

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049982.D
 Acq On : 21 Jul 2018 1:21
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 7/23/2018 2:04:16 PM

Quant Time: Jul 21 05:26:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	549104	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	815100	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	757907	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	411033	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	403222	53.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.86%	
35) Dibromofluoromethane	7.59	113	351806	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
50) Toluene-d8	10.09	98	1273491	51.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.16%	
62) 4-Bromofluorobenzene	12.40	95	443800	51.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	220697	43.87	ug/l	98
3) Chloromethane	2.06	50	302840	40.41	ug/l	98
4) Vinyl Chloride	2.18	62	323893	40.52	ug/l	100
5) Bromomethane	2.56	94	285258	64.37	ug/l	99
6) Chloroethane	2.70	64	221047	42.34	ug/l	99
7) Trichlorofluoromethane	3.01	101	467093	42.50	ug/l	99
8) Diethyl Ether	3.41	74	186634	48.68	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	299471	44.20	ug/l	99
10) Methyl Iodide	3.95	142	392620	43.19	ug/l	98
11) Tert butyl alcohol	4.81	59	119076	221.47	ug/l	100
12) 1,1-Dichloroethene	3.73	96	255722	42.96	ug/l	98
13) Acrolein	3.61	56	56300	162.50	ug/l	99
14) Allyl chloride	4.32	41	429317	45.75	ug/l	99
15) Acrylonitrile	4.99	53	594211	251.29	ug/l	97
16) Acetone	3.82	43	429127	219.61	ug/l	97
17) Carbon Disulfide	4.05	76	659562	37.03	ug/l	100
18) Methyl Acetate	4.33	43	341610	55.73	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	878961	53.66	ug/l	99
20) Methylene Chloride	4.55	84	339415	45.68	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	289759	45.84	ug/l	96
22) Diisopropyl ether	5.96	45	1056376	55.17	ug/l	98
23) Vinyl Acetate	5.90	43	3576226	266.16	ug/l	100
24) 1,1-Dichloroethane	5.85	63	593924	48.31	ug/l	99
25) 2-Butanone	6.84	43	681373	243.99	ug/l	98
26) 2,2-Dichloropropane	6.83	77	354165	37.02	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	351163	50.63	ug/l	97
28) Bromochloromethane	7.19	49	310355	55.90	ug/l	99
29) Tetrahydrofuran	7.22	42	453168	257.59	ug/l	100
30) Chloroform	7.37	83	631696	50.05	ug/l	100
31) Cyclohexane	7.65	56	437964	43.77	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	502640	46.08	ug/l	99
36) 1,1-Dichloropropene	7.79	75	422290	46.59	ug/l	99
37) Ethyl Acetate	6.93	43	306562	49.26	ug/l	99
38) Carbon Tetrachloride	7.77	117	446548	46.00	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	422206	45.10	ug/l	98
40) Benzene	8.04	78	1331988	48.22	ug/l	100
41) Methacrylonitrile	7.18	41	155084	49.71	ug/l	89
42) 1,2-Dichloroethane	8.13	62	464301	50.75	ug/l	99
43) Isopropyl Acetate	8.17	43	584521	53.76	ug/l	99
44) Trichloroethene	8.84	130	343709	47.45	ug/l	99
45) 1,2-Dichloropropane	9.12	63	378372	50.78	ug/l	99
46) Dibromomethane	9.21	93	230666	49.91	ug/l	99
47) Bromodichloromethane	9.40	83	491311	51.41	ug/l	98
48) Methyl methacrylate	9.20	41	279367	51.22	ug/l	99
49) 1,4-Dioxane	9.20	88	75358	973.99	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	1611164	265.08	ug/l	100
52) Toluene	10.16	92	836011	50.74	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	475459	50.31	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	532333	50.97	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	339107	49.82	ug/l	99
56) Ethyl methacrylate	10.43	69	431208	47.30	ug/l	99
57) 1,3-Dichloropropane	10.71	76	556135	51.88	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1053649	245.35	ug/l	99
59) 2-Hexanone	10.75	43	1070835	262.30	ug/l	99
60) Dibromochloromethane	10.90	129	384727	51.54	ug/l	99
61) 1,2-Dibromoethane	11.01	107	328059	51.58	ug/l	99
64) Tetrachloroethene	10.63	164	336197	49.36	ug/l	100
65) Chlorobenzene	11.44	112	932011	48.94	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	365816	49.60	ug/l	99
67) Ethyl Benzene	11.51	91	1561079	50.53	ug/l	99
68) m/p-Xylenes	11.62	106	1211818	103.63	ug/l	99
69) o-Xylene	11.95	106	585046	52.09	ug/l	97
70) Styrene	11.97	104	1000246	54.98	ug/l	100
71) Bromoform	12.13	173	272141	51.58	ug/l	98
73) Isopropylbenzene	12.25	105	1554514	49.79	ug/l	100
74) N-amyl acetate	12.07	43	488499	51.40	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	432955	46.28	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	343385m	44.54	ug/l	
77) Bromobenzene	12.53	156	420010	48.72	ug/l	98
78) n-propylbenzene	12.59	91	1808779	50.96	ug/l	100
79) 2-Chlorotoluene	12.68	91	1096325	50.30	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1297111	51.83	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	113983	46.23	ug/l	100
82) 4-Chlorotoluene	12.78	91	1110142	50.77	ug/l	99
83) tert-Butylbenzene	12.99	119	1098122	49.97	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1349964	53.25	ug/l	99
85) sec-Butylbenzene	13.17	105	1500120	51.65	ug/l	100
86) p-Isopropyltoluene	13.29	119	1304070	52.67	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	732519	48.76	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	726106	48.21	ug/l	99
89) n-Butylbenzene	13.62	91	1063680	52.03	ug/l	100
90) Hexachloroethane	13.88	117	249211	44.85	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	730667	49.47	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	67792	46.90	ug/l	99

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Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	373586	46.16	ug/l	100
94) Hexachlorobutadiene	15.01	225	221005	45.66	ug/l	100
95) Naphthalene	15.14	128	820204	42.84	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	373174	52.67	ug/l	99

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

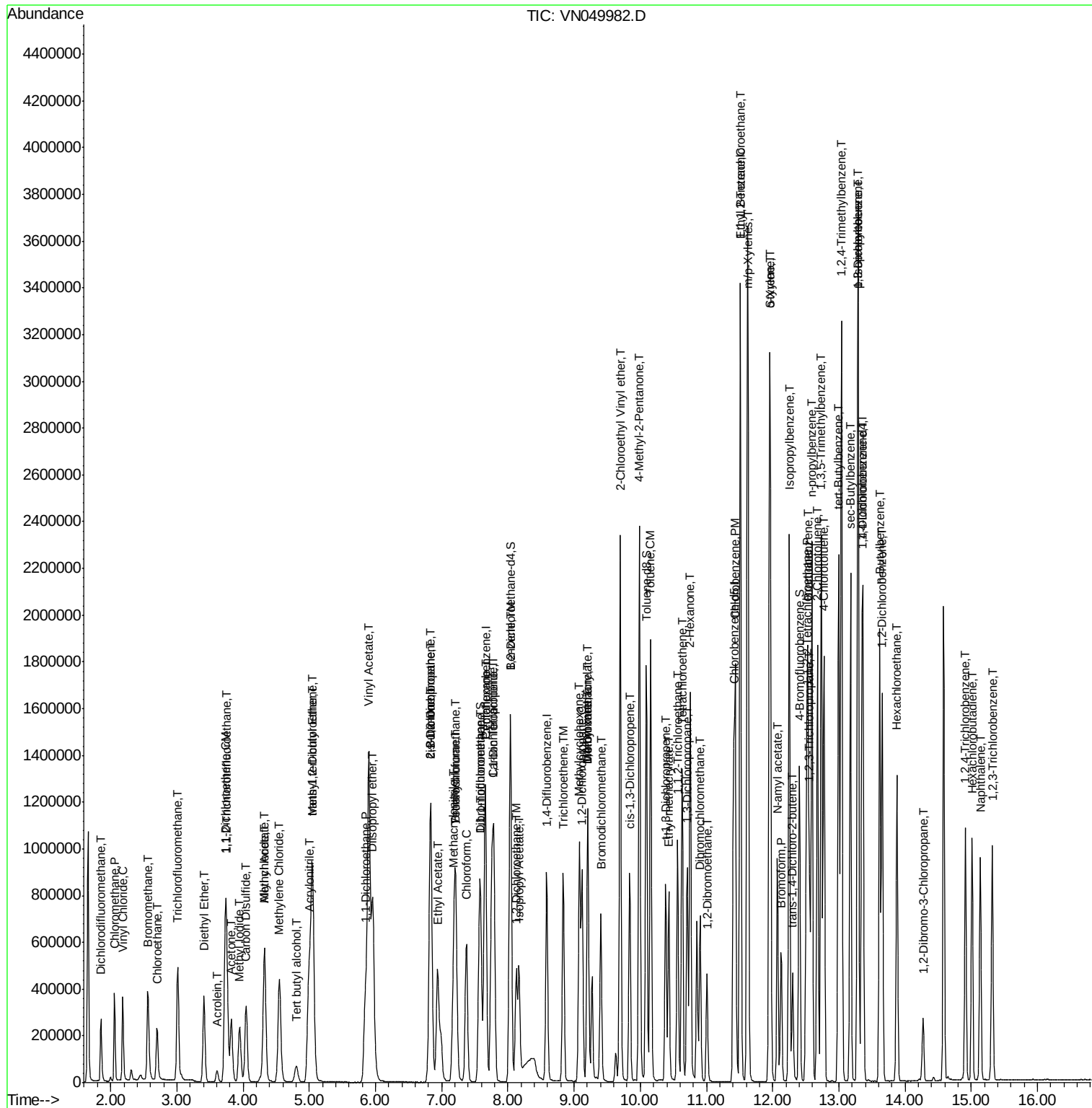
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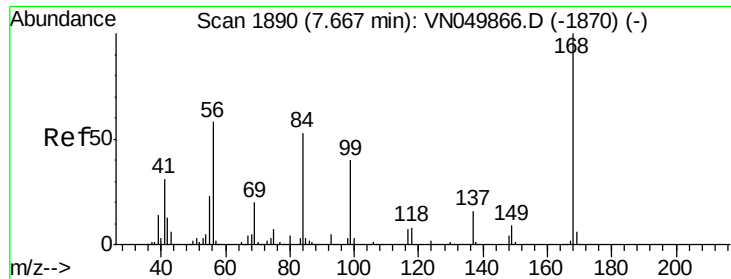
Instrument :
 MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:168 Resp: 549104

Ion Ratio Lower Upper

168 100

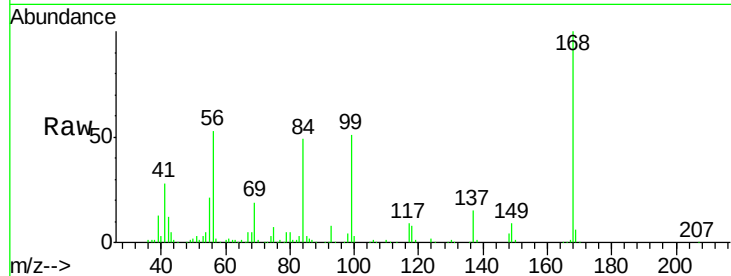
99 50.6 40.6 61.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

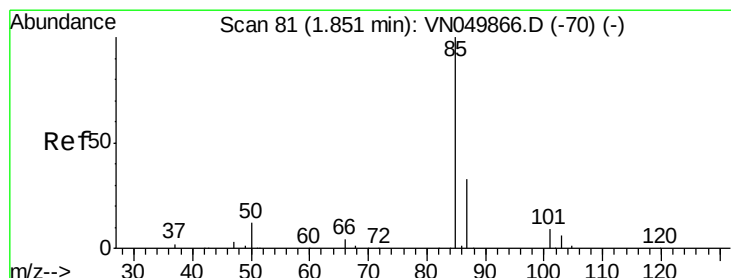
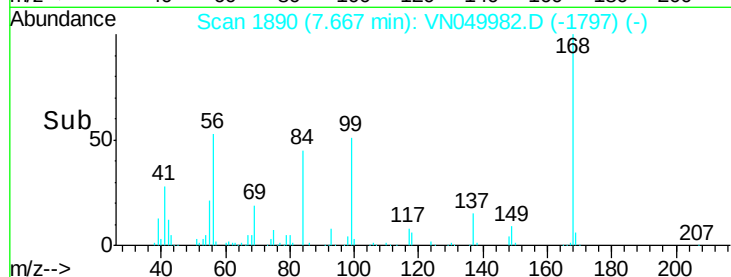
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 43.87 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049982.D

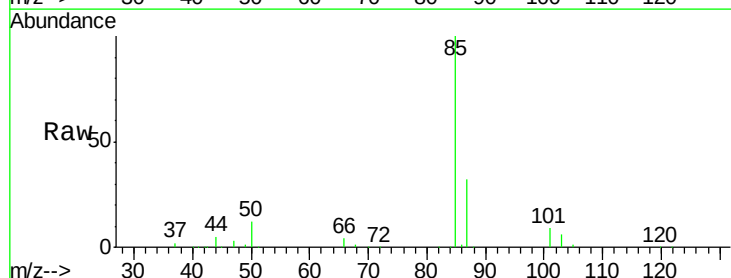
Acq: 21 Jul 2018 1:21

Tgt Ion: 85 Resp: 220697

Ion Ratio Lower Upper

85 100

87 32.0 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

150000

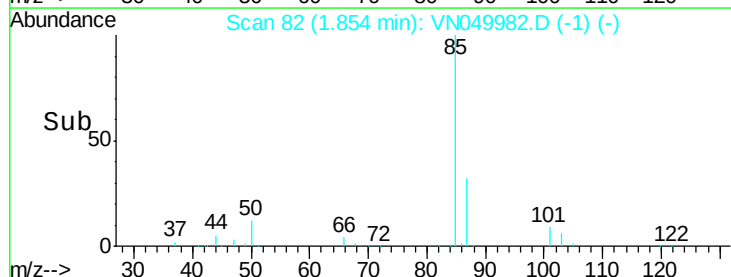
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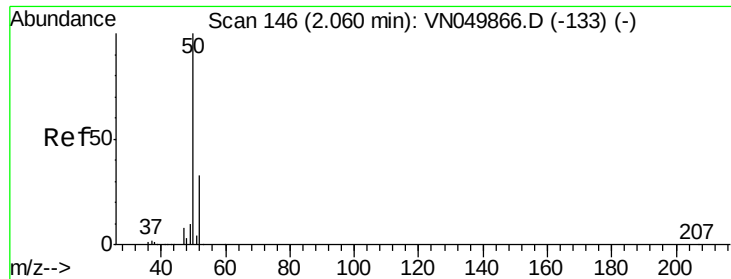
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 40.41 ug/l

RT: 2.06 min Scan# 146

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 50 Resp: 302840

Ion Ratio Lower Upper

50 100

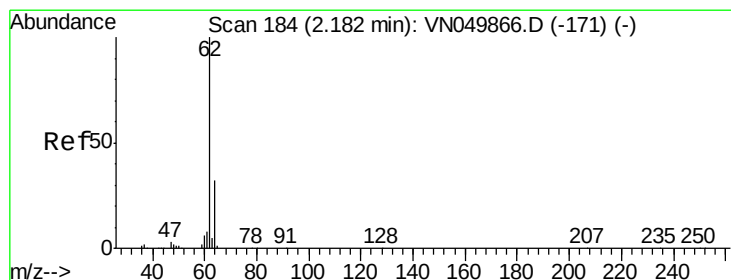
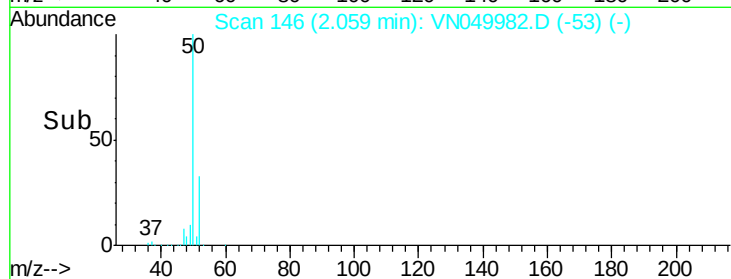
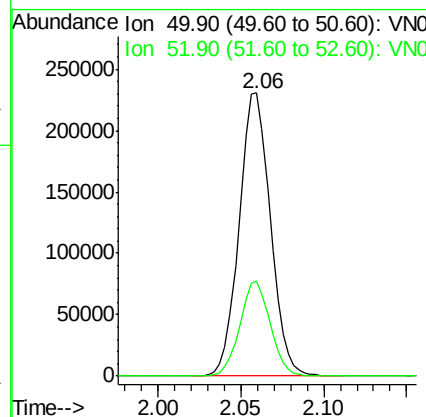
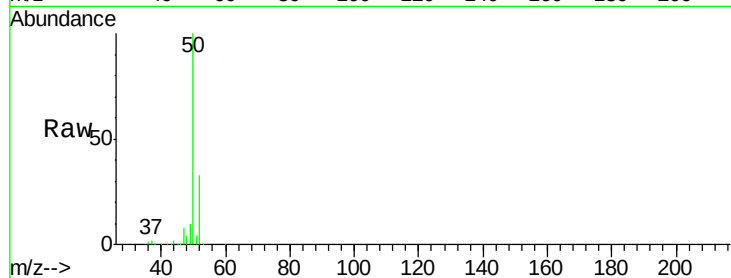
52 33.5 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 40.52 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049982.D

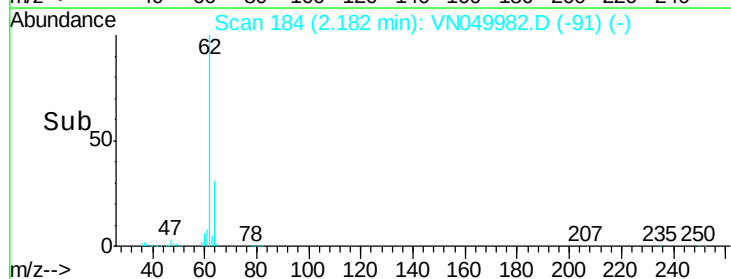
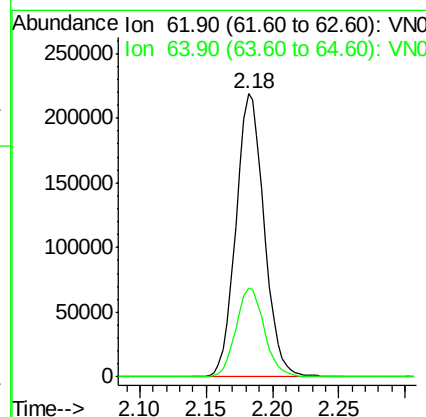
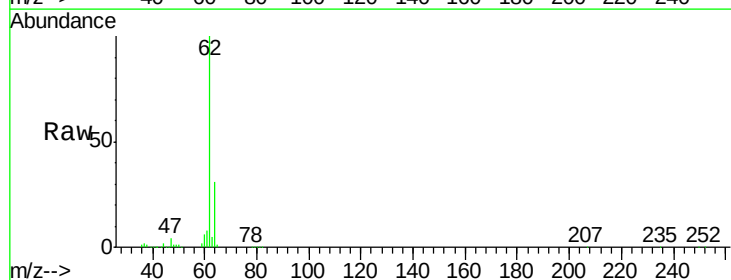
Acq: 21 Jul 2018 1:21

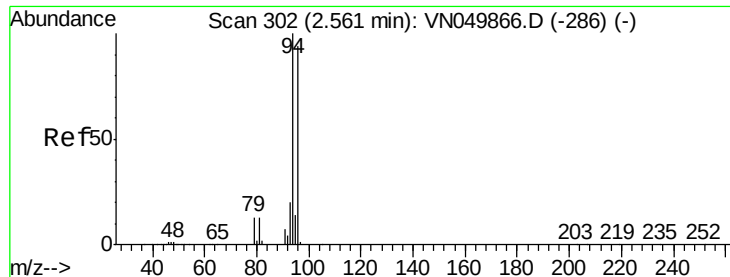
Tgt Ion: 62 Resp: 323893

Ion Ratio Lower Upper

62 100

64 31.5 25.4 38.0





#5

Bromomethane

Concen: 64.37 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 285258

Ion Ratio Lower Upper

94 100

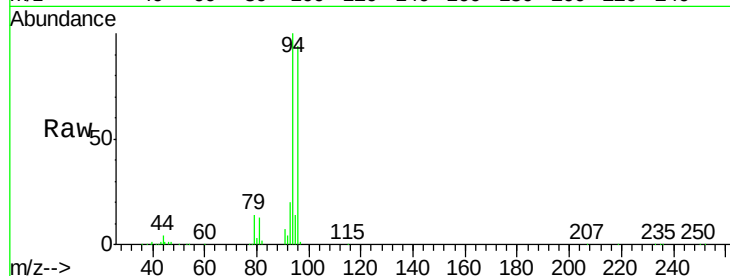
96 93.7 75.7 113.5

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN049982.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN049982.D (-209) (-)

2.56

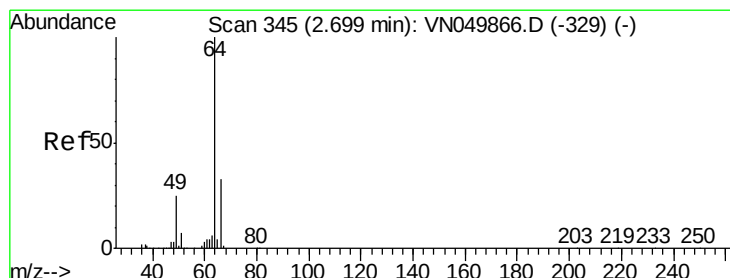
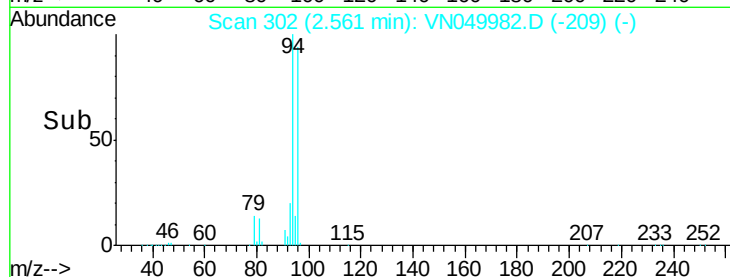
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 42.34 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049982.D

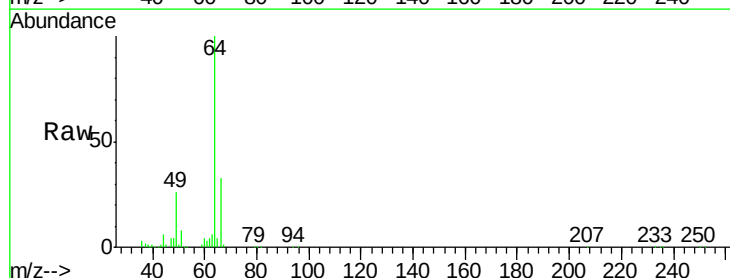
Acq: 21 Jul 2018 1:21

Tgt Ion: 64 Resp: 221047

Ion Ratio Lower Upper

64 100

66 32.5 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN049982.D (-252) (-)

Ion 65.90 (65.60 to 66.60): VN049982.D (-252) (-)

2.70

120000

100000

80000

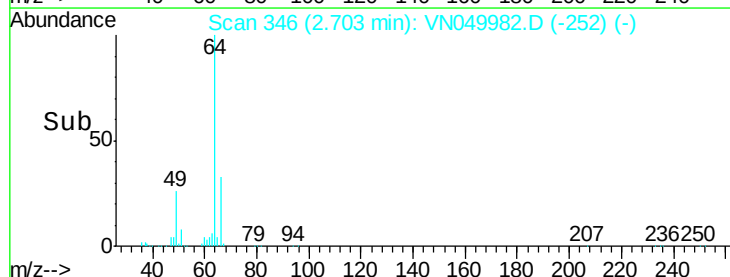
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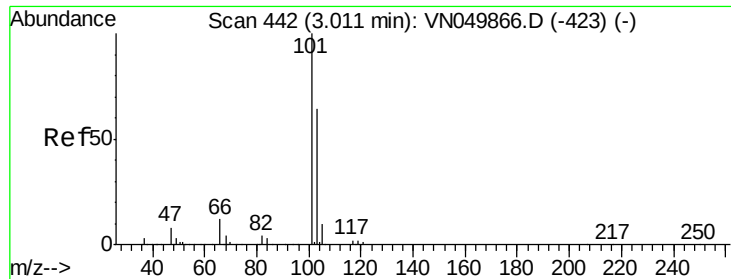
40000

20000

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Time-->





#7

Trichlorofluoromethane

Concen: 42.50 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:101 Resp: 467093

Ion Ratio Lower Upper

101 100

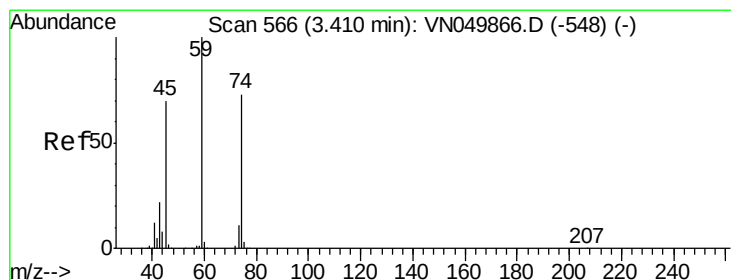
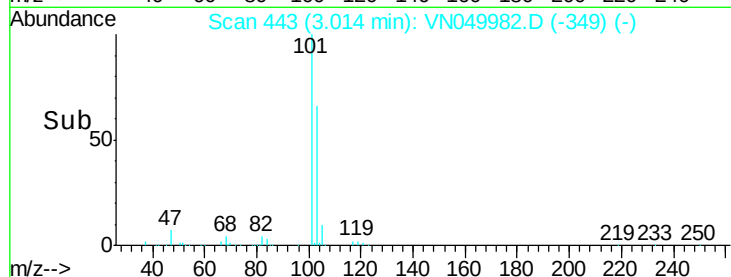
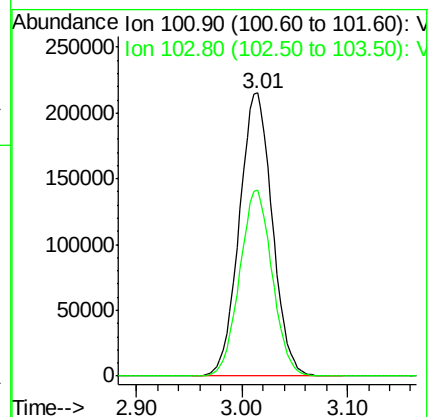
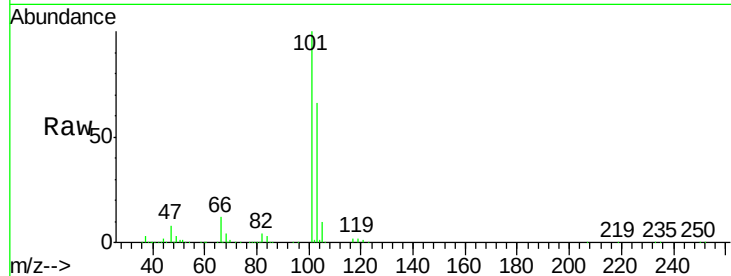
103 65.6 52.8 79.2

Manual Integrations

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MMDadoda

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#8

Diethyl Ether

Concen: 48.68 ug/l

RT: 3.41 min Scan# 566

Delta R.T. -0.00 min

Lab File: VN049982.D

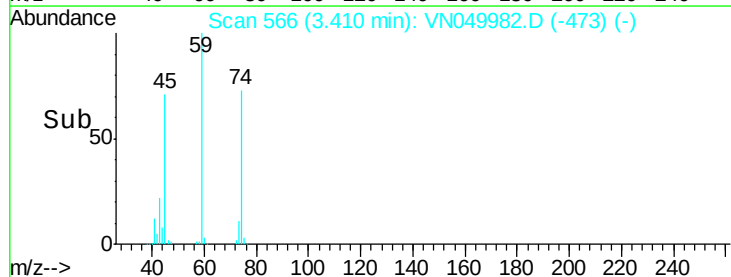
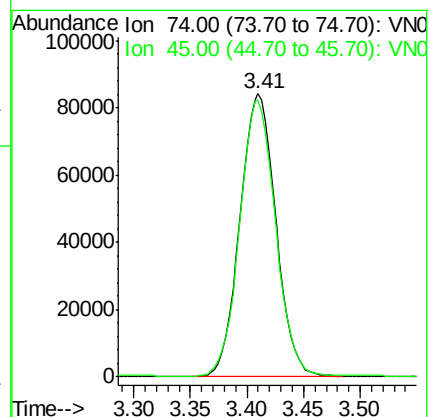
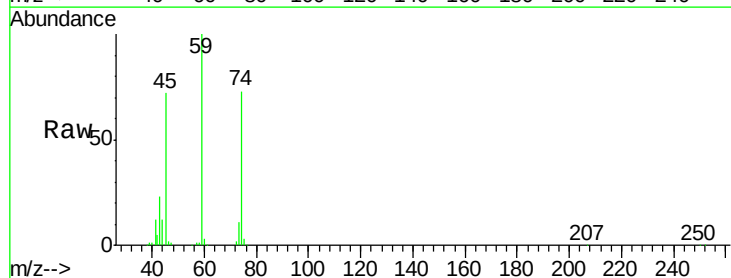
Acq: 21 Jul 2018 1:21

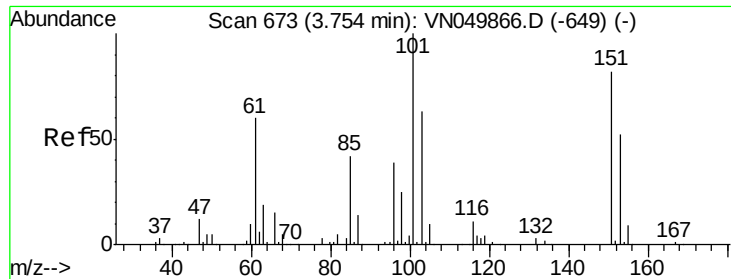
Tgt Ion: 74 Resp: 186634

Ion Ratio Lower Upper

74 100

45 97.2 48.4 145.2





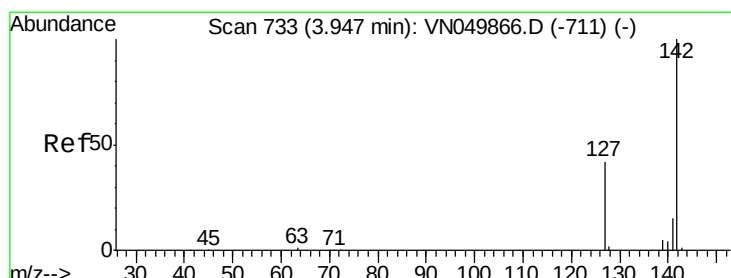
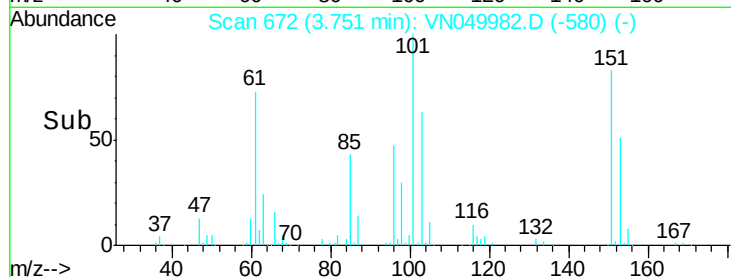
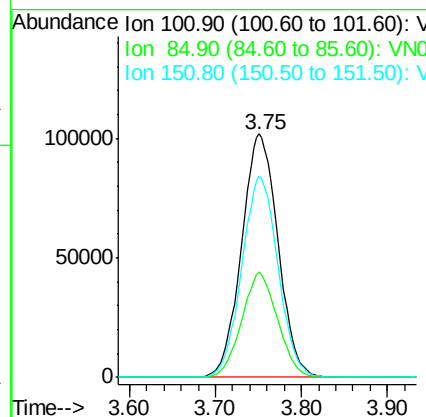
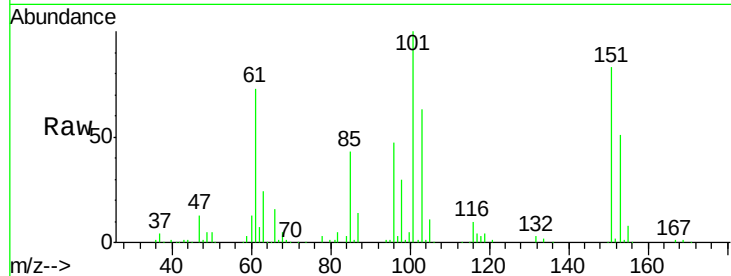
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 44.20 ug/l
 RT: 3.75 min Scan# 672
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	299471		
85	42.4	34.4	51.6	
151	82.1	66.2	99.4	

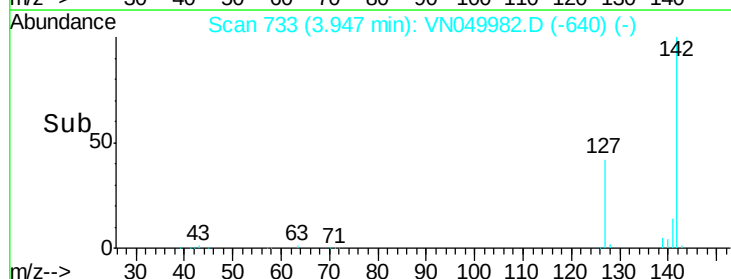
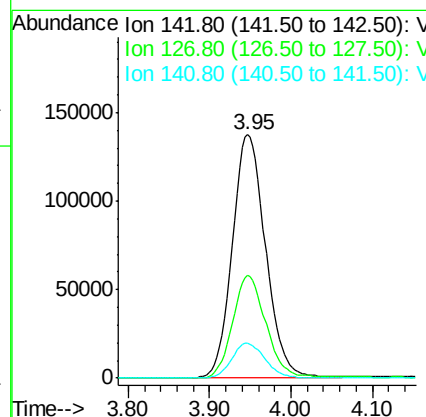
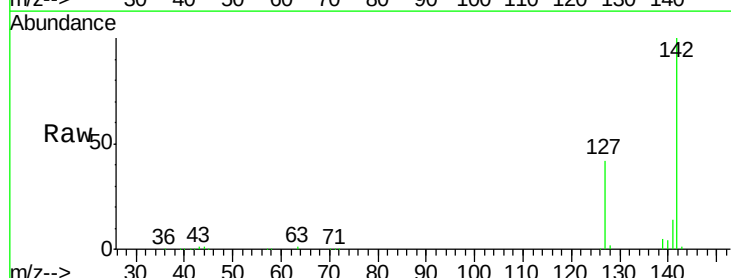
Manual Integrations
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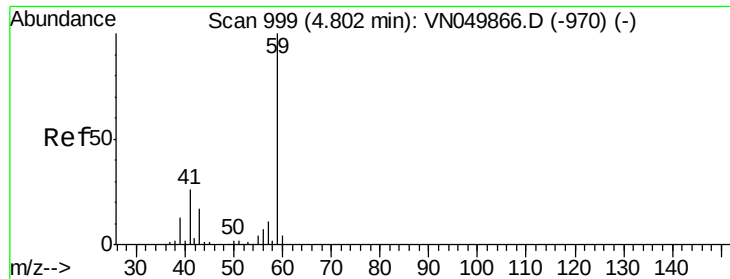
MMDadoda
 7/23/2018 2:04:16 PM



#10
 Methyl Iodide
 Concen: 43.19 ug/l
 RT: 3.95 min Scan# 733
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	392620		
127	42.3	32.5	48.7	
141	14.4	11.1	16.7	





#11

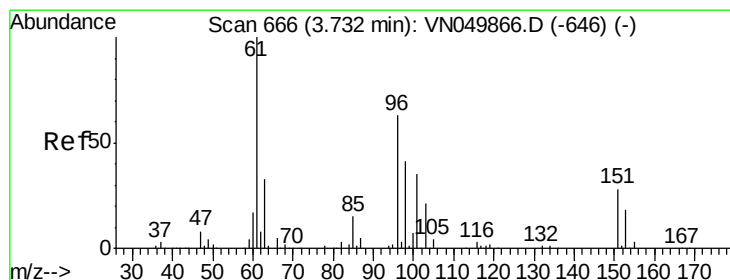
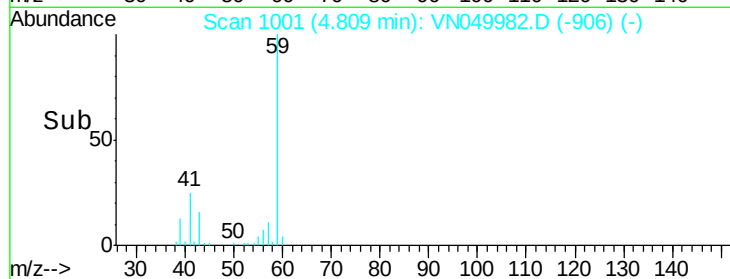
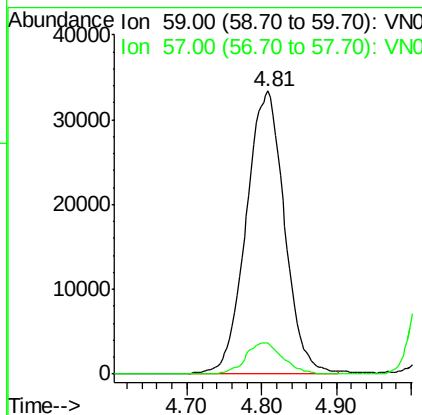
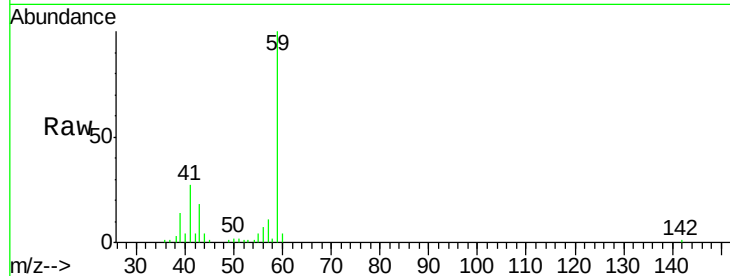
Tert butyl alcohol
 Concen: 221.47 ug/l
 RT: 4.81 min Scan# 1001
 Delta R.T. 0.01 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
59	100			
57	10.8	8.5	12.7	

Manual Integrations
 APPROVED

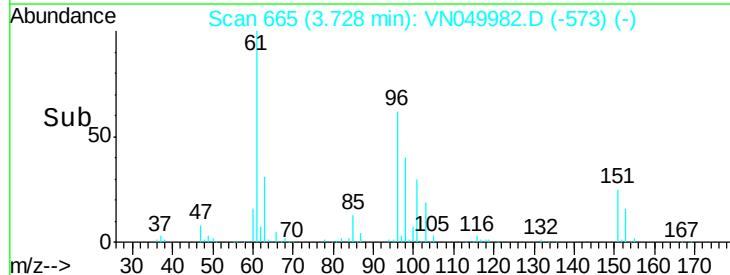
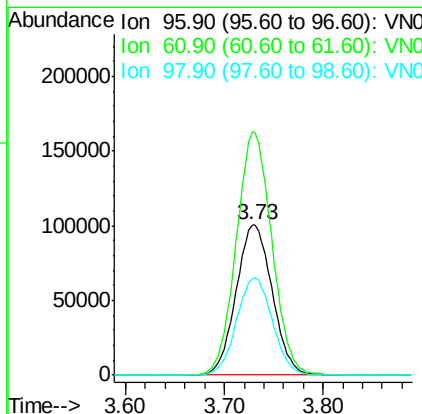
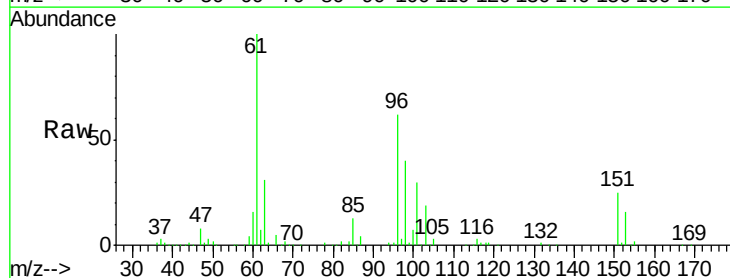
MMDadoda
 7/23/2018 2:04:16 PM

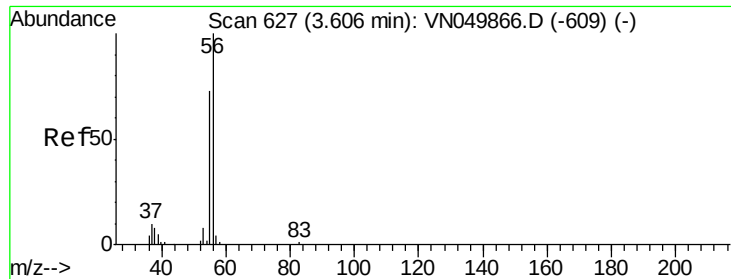


#12

1,1-Dichloroethene
 Concen: 42.96 ug/l
 RT: 3.73 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion	Ion	Ratio	Lower	Upper
96	100			
61	162.0	126.5	189.7	
98	64.6	51.0	76.6	





#13

Acrolein

Concen: 162.50 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 56300

Ion Ratio Lower Upper

56 100

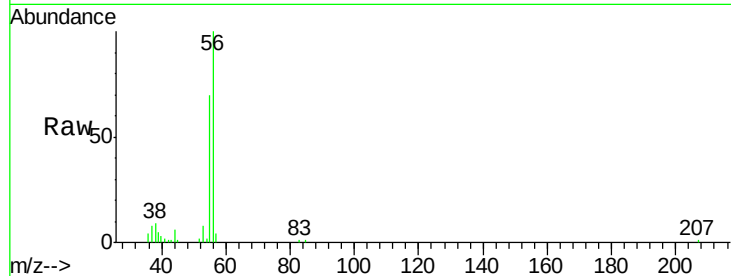
55 69.1 55.8 83.8

Manual Integrations

APPROVED

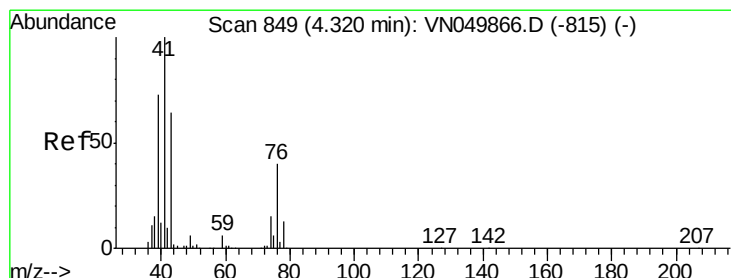
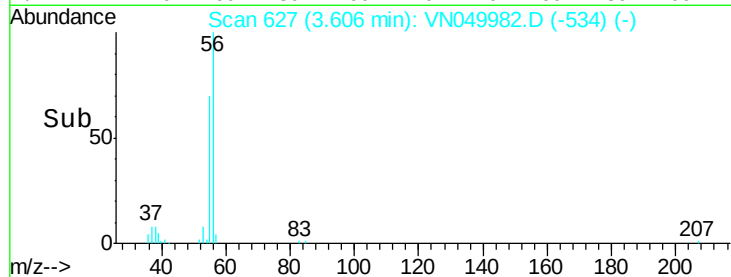
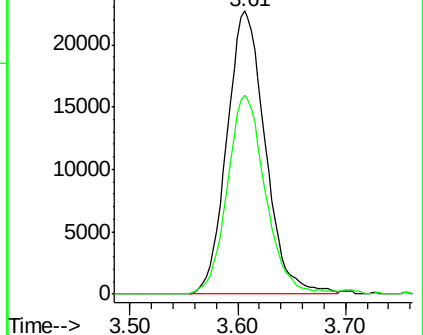
MMDadoda

7/23/2018 2:04:16 PM



Abundance Ion 56.00 (55.70 to 56.70): VN049866.D (-609) (-)

Ion 55.00 (54.70 to 55.70): VN049866.D (-609) (-)



#14

Allyl chloride

Concen: 45.75 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

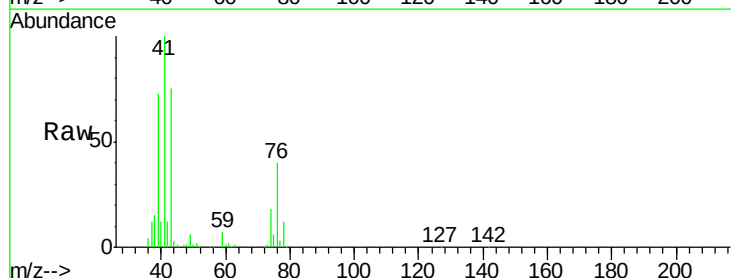
Tgt Ion: 41 Resp: 429317

Ion Ratio Lower Upper

41 100

39 67.2 53.2 79.8

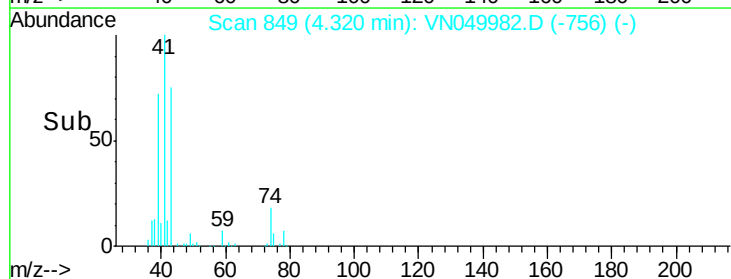
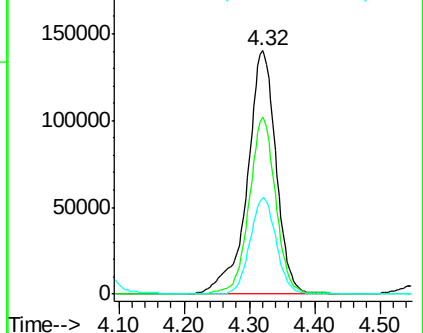
76 35.8 29.0 43.6

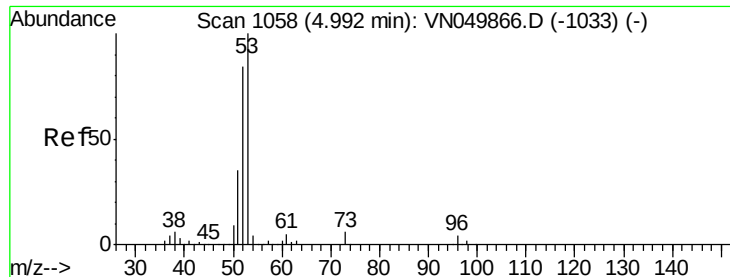


Abundance Ion 41.00 (40.70 to 41.70): VN049866.D (-815) (-)

Ion 39.00 (38.70 to 39.70): VN049866.D (-815) (-)

Ion 75.90 (75.60 to 76.60): VN049866.D (-815) (-)





#15

Acrylonitrile

Concen: 251.29 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

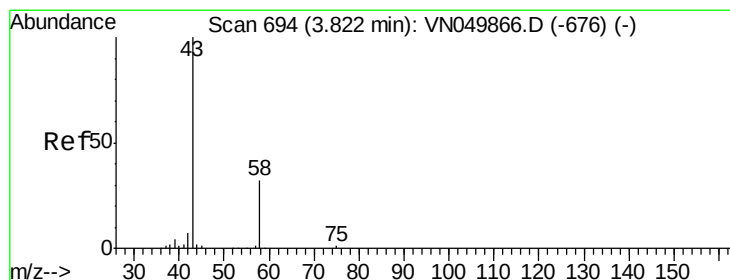
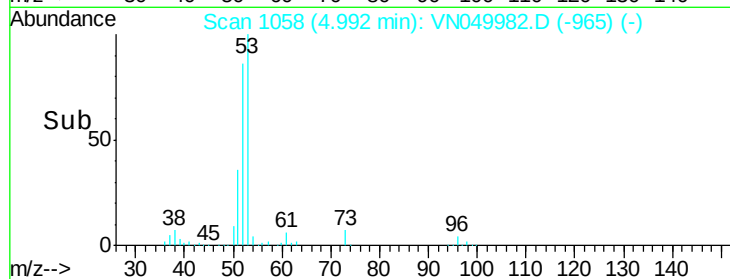
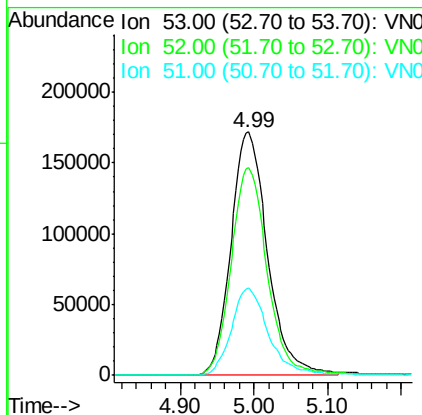
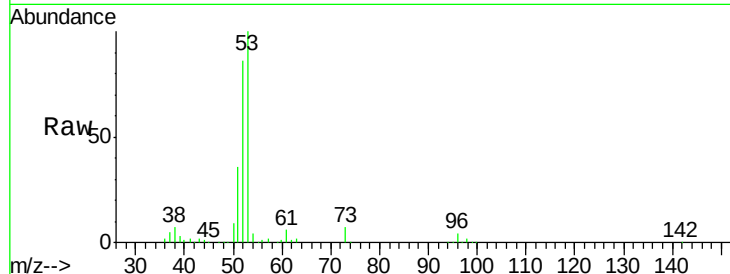
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	594211
Ion	Ratio	Lower	Upper
53	100		
52	84.0	64.8	97.2
51	36.4	28.9	43.3

Manual Integrations
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#16

Acetone

Concen: 219.61 ug/l

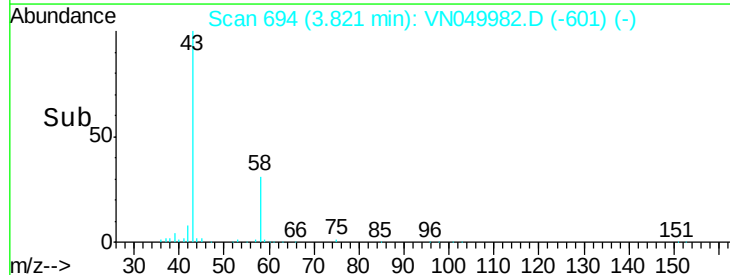
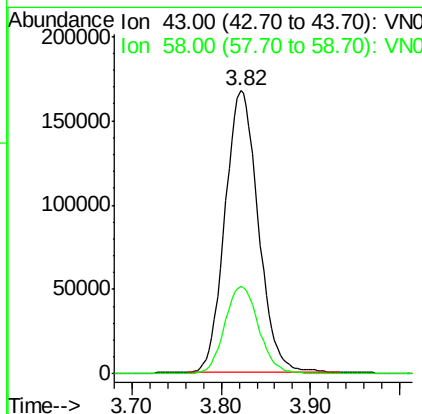
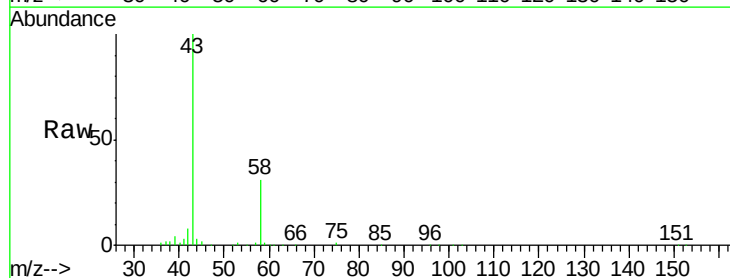
RT: 3.82 min Scan# 694

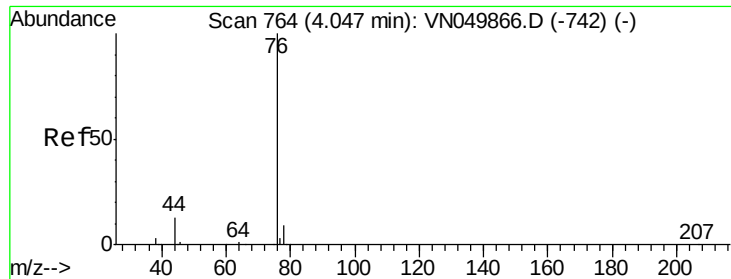
Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Tgt Ion:	43	Resp:	429127
Ion	Ratio	Lower	Upper
43	100		
58	30.9	25.9	38.9





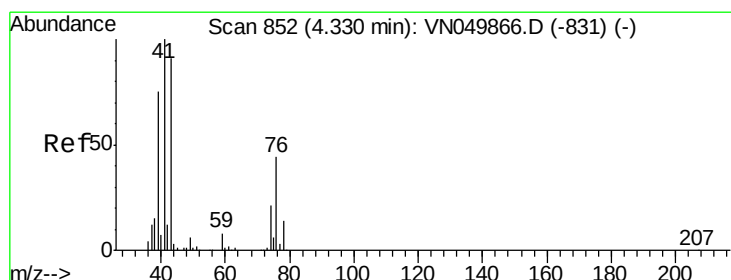
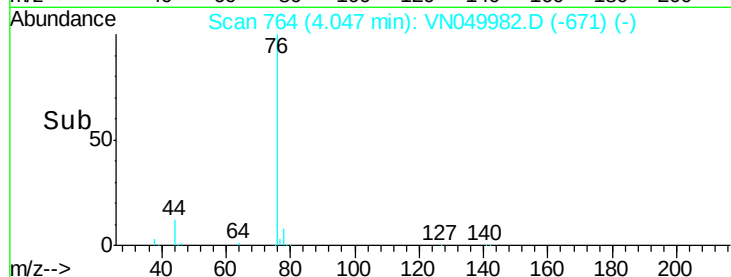
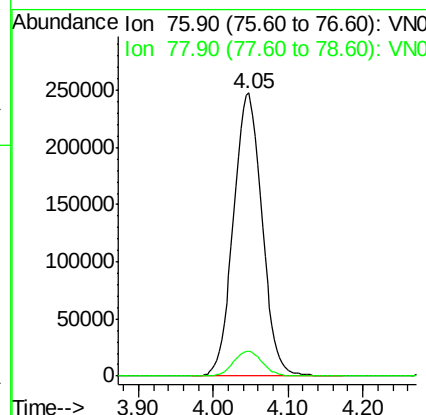
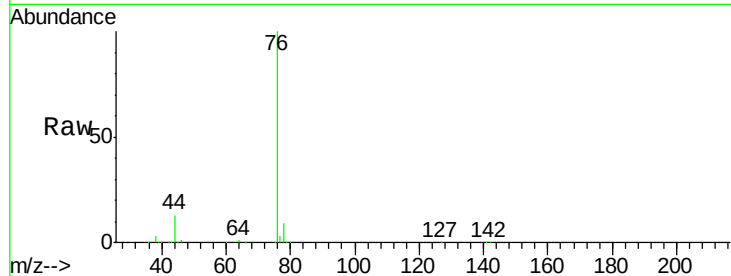
#17
Carbon Disulfide
Concen: 37.03 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

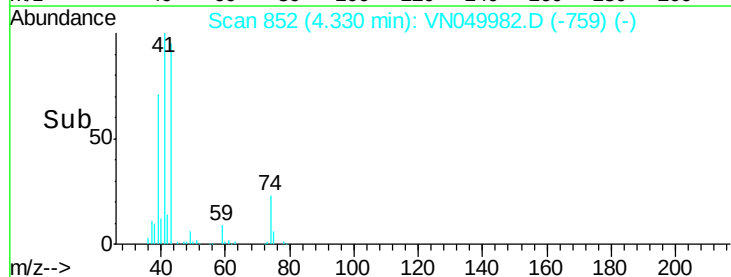
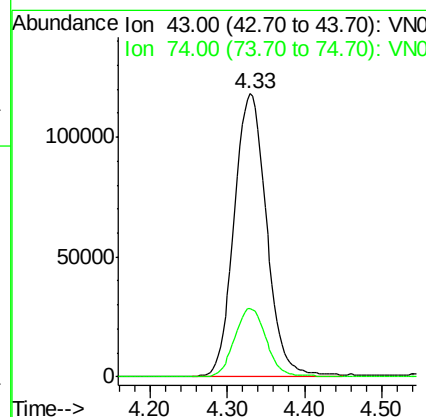
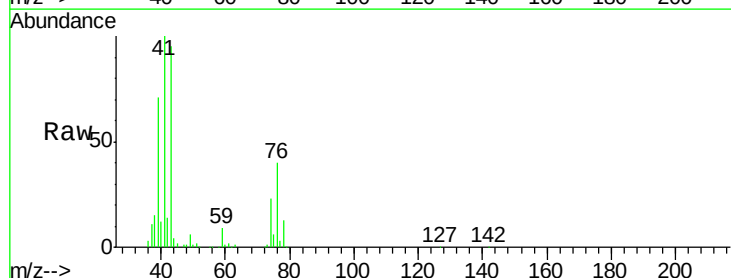
Manual Integrations
APPROVED

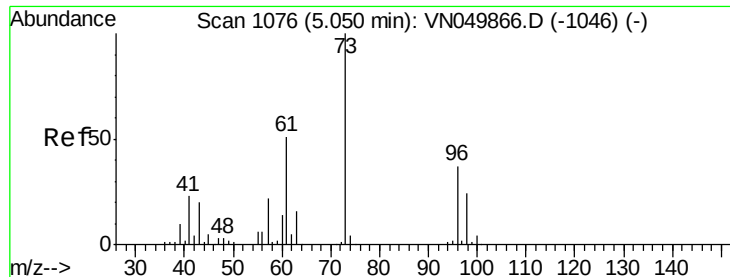
MMDadoda
7/23/2018 2:04:16 PM



#18
Methyl Acetate
Concen: 55.73 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.8	19.8	29.8





#19

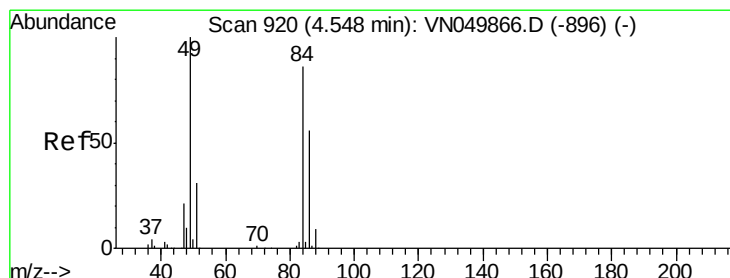
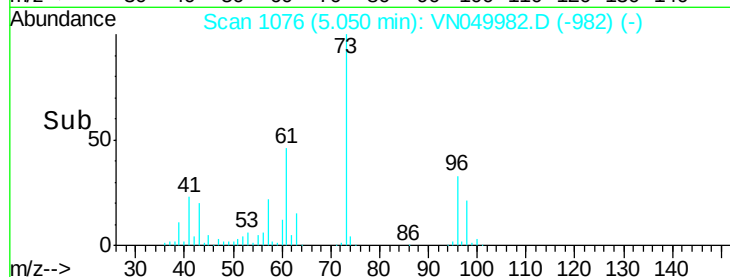
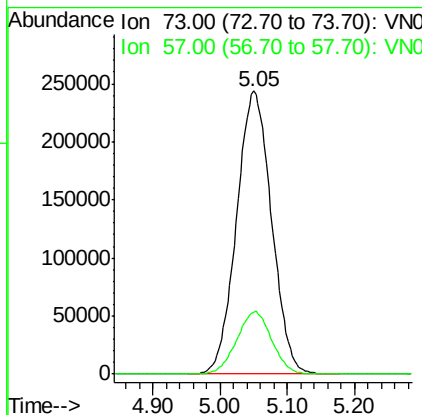
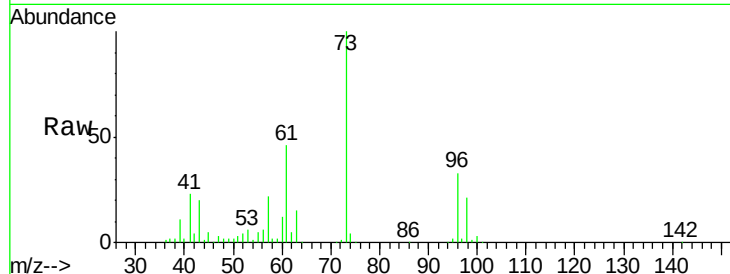
Methyl tert-butyl Ether
 Concen: 53.66 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. 0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	73	Resp	878961
Ion Ratio	Lower	Upper	
73	100		
57	22.0	18.1	27.1

Manual Integrations
 APPROVED

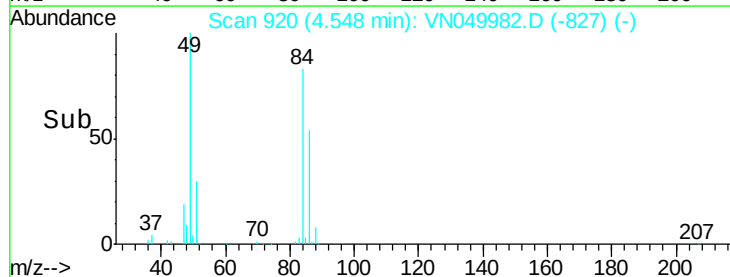
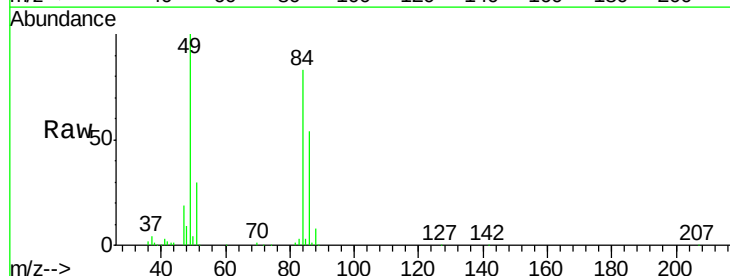
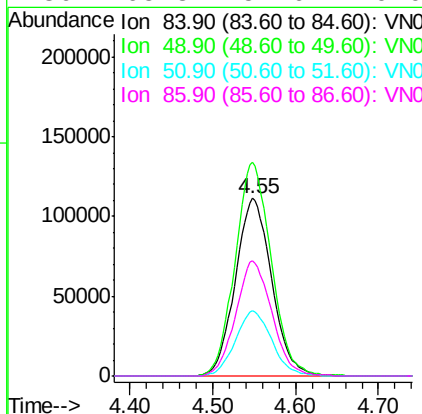
MMDadoda
 7/23/2018 2:04:16 PM

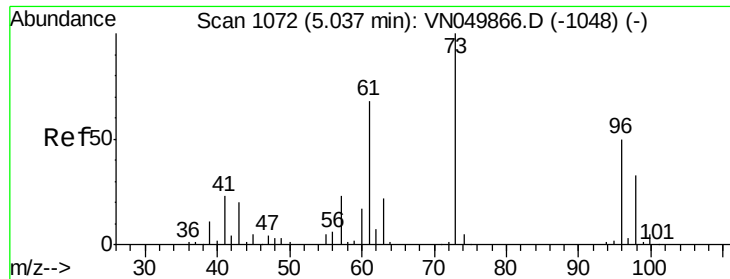


#20

Methylene Chloride
 Concen: 45.68 ug/l
 RT: 4.55 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion	84	Resp	339415
Ion Ratio	Lower	Upper	
84	100		
49	120.5	95.4	143.2
51	36.5	28.4	42.6
86	65.3	52.6	79.0





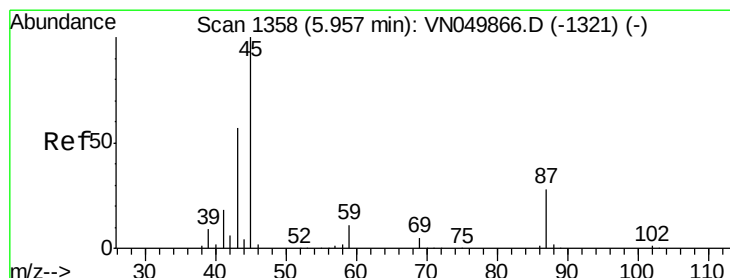
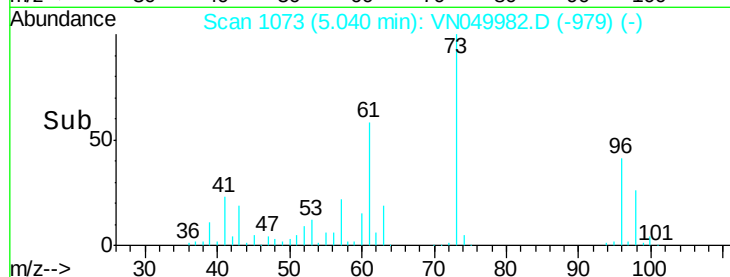
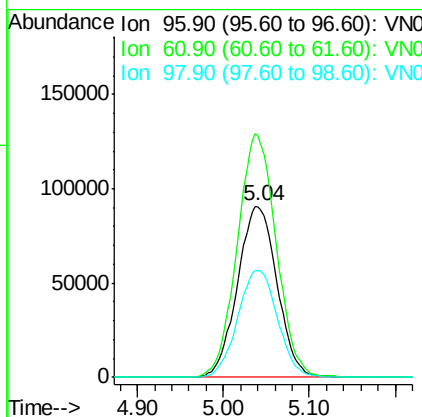
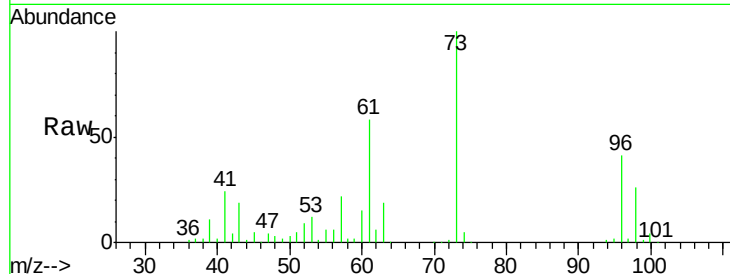
#21
trans-1,2-Dichloroethene
Concen: 45.84 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.6	109.0	163.6
98	62.6	51.1	76.7

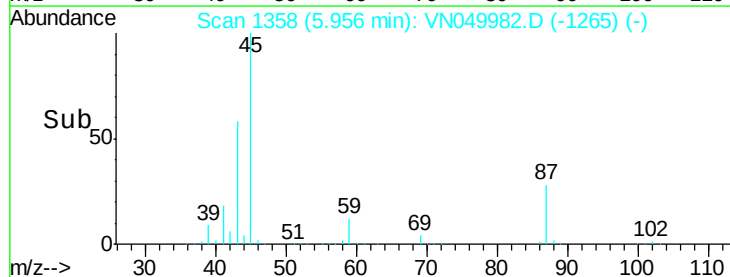
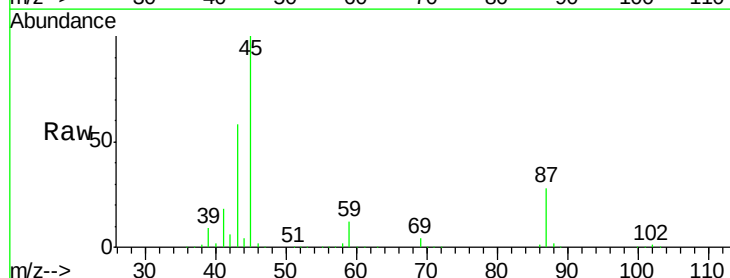
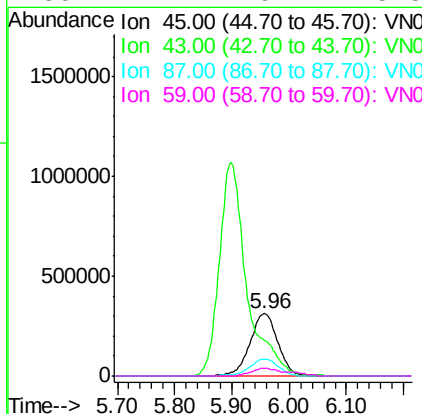
Manual Integrations
APPROVED

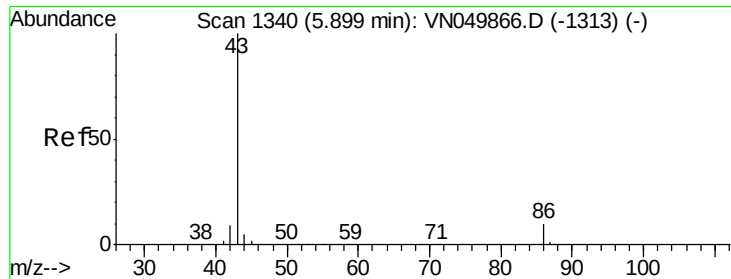
MMDadoda
7/23/2018 2:04:16 PM



#22
Diisopropyl ether
Concen: 55.17 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.9	48.1	72.1
87	27.6	22.6	34.0
59	12.4	9.2	13.8





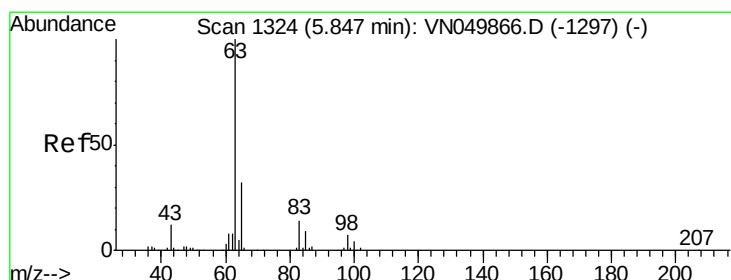
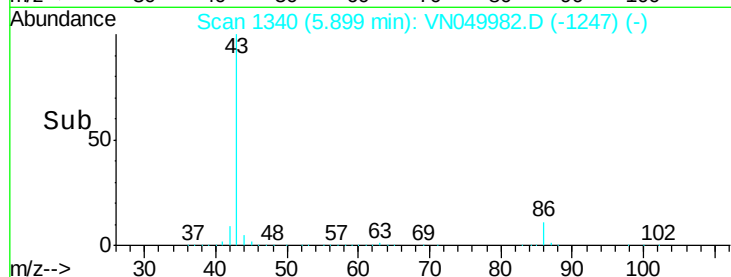
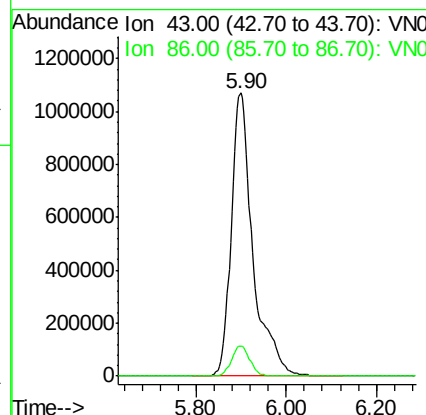
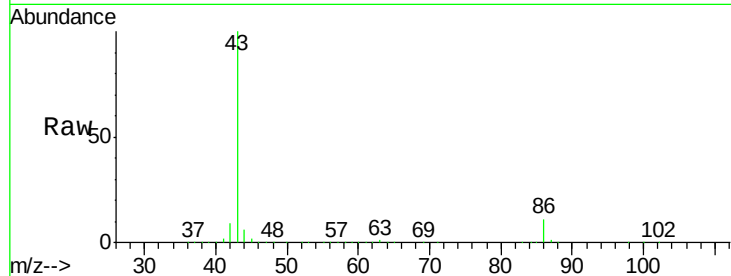
#23
 Vinyl Acetate
 Concen: 266.16 ug/l
 RT: 5.90 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 3576226
 Ion Ratio Lower Upper
 43 100
 86 10.6 8.4 12.6

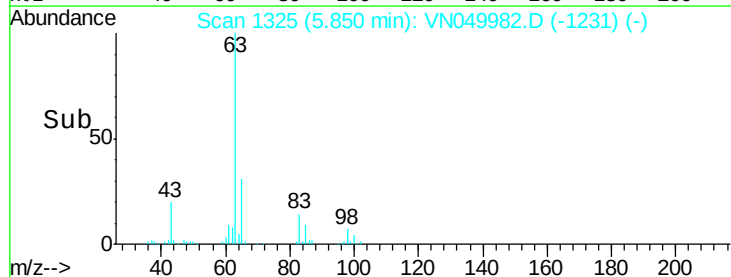
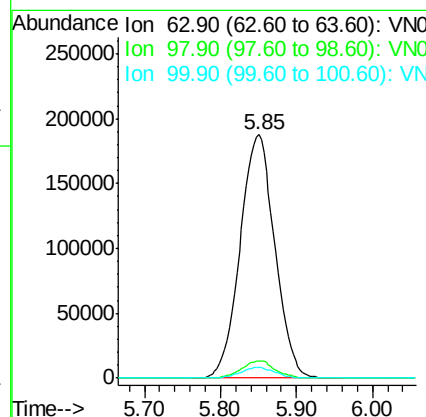
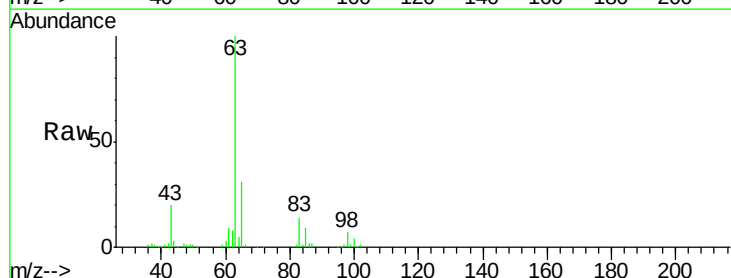
Manual Integrations
 APPROVED

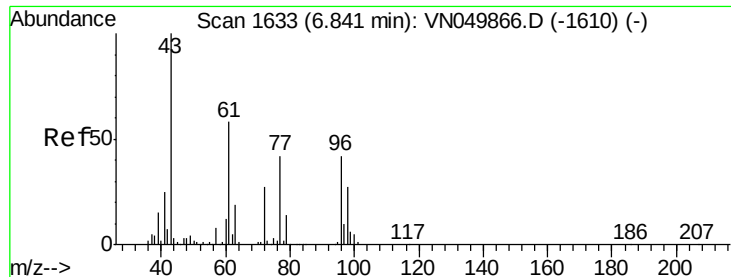
MMDadoda
 7/23/2018 2:04:16 PM



#24
 1,1-Dichloroethane
 Concen: 48.31 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion: 63 Resp: 593924
 Ion Ratio Lower Upper
 63 100
 98 7.0 3.4 10.2
 100 4.3 2.2 6.6





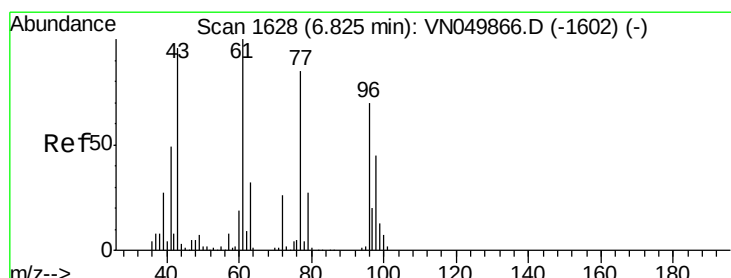
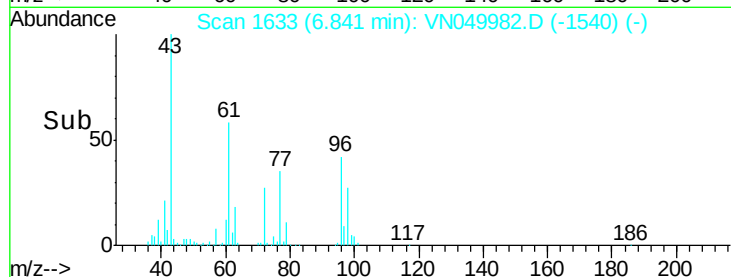
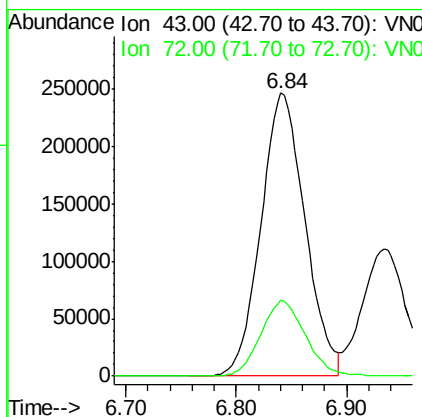
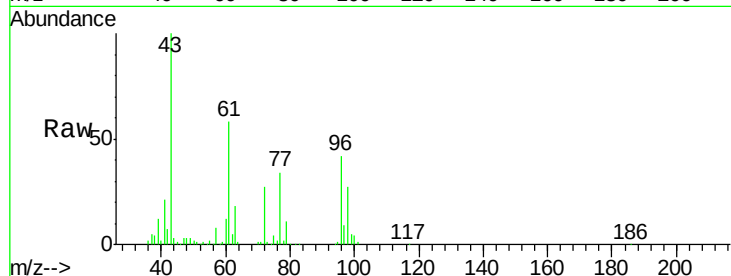
#25
2-Butanone
Concen: 243.99 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 681373
Ion Ratio Lower Upper
43 100
72 26.8 22.1 33.1

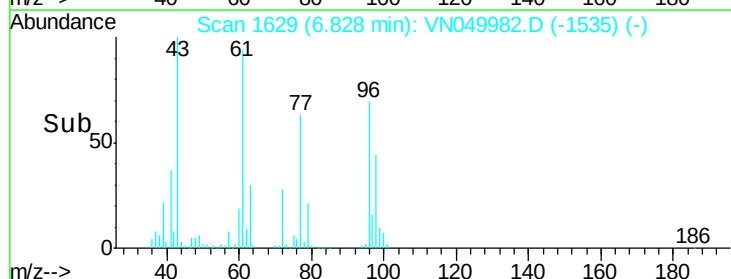
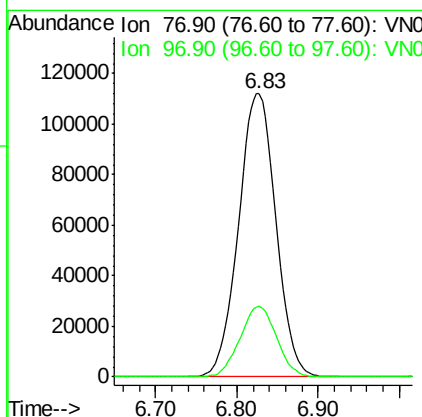
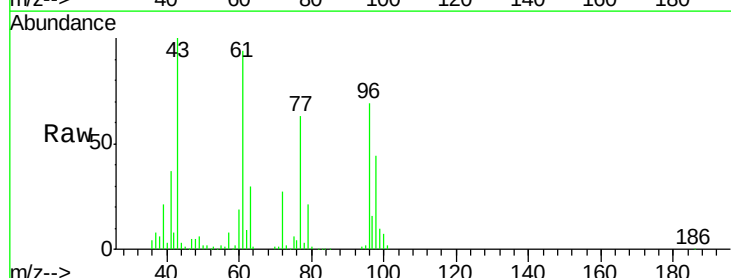
Manual Integrations
APPROVED

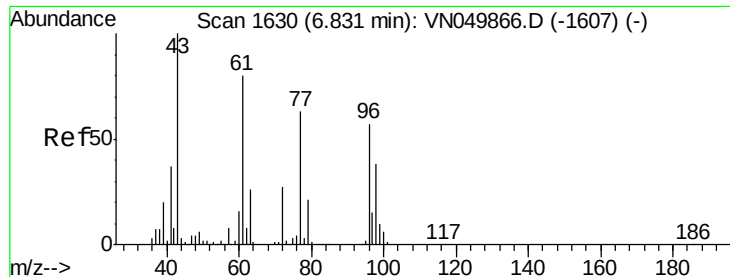
MMDadoda
7/23/2018 2:04:16 PM



#26
2,2-Dichloropropane
Concen: 37.02 ug/l
RT: 6.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion: 77 Resp: 354165
Ion Ratio Lower Upper
77 100
97 24.4 11.9 35.5





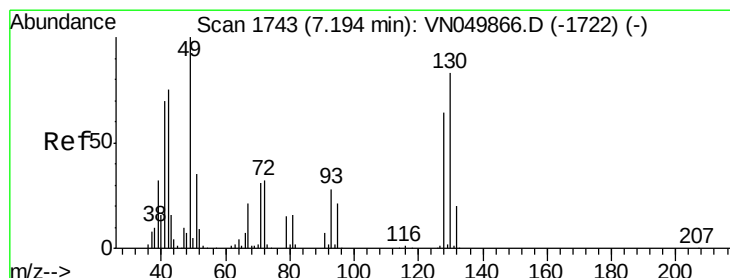
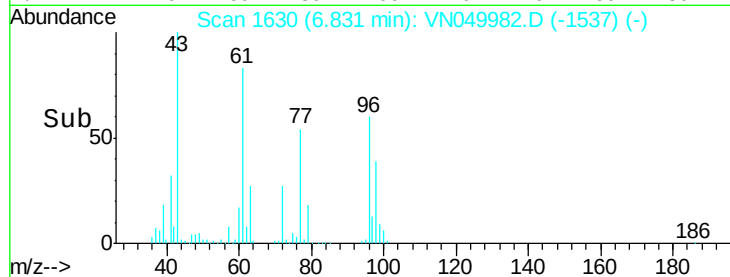
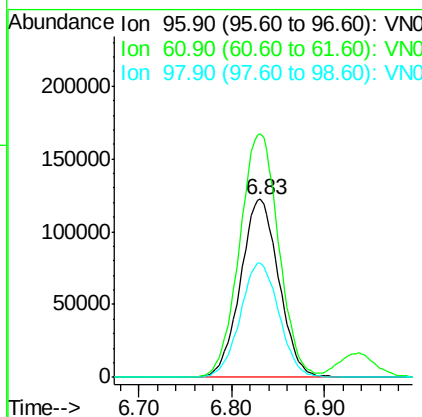
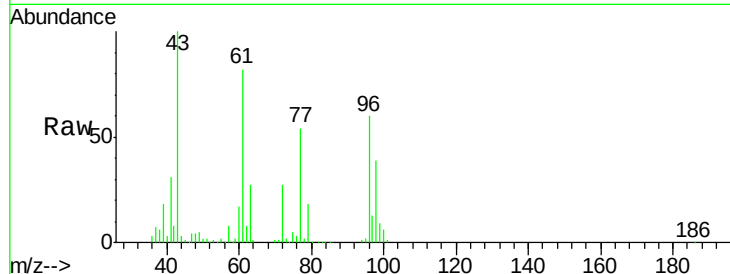
#27
 cis-1,2-Dichloroethene
 Concen: 50.63 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	139.6	0.0	289.0	
98	64.9	0.0	130.2	

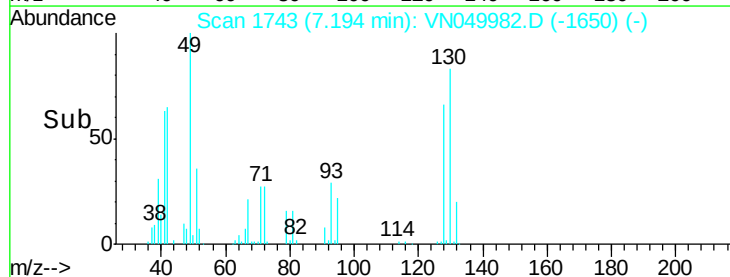
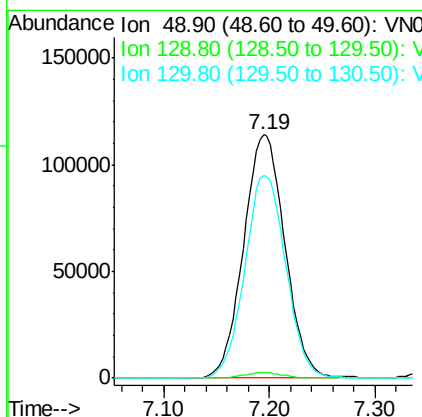
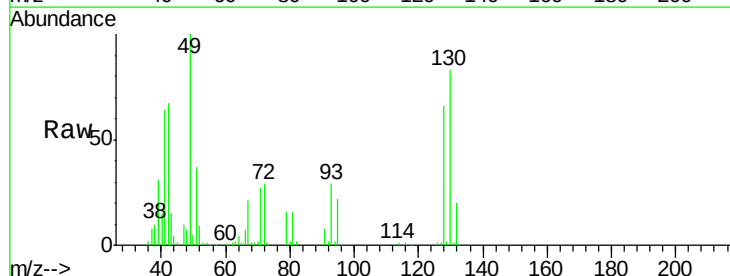
Manual Integrations
 APPROVED

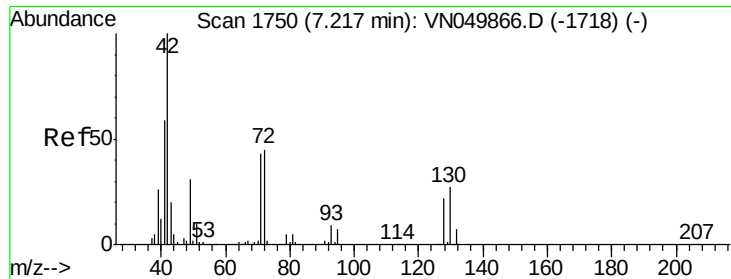
MMDadoda
 7/23/2018 2:04:16 PM



#28
 Bromochloromethane
 Concen: 55.90 ug/l
 RT: 7.19 min Scan# 1743
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.1	0.0	4.2	
130	83.0	65.5	98.3	





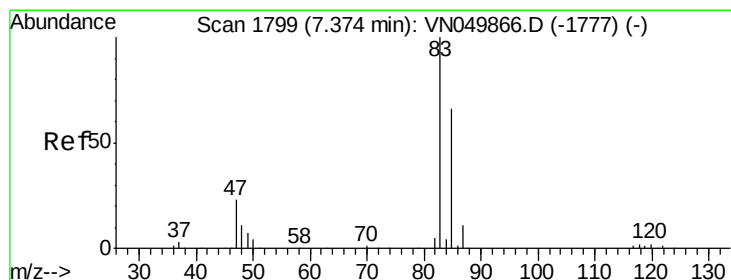
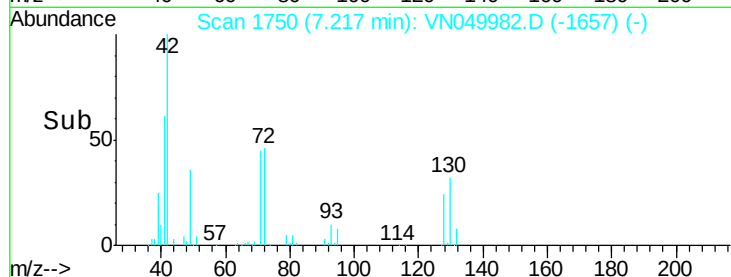
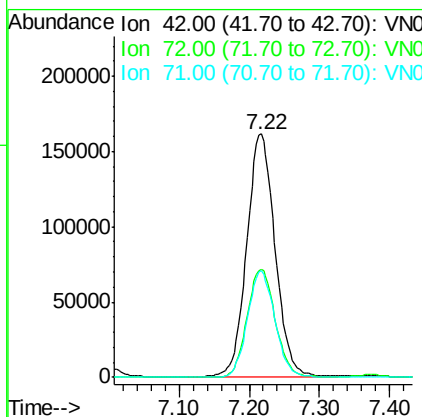
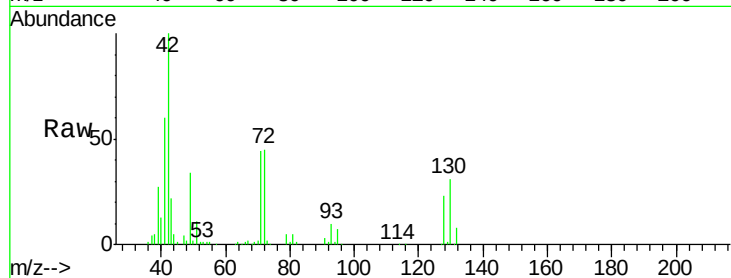
#29
Tetrahydrofuran
Concen: 257.59 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.4	35.6	53.4
71	42.3	34.0	51.0

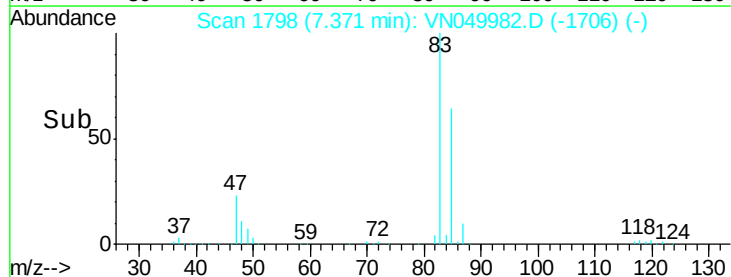
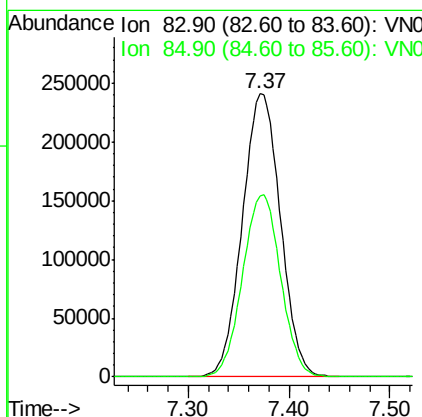
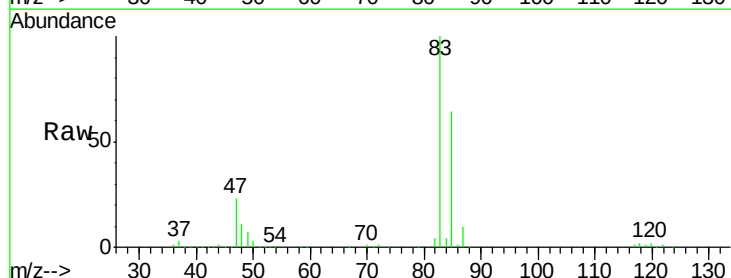
Manual Integrations
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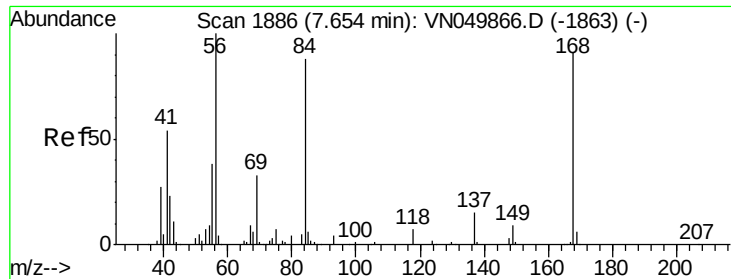
MMDadoda
7/23/2018 2:04:16 PM



#30
Chloroform
Concen: 50.05 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.4	77.2





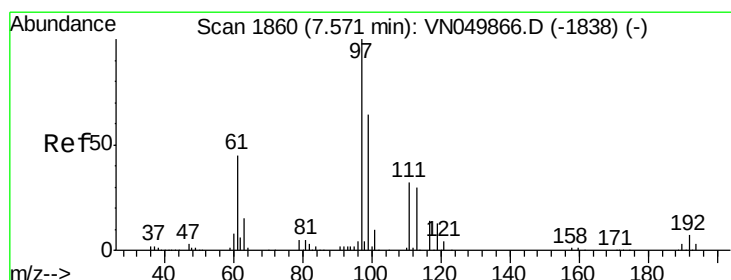
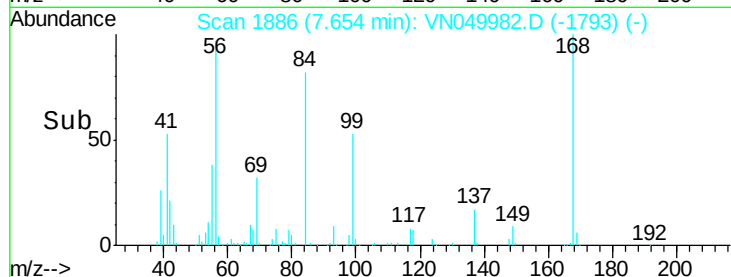
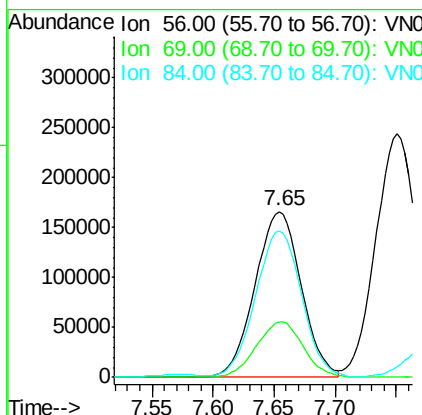
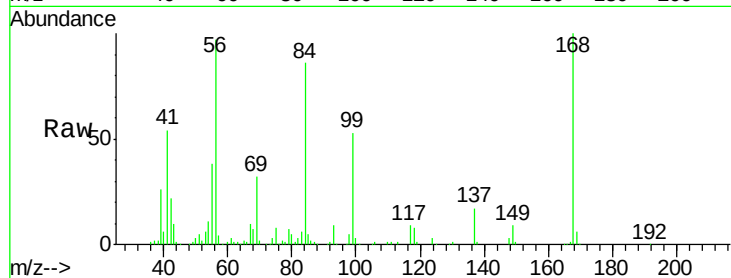
#31
Cyclohexane
Concen: 43.77 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.2	26.6	40.0
84	86.7	69.0	103.6

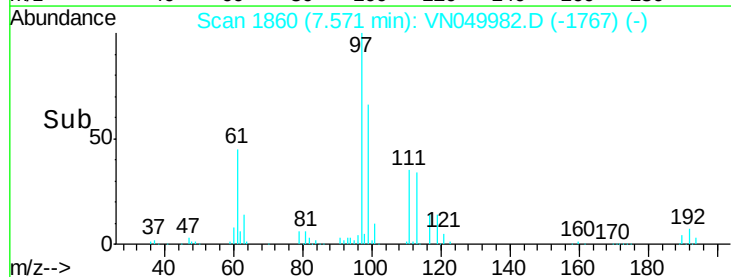
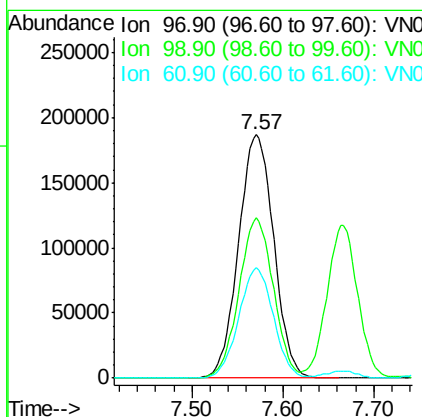
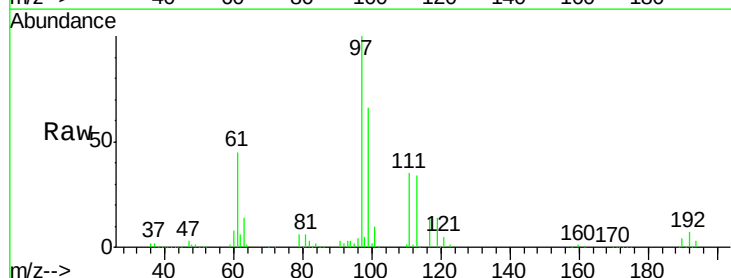
Manual Integrations
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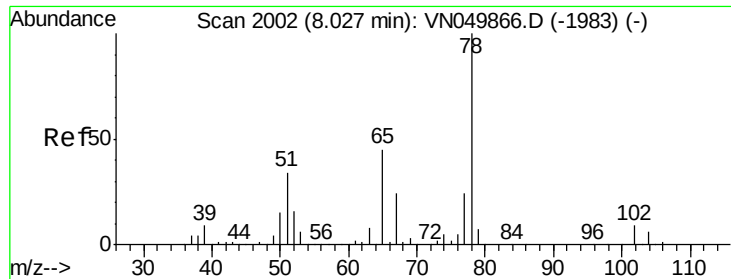
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 46.08 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.0	76.4
61	44.7	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 53.43 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 65 Resp: 403222

Ion Ratio Lower Upper

65 100

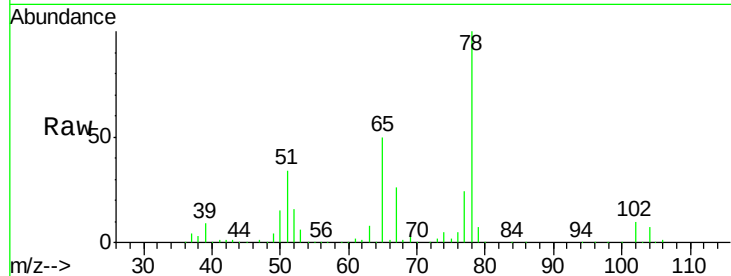
67 53.0 0.0 107.2

Manual Integrations

APPROVED

MMDadoda

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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

200000

150000

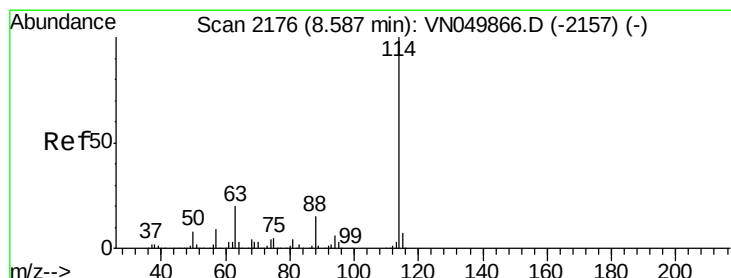
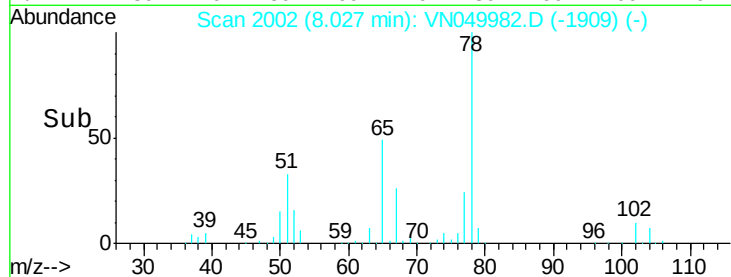
100000

50000

0

7.95 8.00 8.05 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

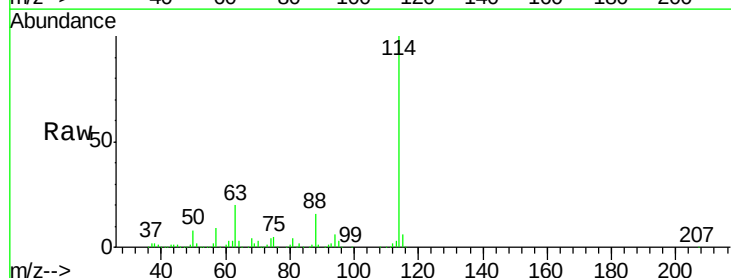
Tgt Ion: 114 Resp: 815100

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.8

88 15.6 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

500000

400000

300000

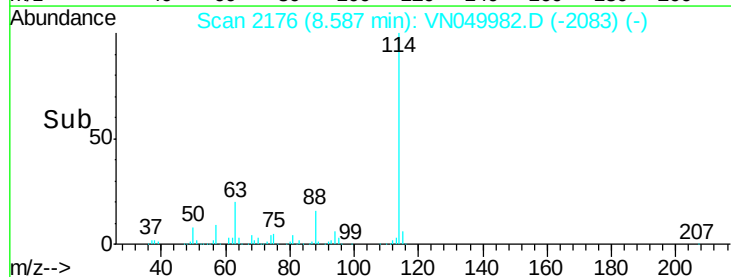
200000

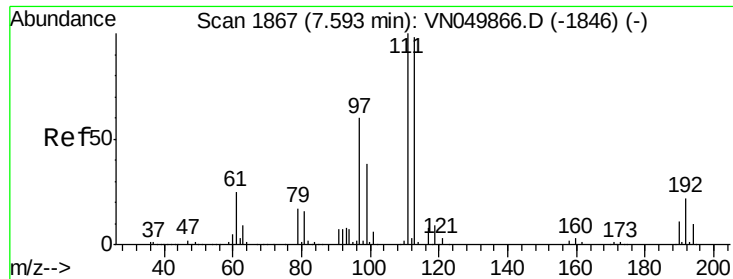
100000

0

8.50 8.60 8.70

Time-->





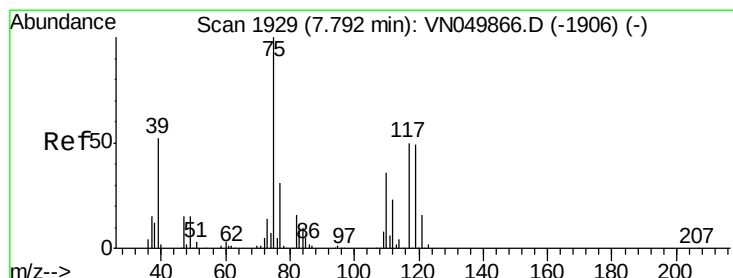
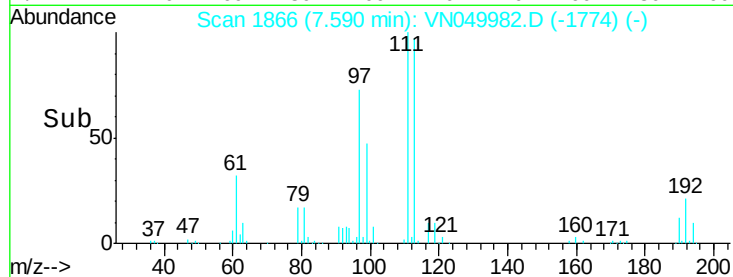
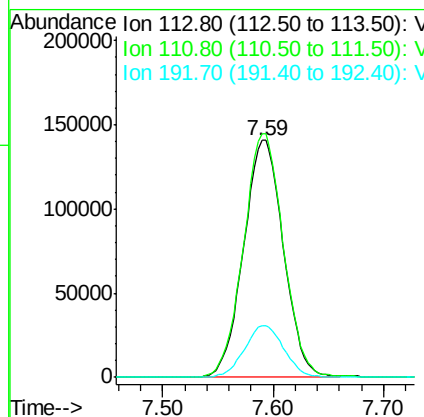
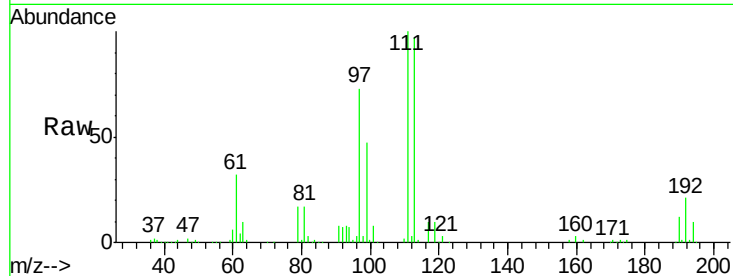
#35
 Dibromofluoromethane
 Concen: 51.41 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.5	81.8	122.8	
192	21.7	17.8	26.6	

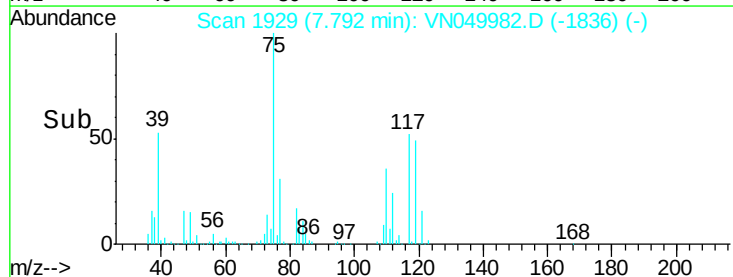
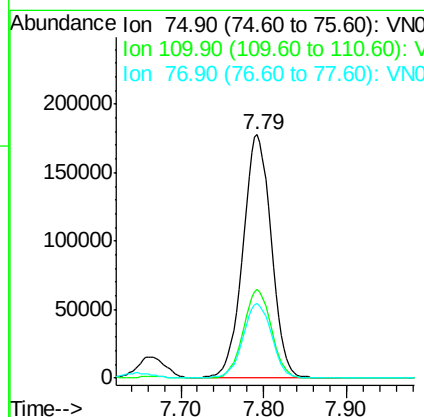
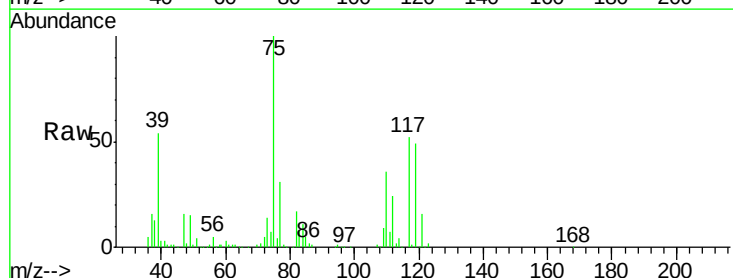
Manual Integrations
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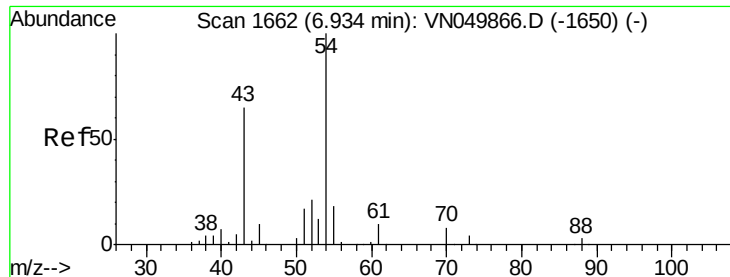
MMDadoda
 7/23/2018 2:04:16 PM



#36
 1,1-Dichloropropene
 Concen: 46.59 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	35.8	18.1	54.4	
77	31.2	24.9	37.3	





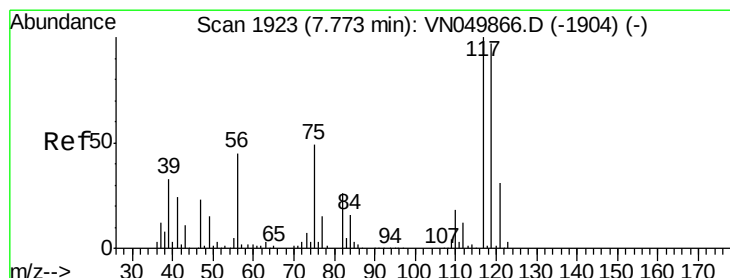
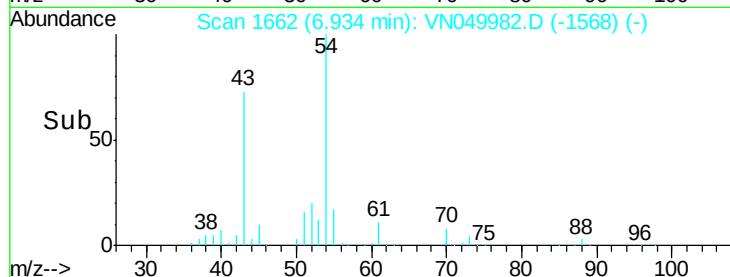
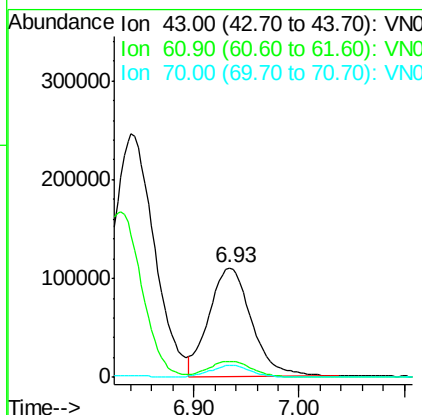
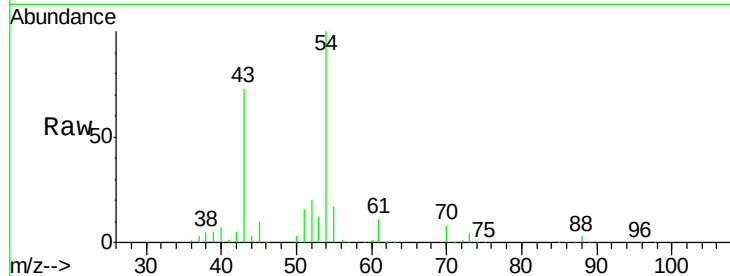
#37
Ethyl Acetate
Concen: 49.26 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.7	17.5
70	10.3	8.4	12.6

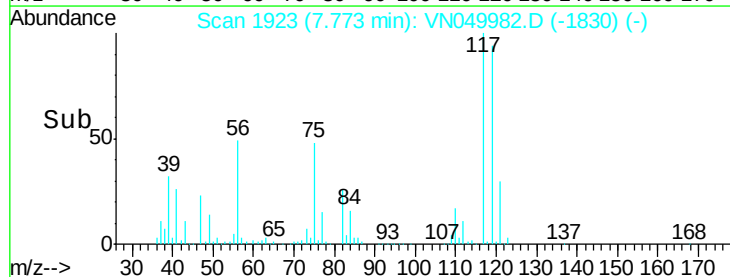
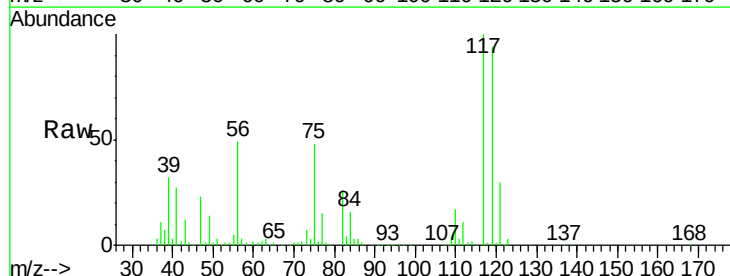
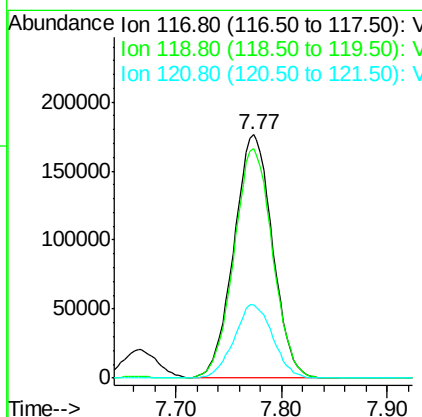
Manual Integrations
APPROVED

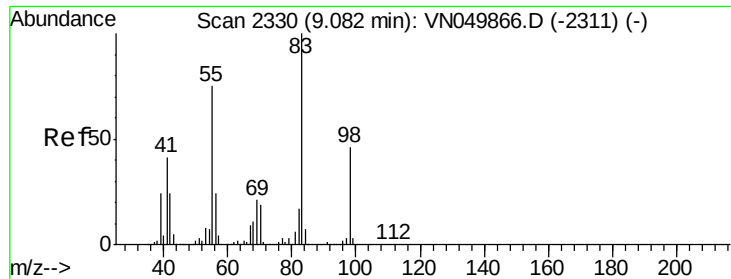
MMDadoda
7/23/2018 2:04:16 PM



#38
Carbon Tetrachloride
Concen: 46.00 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.2	77.2	115.8
121	30.4	25.0	37.6





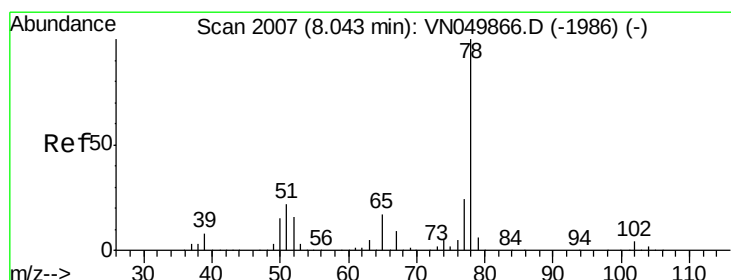
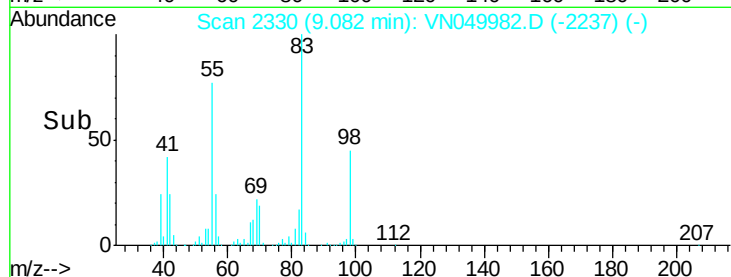
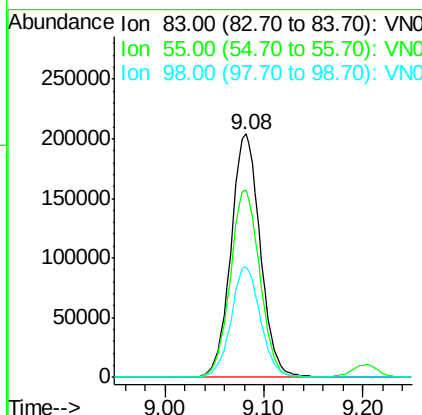
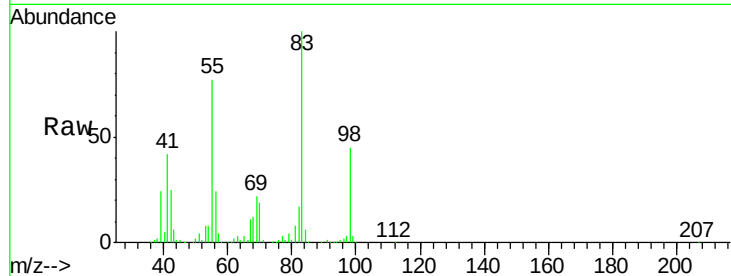
#39
Methylvlcyclohexane
Concen: 45.10 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.9	59.7	89.5
98	45.4	36.5	54.7

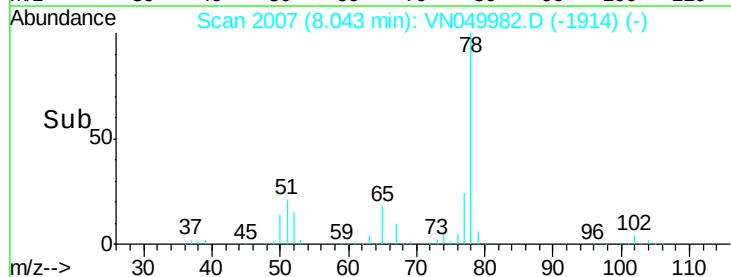
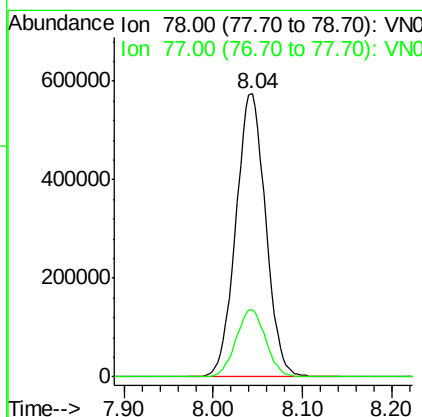
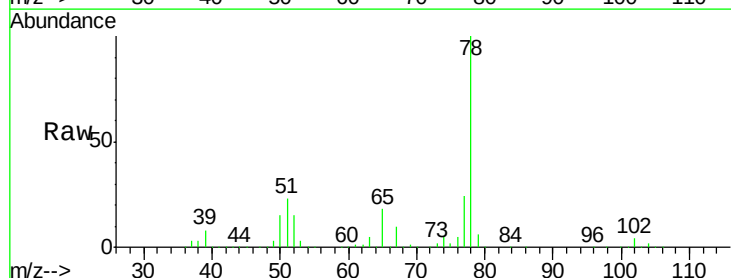
Manual Integrations
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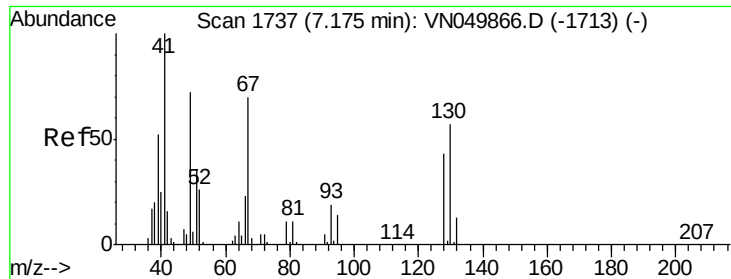
MMDadoda
7/23/2018 2:04:16 PM



#40
Benzene
Concen: 48.22 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4





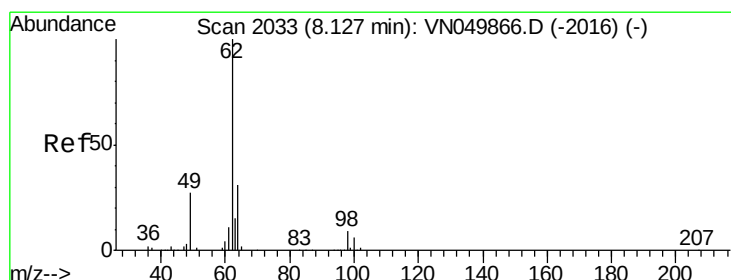
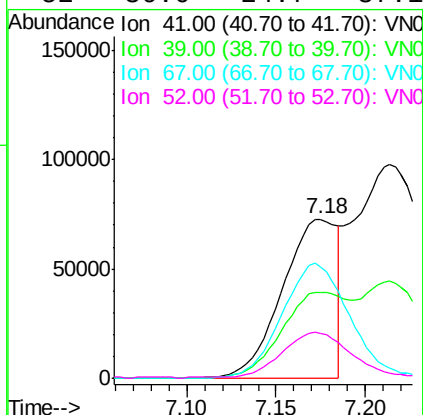
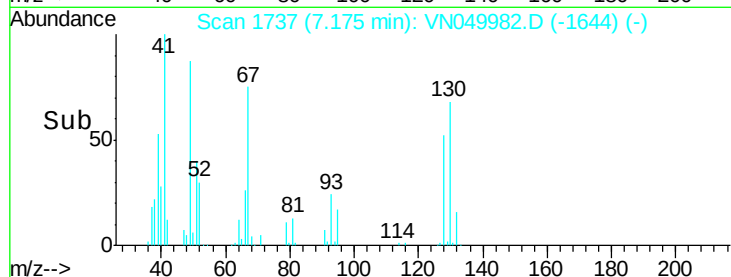
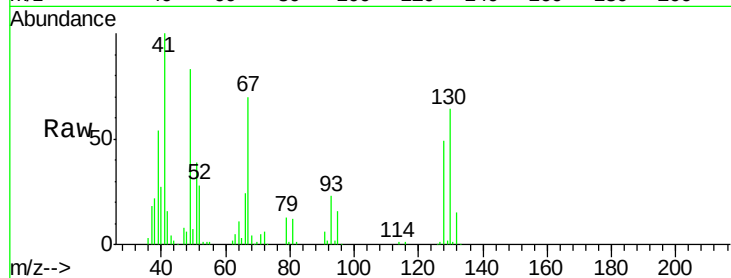
#41
Methacrylonitrile
Concen: 49.71 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	67.9	45.4	68.2
67	90.0	65.4	98.0
52	36.0	24.7	37.1

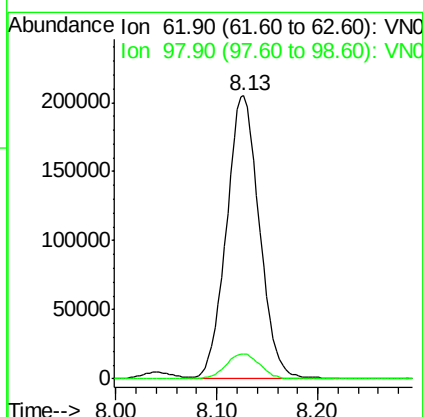
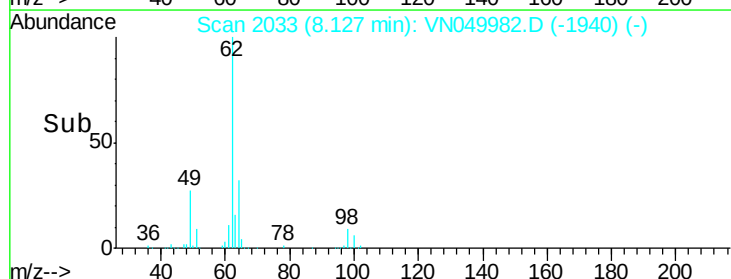
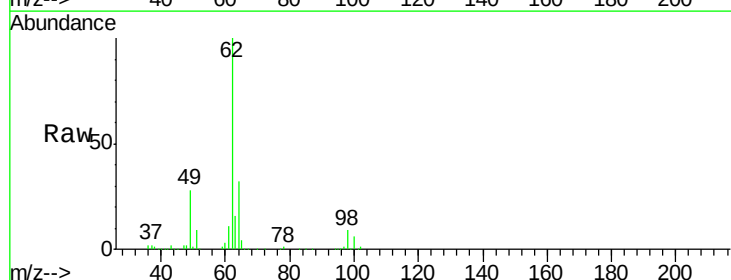
Manual Integrations
APPROVED

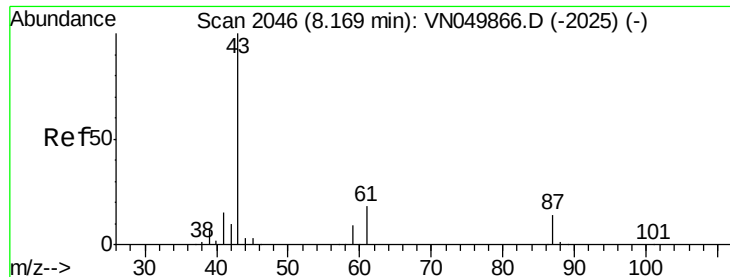
MMDadoda
7/23/2018 2:04:16 PM



#42
1,2-Dichloroethane
Concen: 50.75 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	19.0





#43

Isopropyl Acetate

Concen: 53.76 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

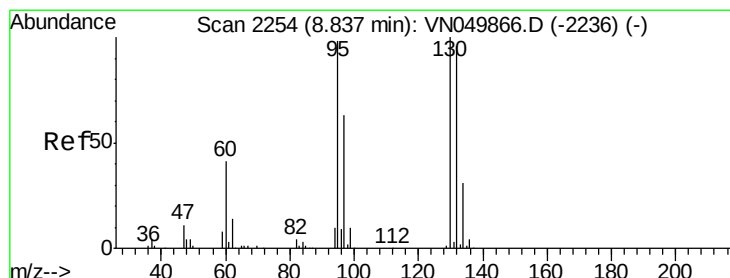
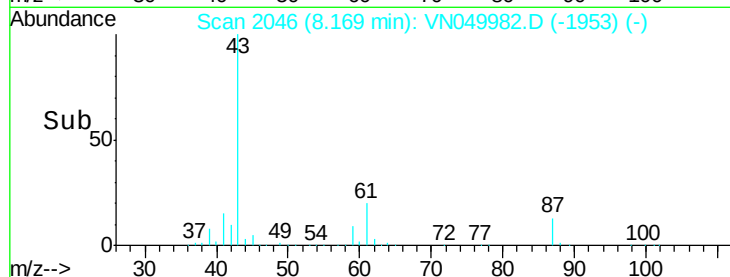
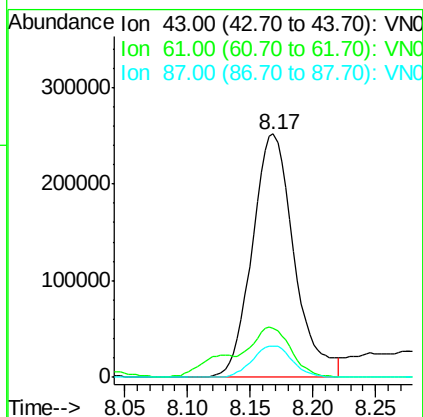
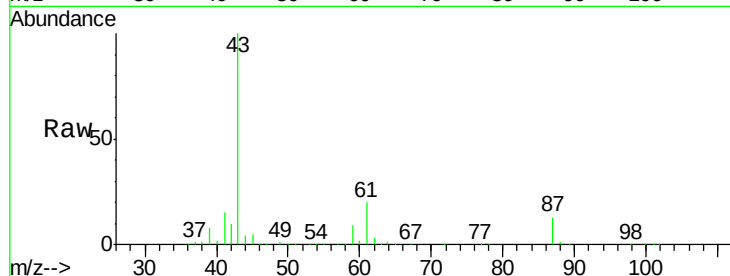
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	584521
Ion	Ratio	Lower	Upper
43	100		
61	19.5	14.9	22.3
87	12.4	10.0	15.0

Manual Integrations
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#44

Trichloroethene

Concen: 47.45 ug/l

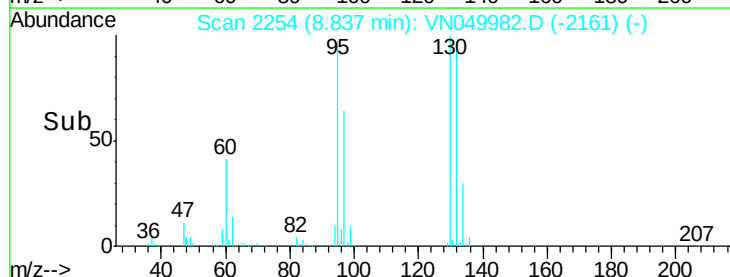
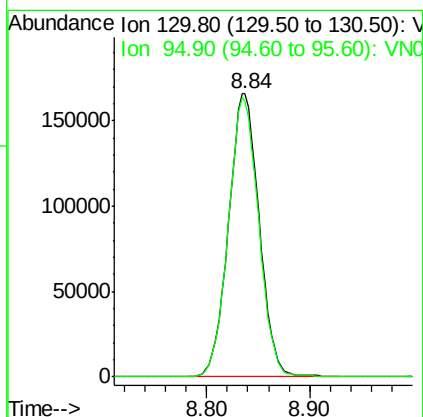
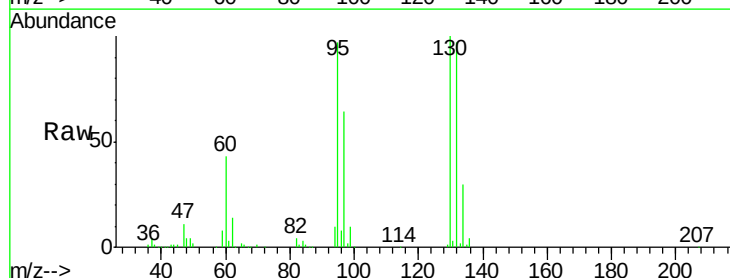
RT: 8.84 min Scan# 2254

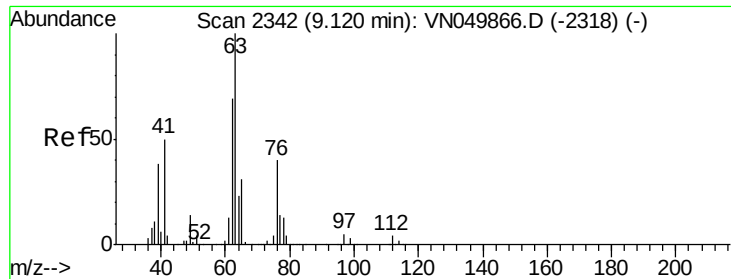
Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Tgt Ion:	130	Resp:	343709
Ion	Ratio	Lower	Upper
130	100		
95	97.5	0.0	192.8





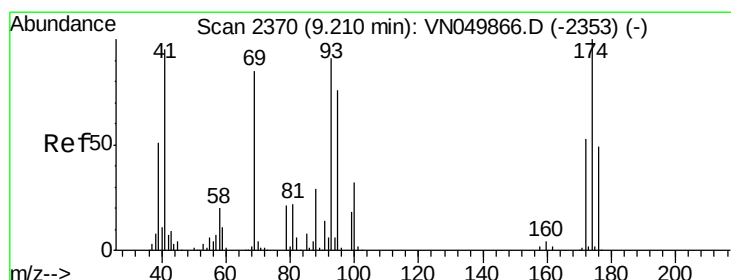
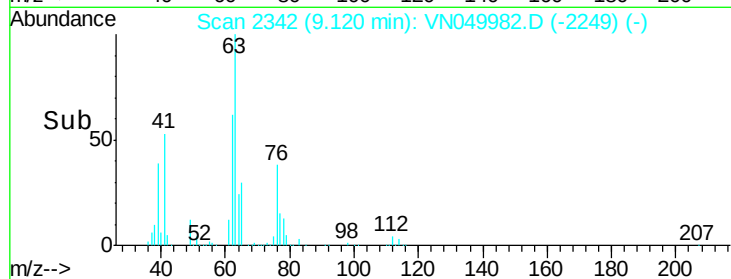
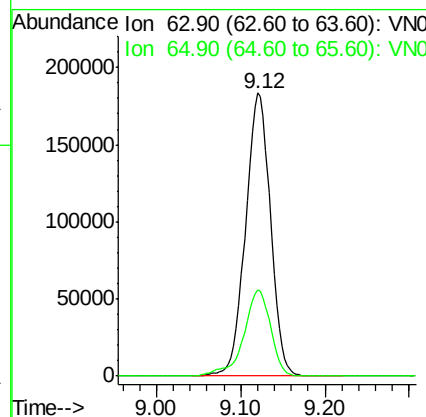
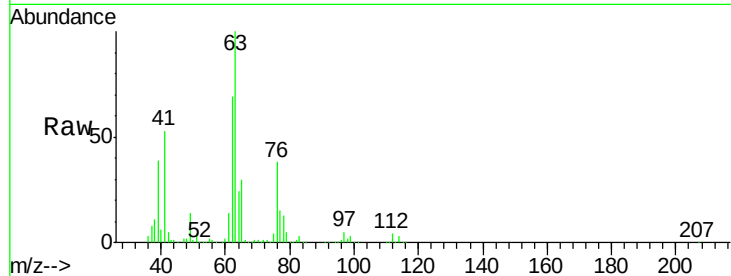
#45
 1,2-Dichloropropane
 Concen: 50.78 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 378372
 Ion Ratio Lower Upper
 63 100
 65 30.5 24.7 37.1

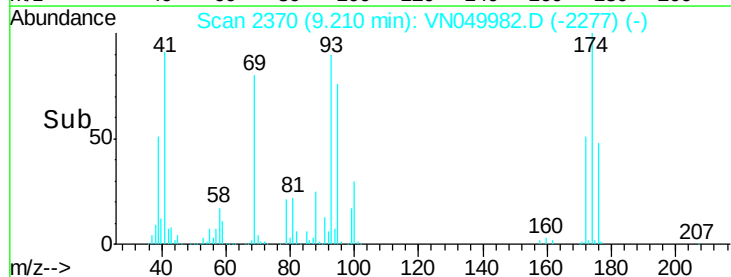
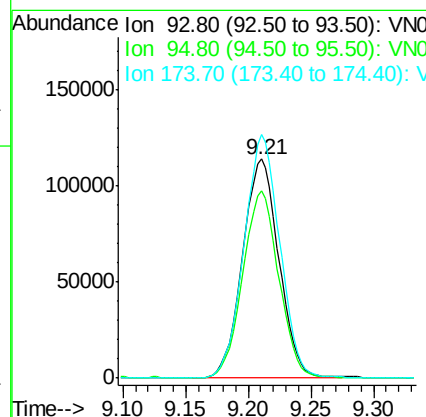
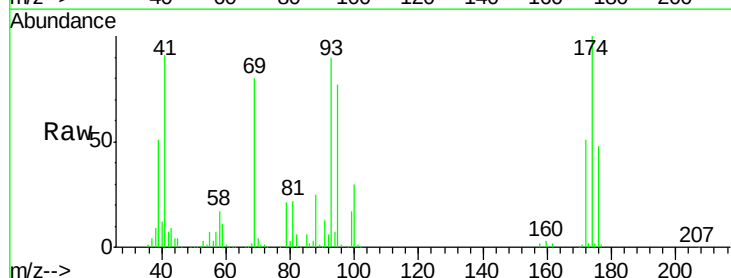
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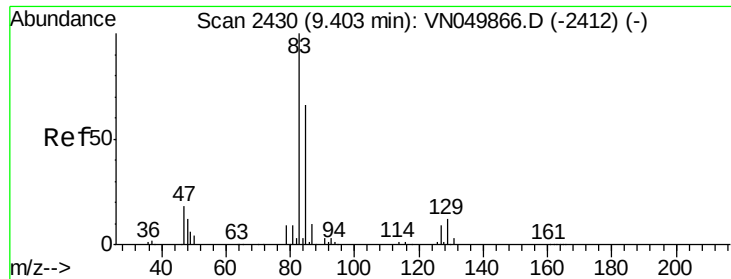
MMDadoda
 7/23/2018 2:04:16 PM



#46
 Dibromomethane
 Concen: 49.91 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion: 93 Resp: 230666
 Ion Ratio Lower Upper
 93 100
 95 85.1 67.9 101.9
 174 109.4 89.4 134.0





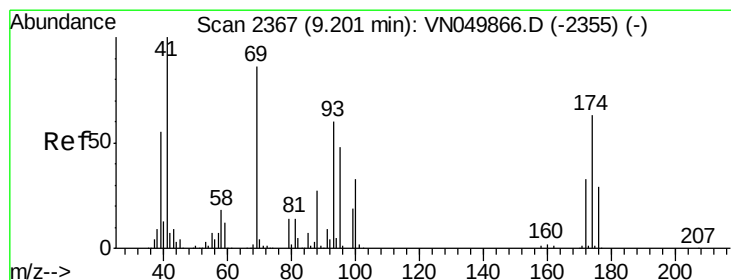
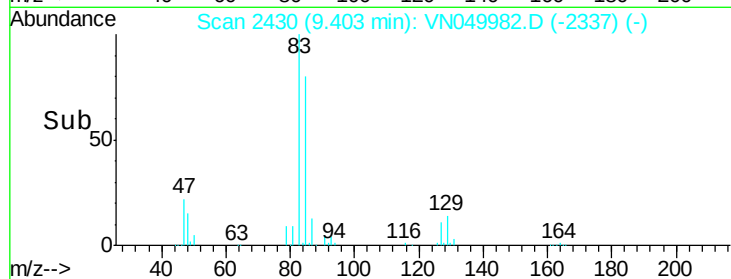
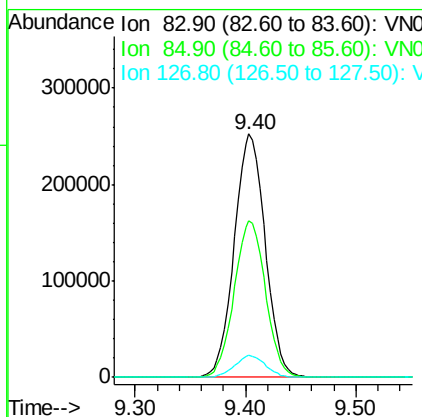
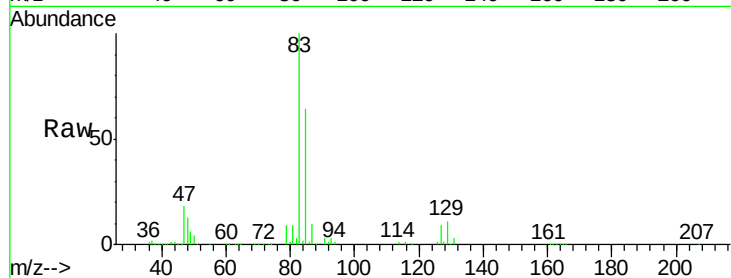
#47
Bromodichloromethane
Concen: 51.41 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	83	Resp	491311
Ion Ratio	100	Lower	Upper
83	100		
85	64.4	50.5	75.7
127	8.9	6.8	10.2

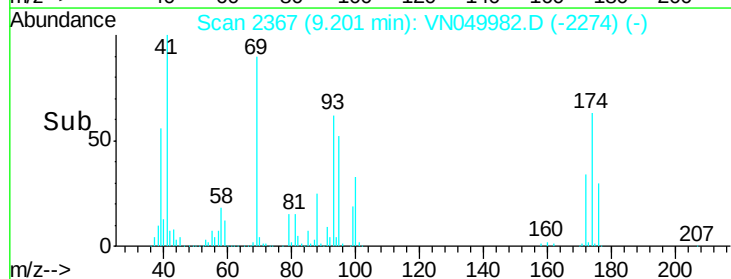
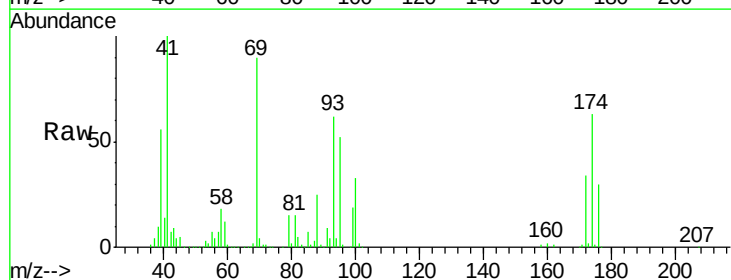
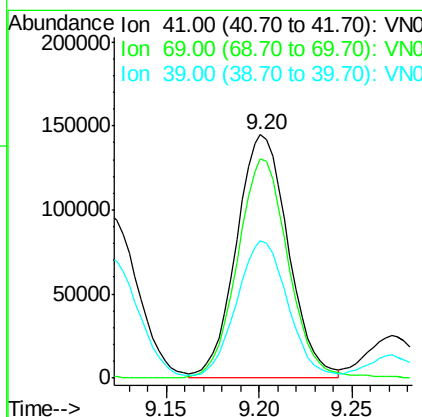
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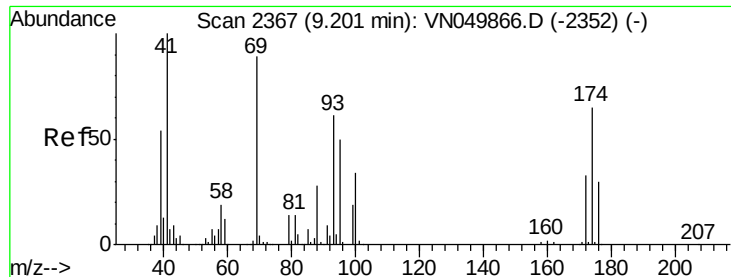
MMDadoda
7/23/2018 2:04:16 PM



#48
Methyl methacrylate
Concen: 51.22 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	41	Resp	279367
Ion Ratio	100	Lower	Upper
41	100		
69	88.5	71.5	107.3
39	56.0	44.7	67.1





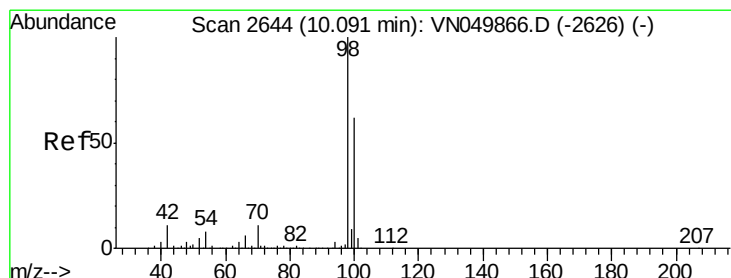
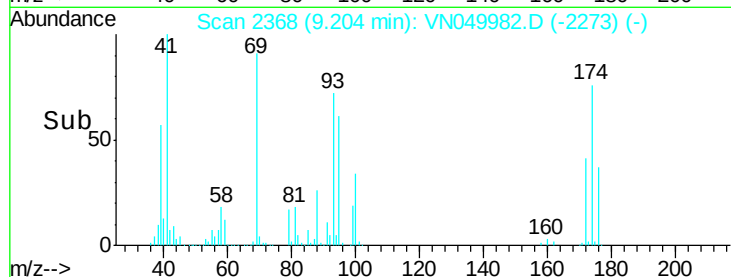
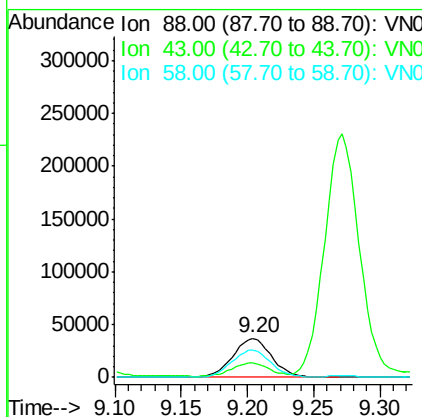
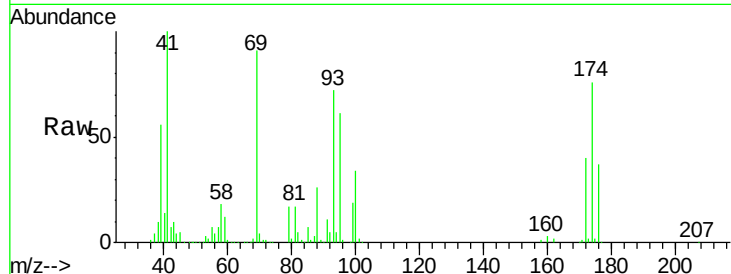
#49
1,4-Dioxane
Concen: 973.99 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	88	Resp	75358
Ion	Ratio	Lower	Upper
88	100		
43	32.5	25.1	37.7
58	70.1	52.5	78.7

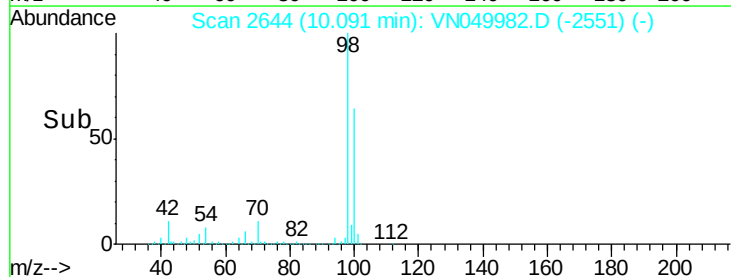
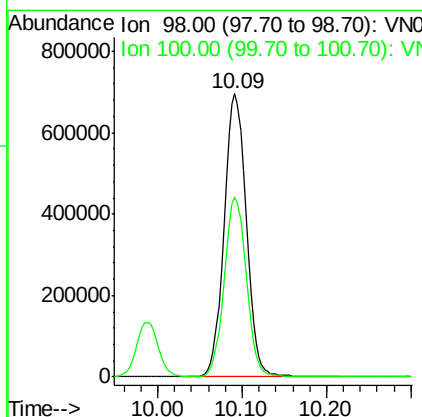
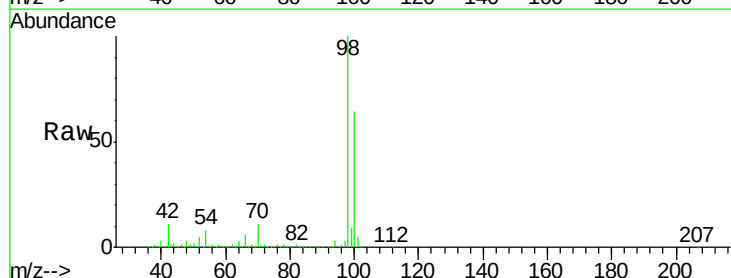
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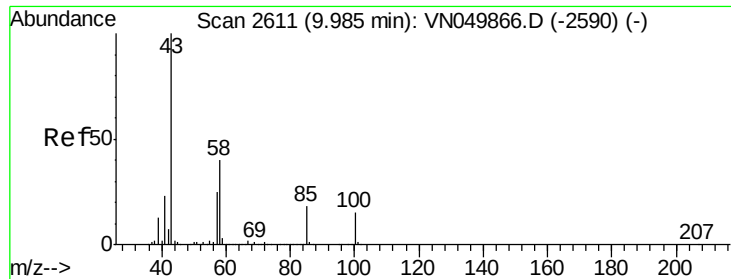
MMDadoda
7/23/2018 2:04:16 PM



#50
Toluene-d8
Concen: 51.08 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	98	Resp	1273491
Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.7	77.5





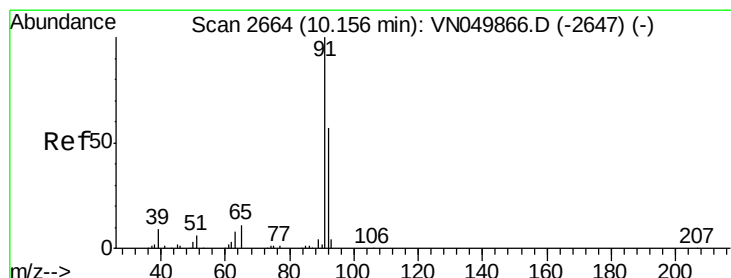
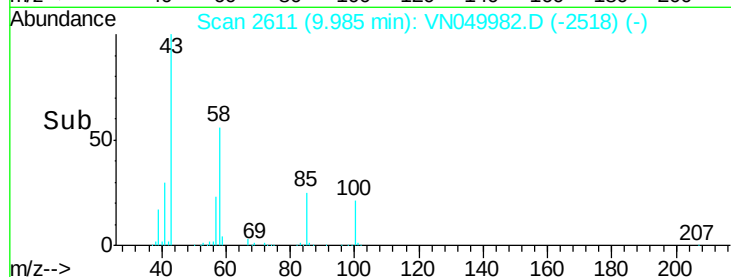
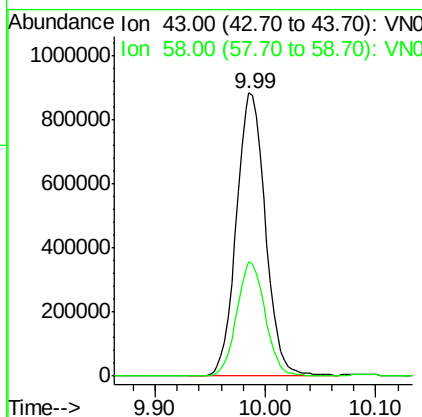
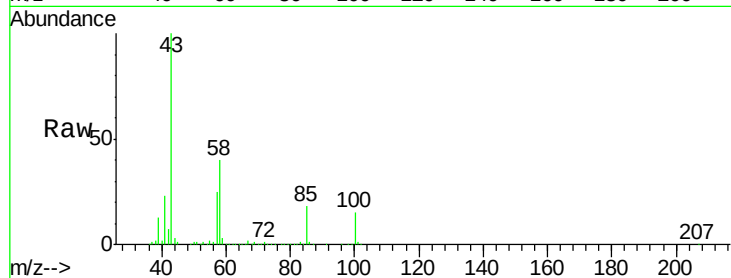
#51
 4-Methyl-2-Pentanone
 Concen: 265.08 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 1611164
 Ion Ratio Lower Upper
 43 100
 58 39.7 31.8 47.8

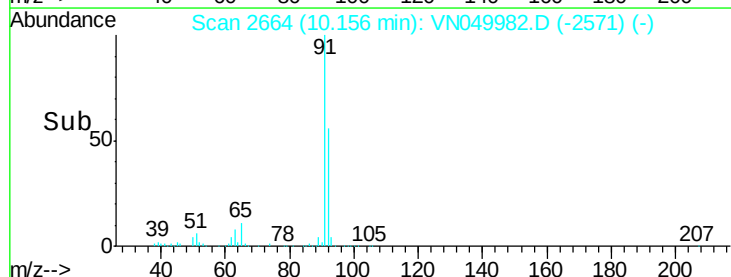
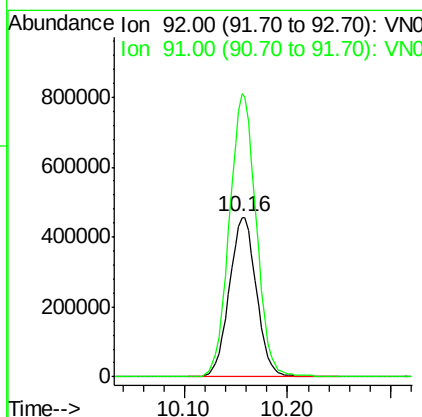
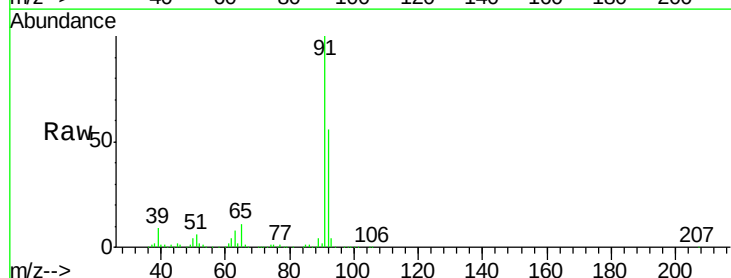
Manual Integrations
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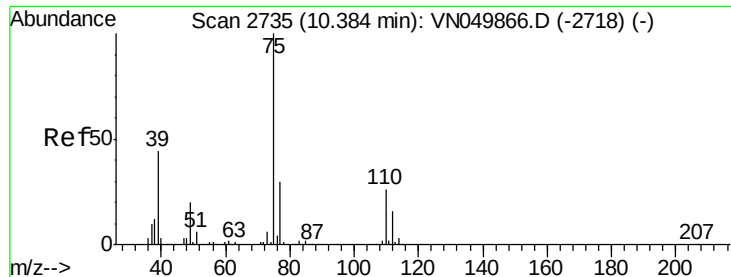
MMDadoda
 7/23/2018 2:04:16 PM



#52
 Toluene
 Concen: 50.74 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion: 92 Resp: 836011
 Ion Ratio Lower Upper
 92 100
 91 175.8 140.1 210.1





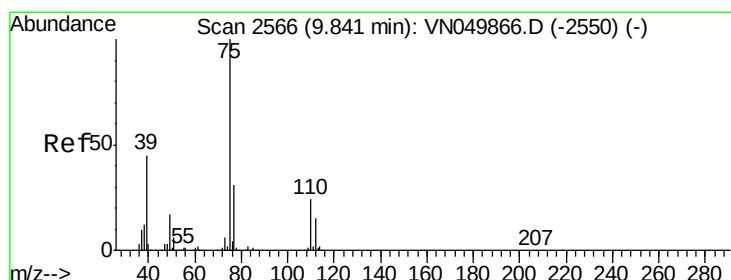
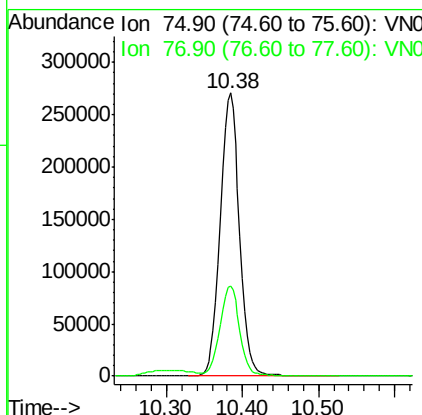
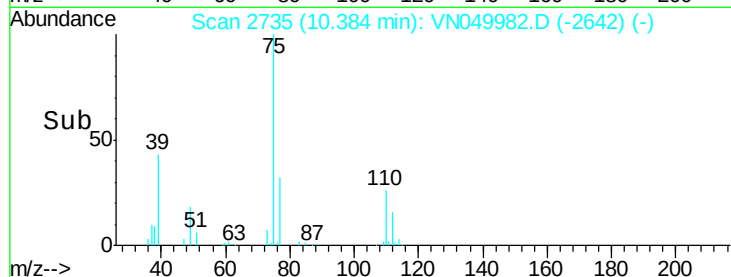
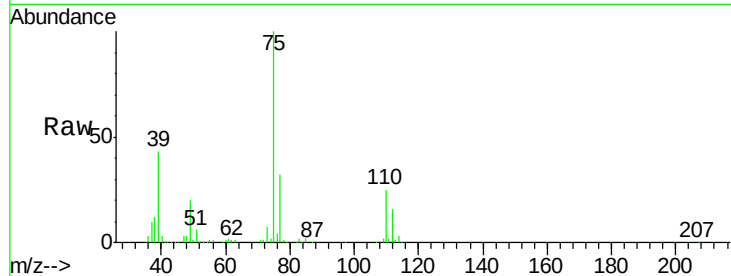
#53
t-1,3-Dichloropropene
Concen: 50.31 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 75 Resp: 475459
Ion Ratio Lower Upper
75 100
77 31.8 25.2 37.8

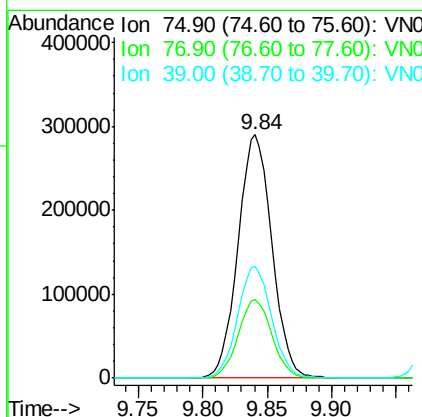
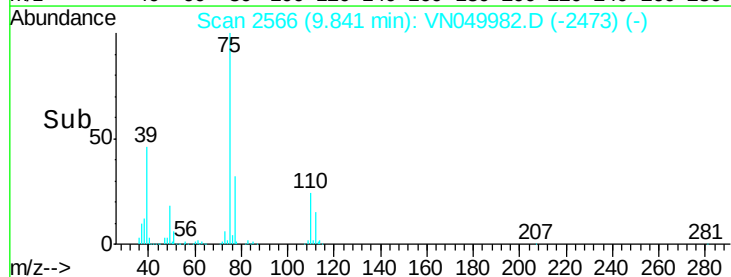
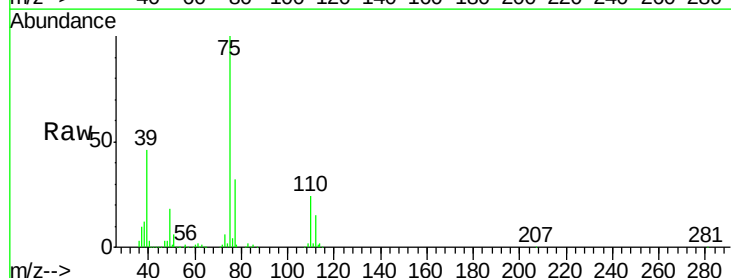
Manual Integrations
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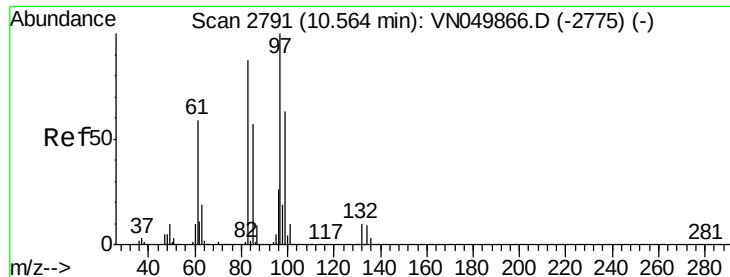
MMDadoda
7/23/2018 2:04:16 PM



#54
cis-1,3-Dichloropropene
Concen: 50.97 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion: 75 Resp: 532333
Ion Ratio Lower Upper
75 100
77 32.2 25.3 37.9
39 45.8 35.5 53.3





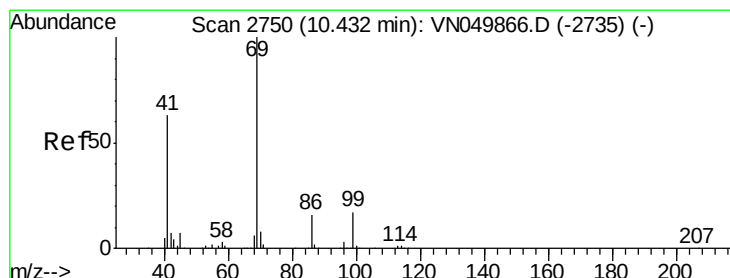
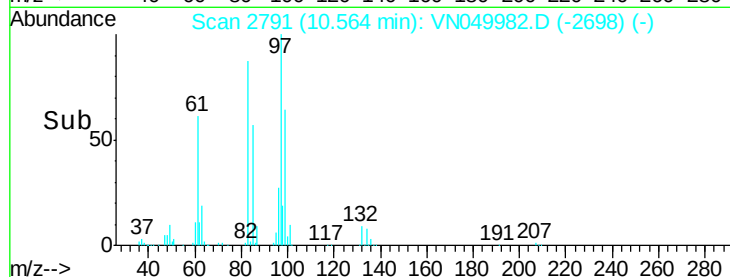
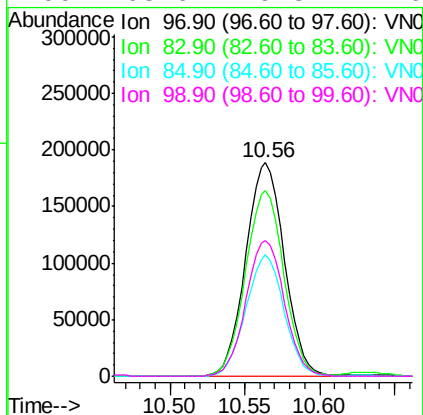
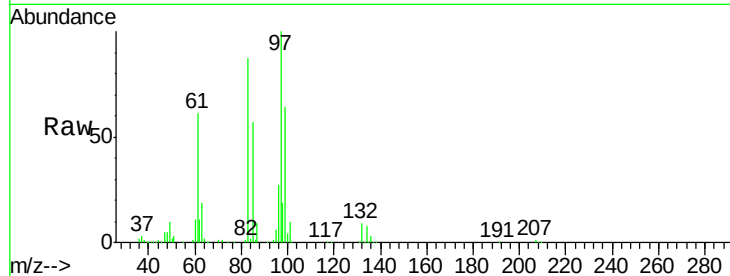
#55
 1,1,2-Trichloroethane
 Concen: 49.82 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		339107		
83	87.2	69.0	103.6		
85	56.7	44.9	67.3		
99	63.6	49.8	74.6		

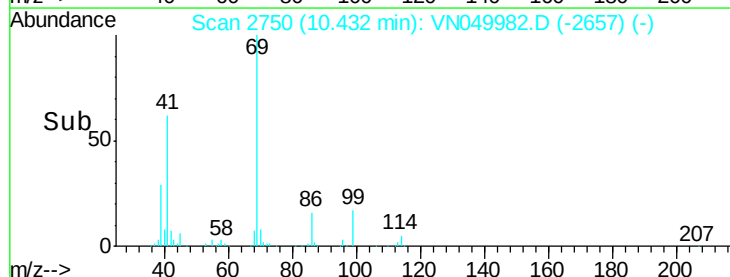
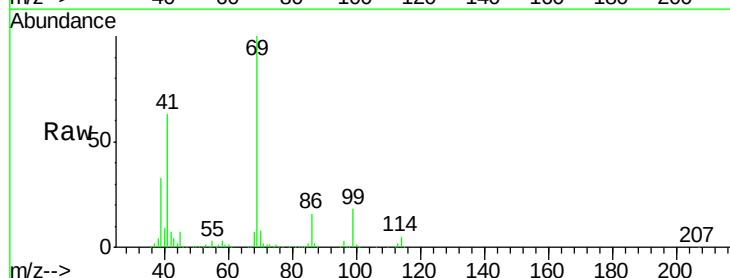
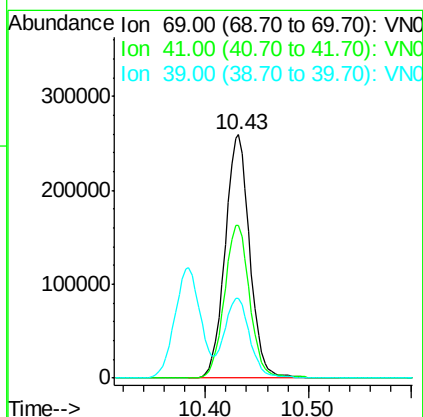
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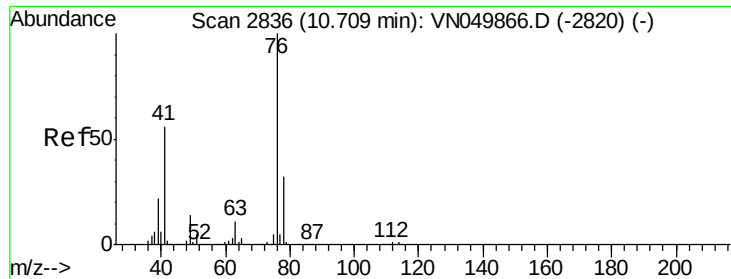
MMDadoda
 7/23/2018 2:04:16 PM



#56
 Ethyl methacrylate
 Concen: 47.30 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		431208		
41	63.6	51.6	77.4		
39	32.9	25.8	38.8		





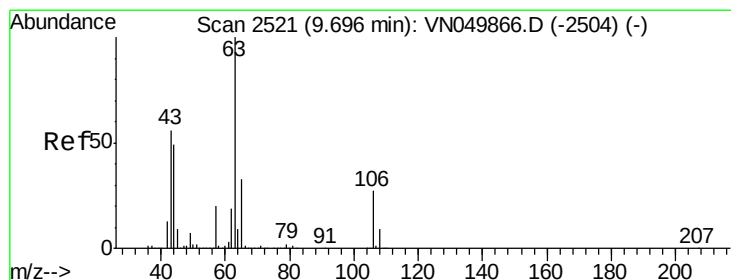
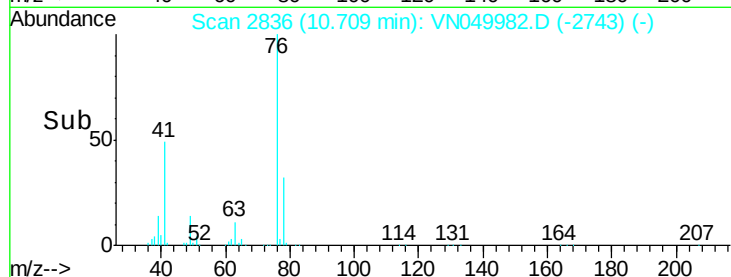
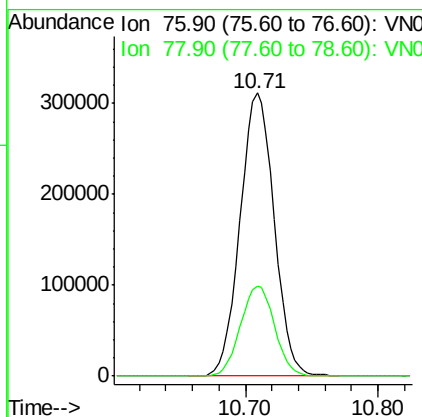
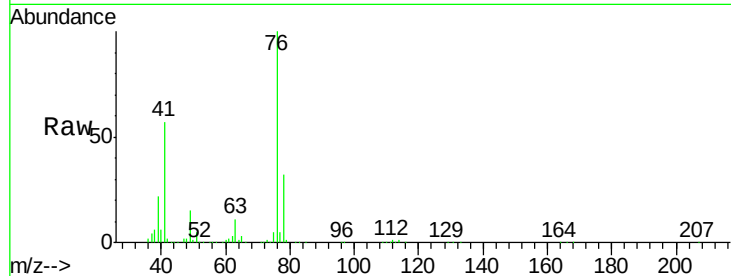
#57
 1,3-Dichloropropane
 Concen: 51.88 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 556135
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.8 38.8

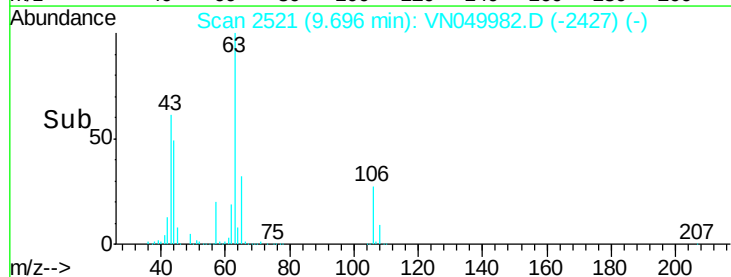
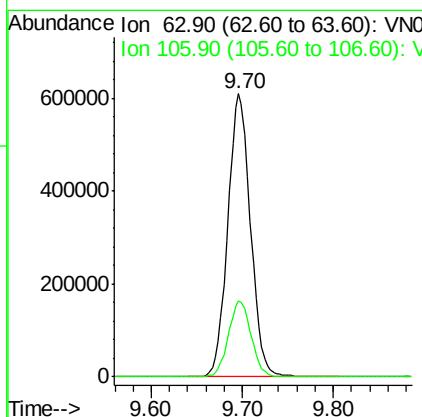
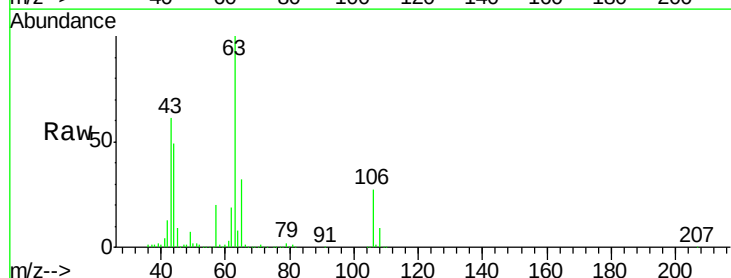
Manual Integrations
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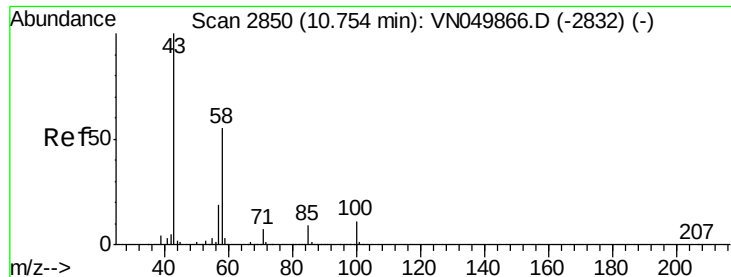
MMDadoda
 7/23/2018 2:04:16 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 245.35 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion: 63 Resp: 1053649
 Ion Ratio Lower Upper
 63 100
 106 27.0 21.8 32.8





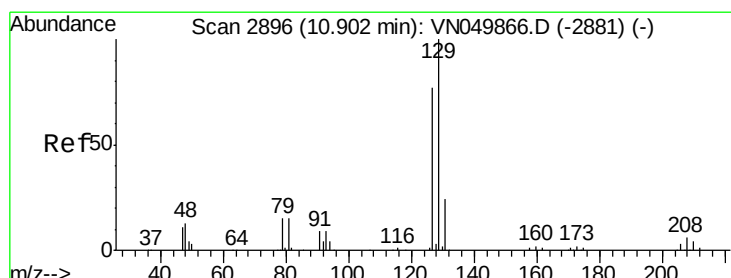
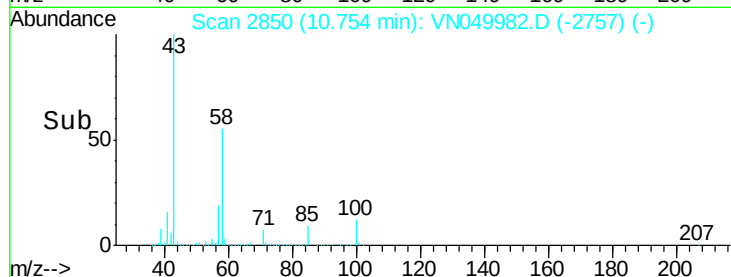
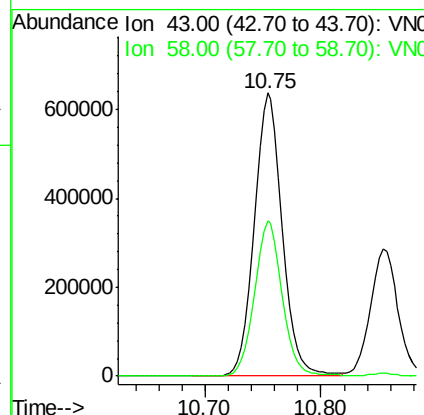
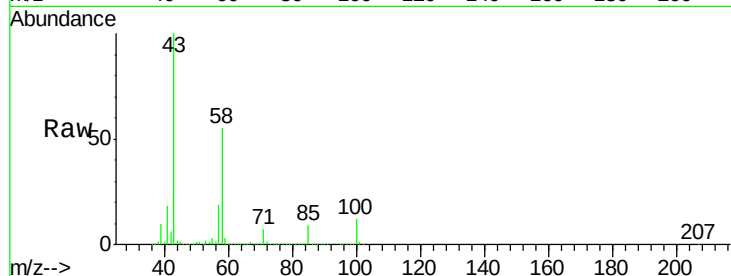
#59
2-Hexanone
Concen: 262.30 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1070835
Ion Ratio Lower Upper
43 100
58 54.6 27.8 83.4

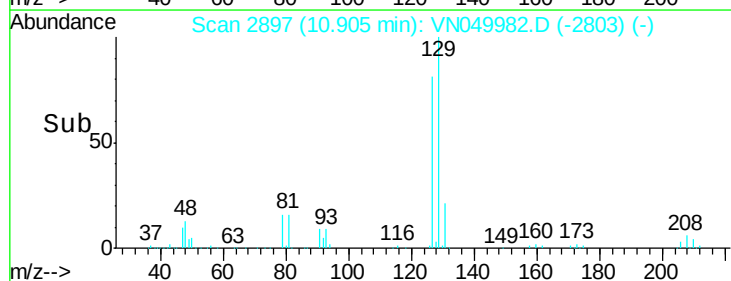
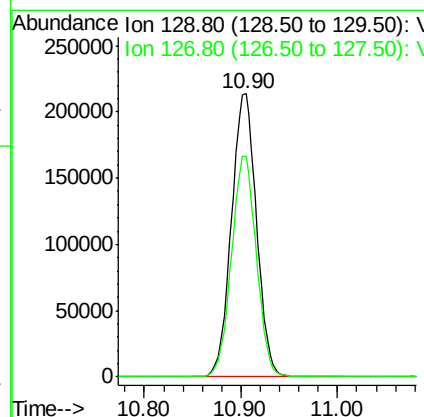
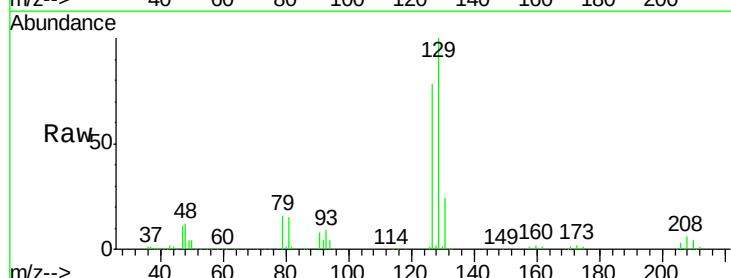
Manual Integrations
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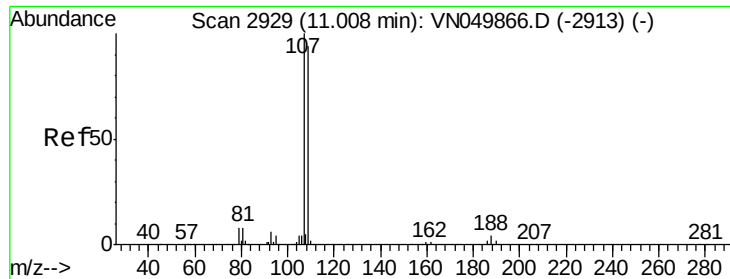
MMDadoda
7/23/2018 2:04:16 PM



#60
Dibromochloromethane
Concen: 51.54 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion: 129 Resp: 384727
Ion Ratio Lower Upper
129 100
127 77.4 38.3 114.9





#61

1,2-Dibromoethane

Concen: 51.58 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 328059

Ion Ratio Lower Upper

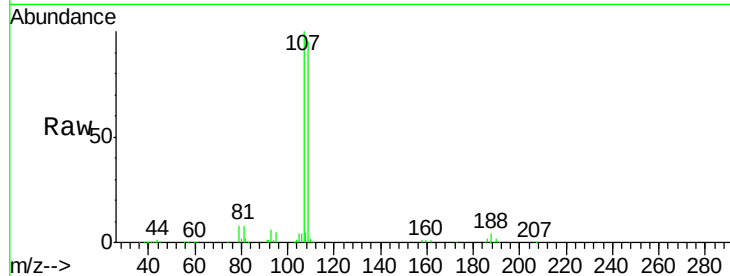
107 100

109 94.5 75.0 112.6

Manual Integrations
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MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

200000

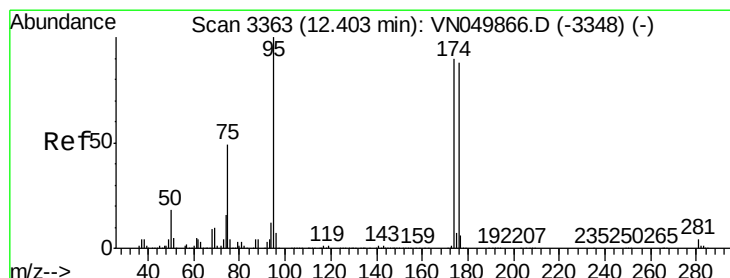
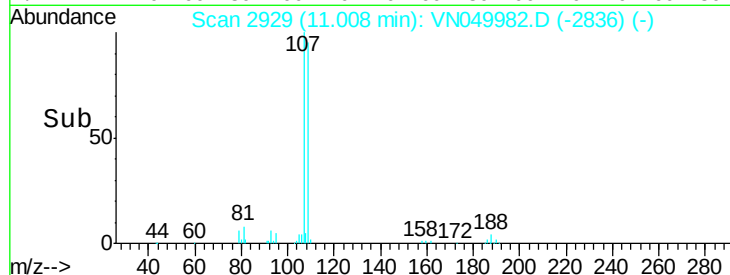
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 51.69 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

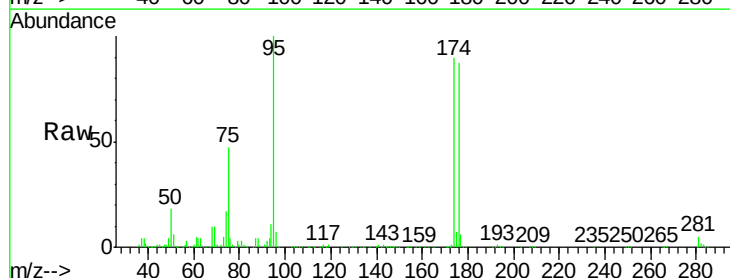
Tgt Ion: 95 Resp: 443800

Ion Ratio Lower Upper

95 100

174 89.9 0.0 179.6

176 86.6 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

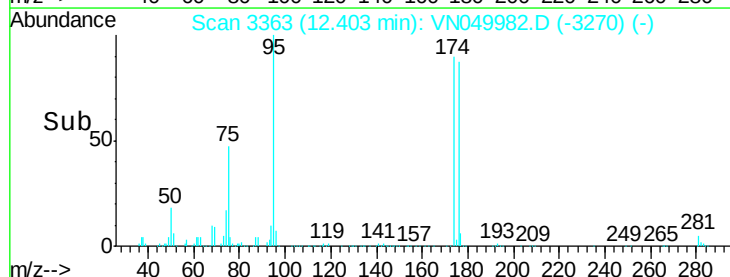
300000

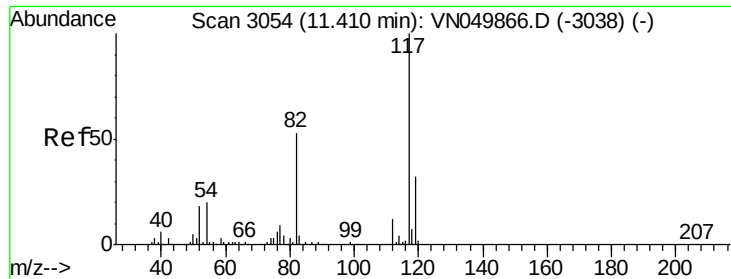
200000

100000

0

Time--> 12.35 12.40 12.45





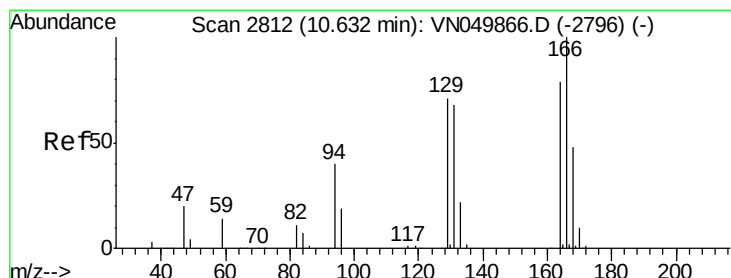
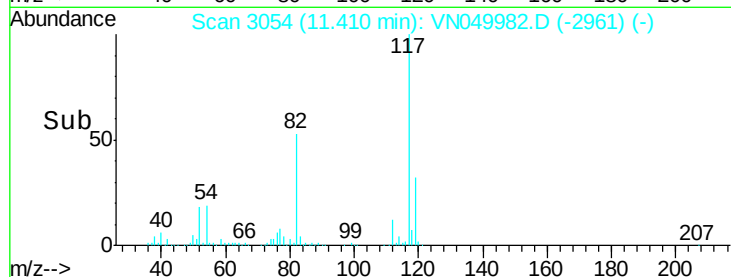
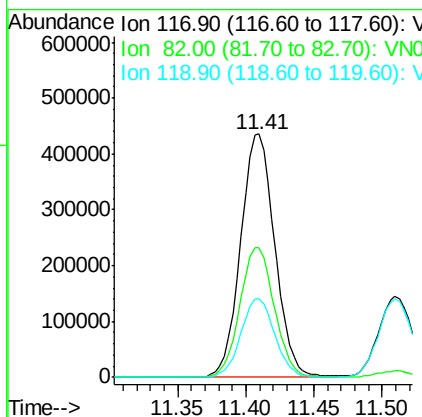
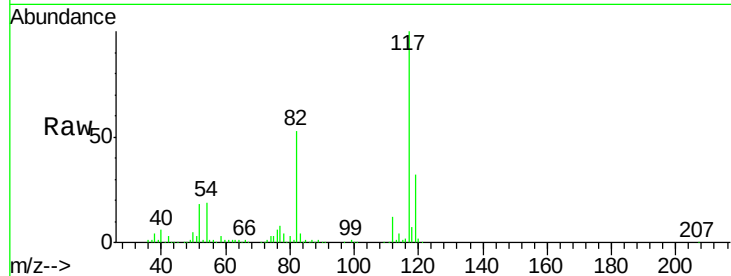
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	757907		
82	53.2	41.9	62.9	
119	32.4	25.4	38.2	

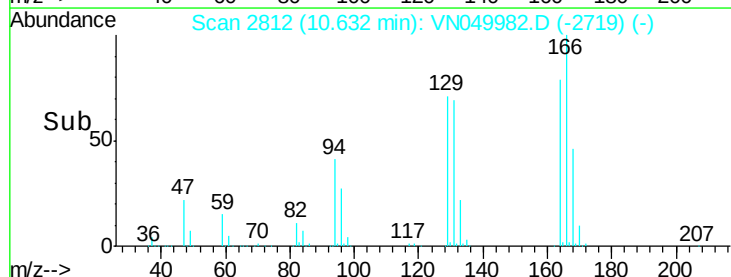
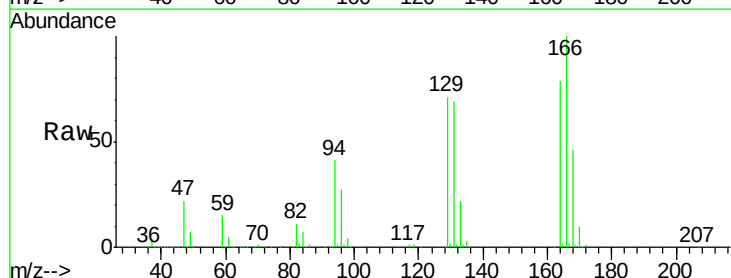
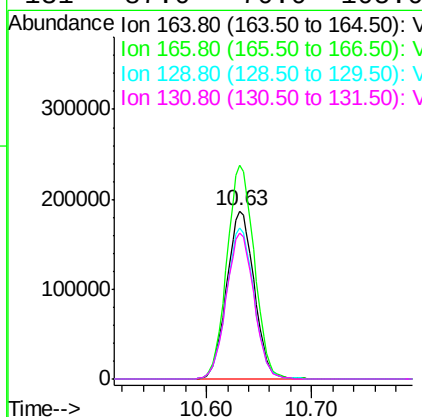
Manual Integrations
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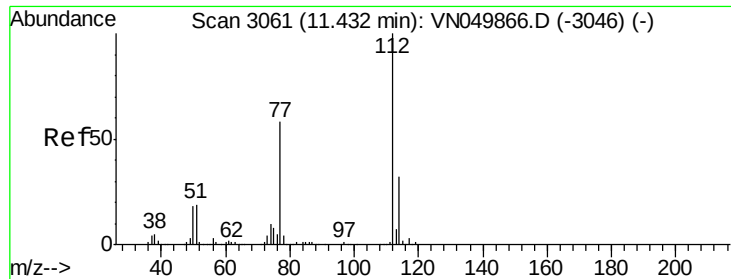
MMDadoda
7/23/2018 2:04:16 PM



#64
Tetrachloroethene
Concen: 49.36 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	336197		
166	127.2	101.8	152.6	
129	90.1	72.8	109.2	
131	87.0	70.0	105.0	





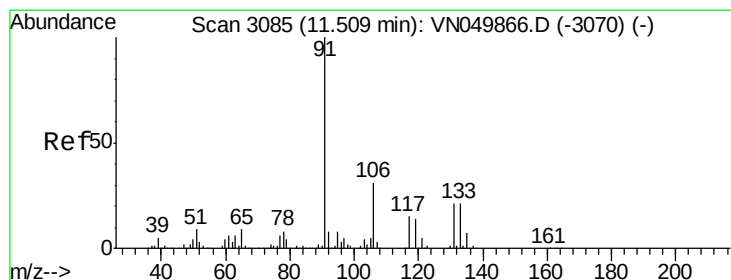
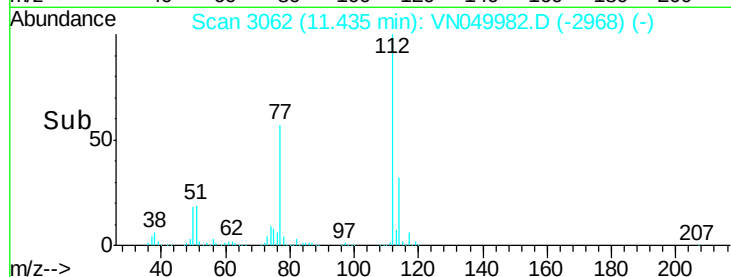
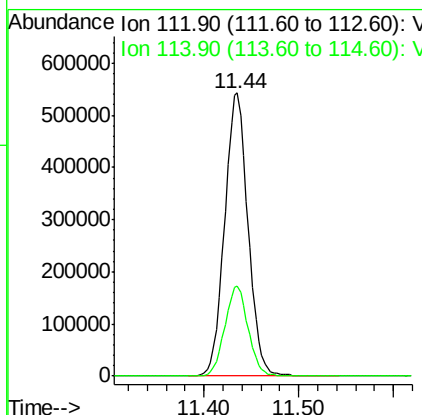
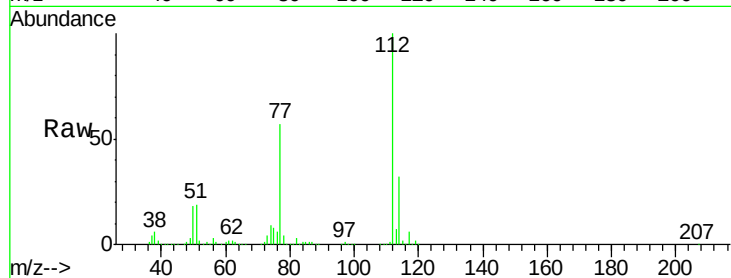
#65
Chlorobenzene
Concen: 48.94 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.4	38.0

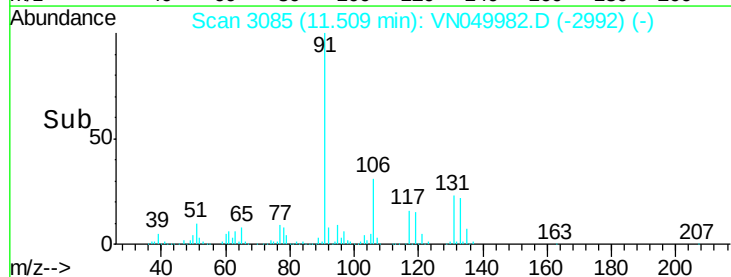
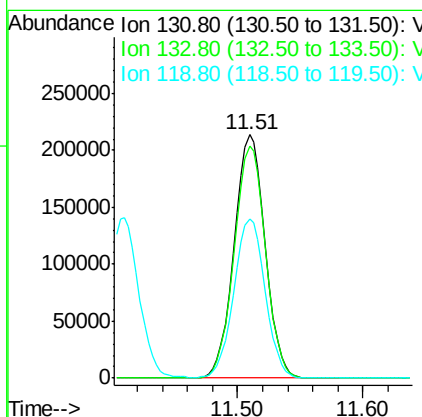
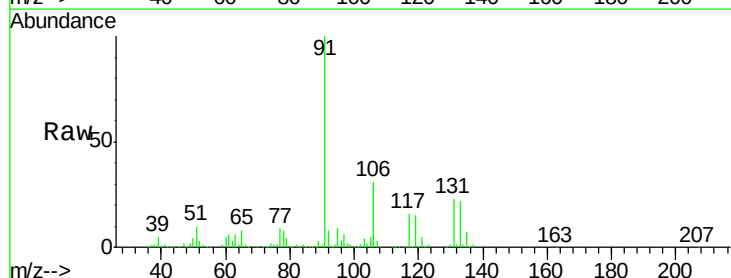
Manual Integrations
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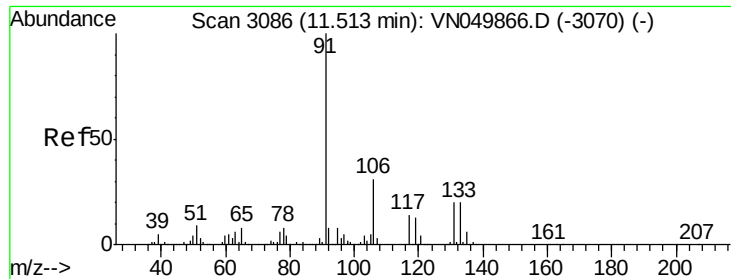
MMDadoda
7/23/2018 2:04:16 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.60 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.5	142.6
119	66.3	33.1	99.3





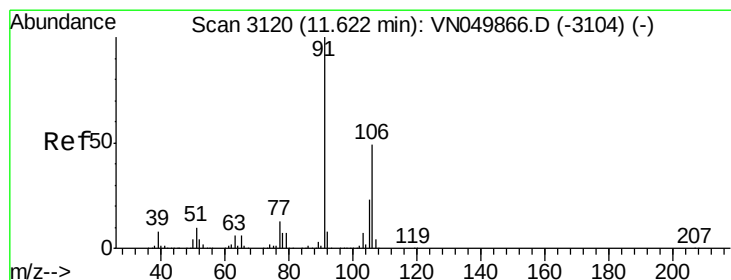
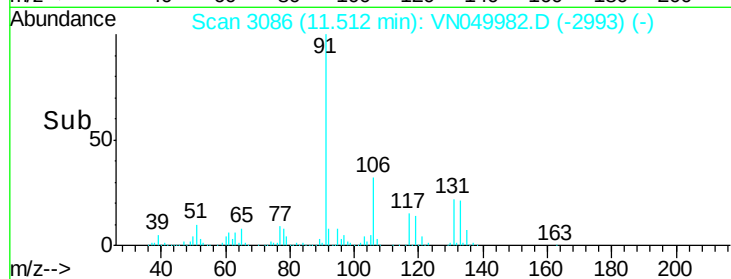
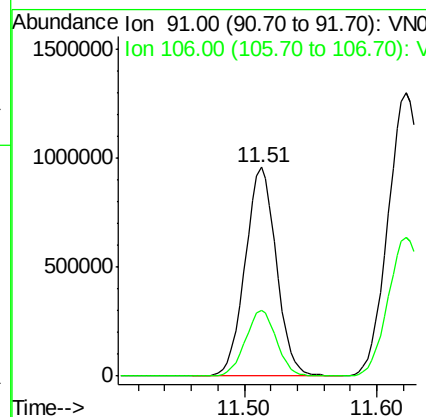
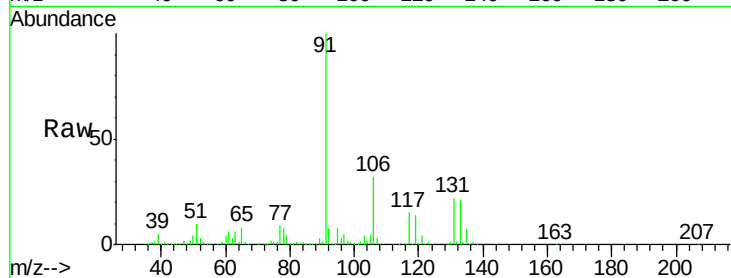
#67
Ethyl Benzene
Concen: 50.53 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 1561079
Ion Ratio Lower Upper
91 100
106 31.5 24.8 37.2

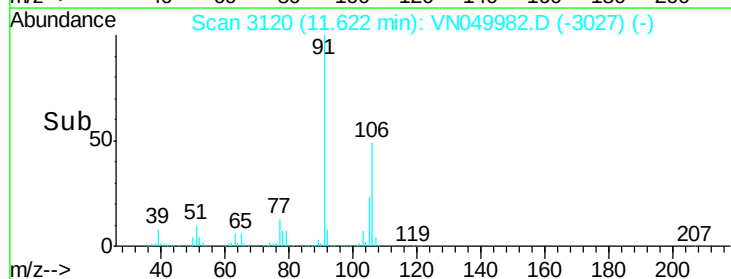
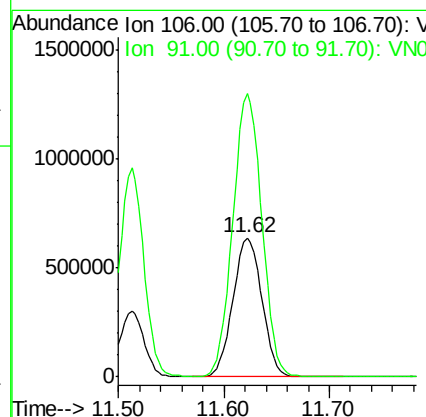
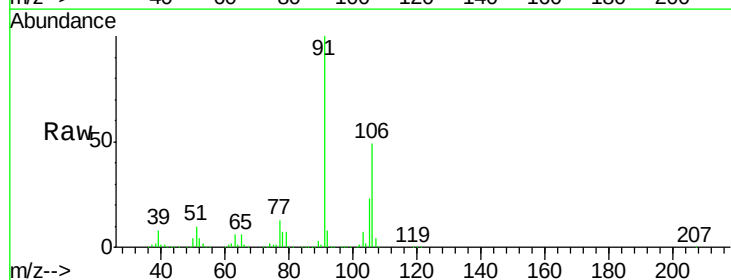
Manual Integrations
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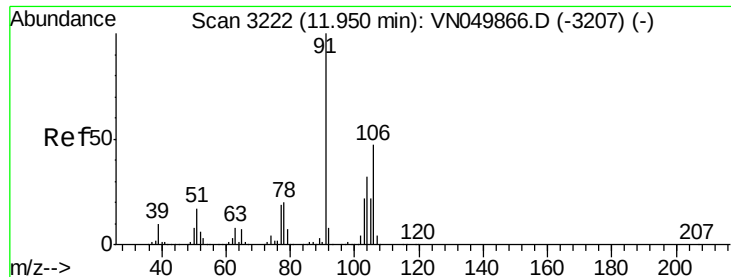
MMDadoda
7/23/2018 2:04:16 PM



#68
m/p-Xylenes
Concen: 103.63 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion: 106 Resp: 1211818
Ion Ratio Lower Upper
106 100
91 203.5 163.4 245.2





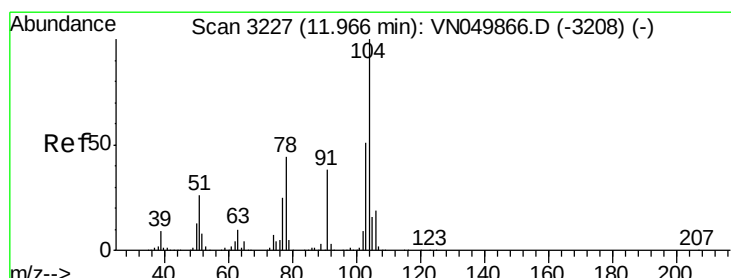
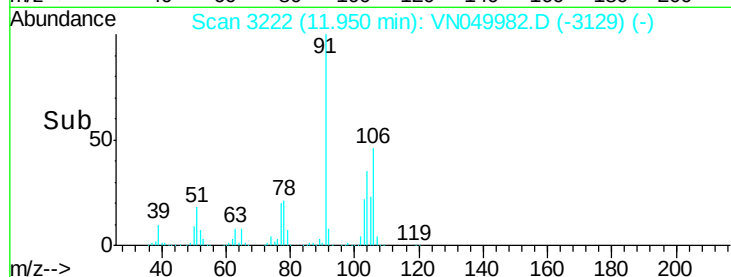
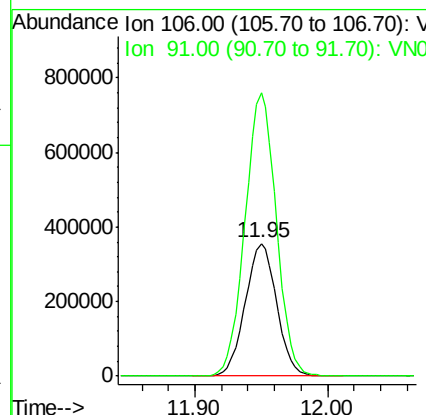
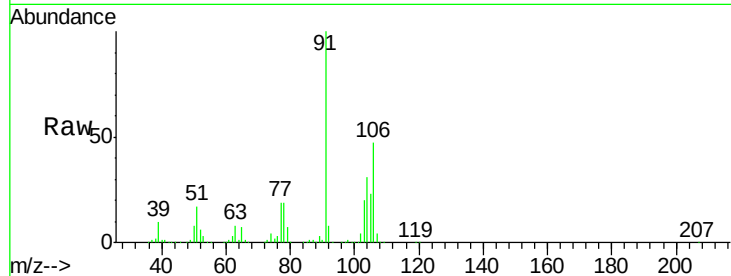
#69
o-Xylene
Concen: 52.09 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 585046
Ion Ratio Lower Upper
106 100
91 212.4 108.7 326.1

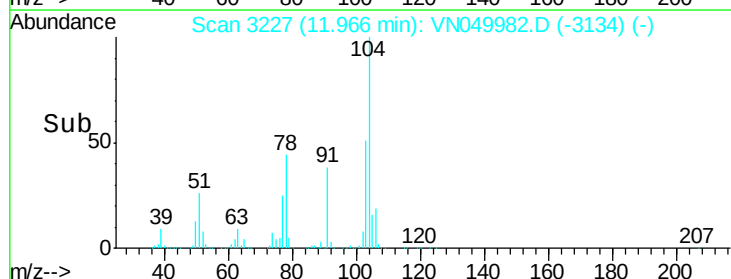
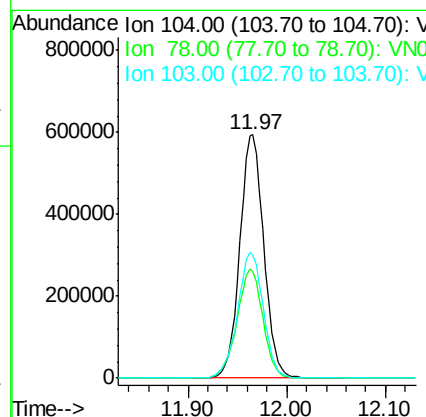
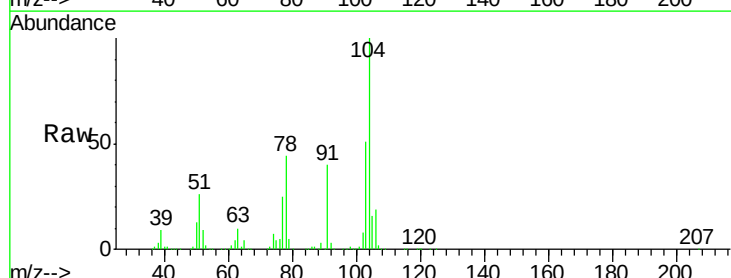
Manual Integrations
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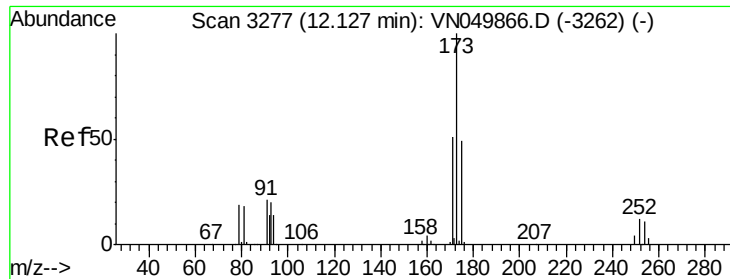
MMDadoda
7/23/2018 2:04:16 PM



#70
Styrene
Concen: 54.98 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion:104 Resp: 1000246
Ion Ratio Lower Upper
104 100
78 48.9 39.2 58.8
103 55.9 44.6 67.0





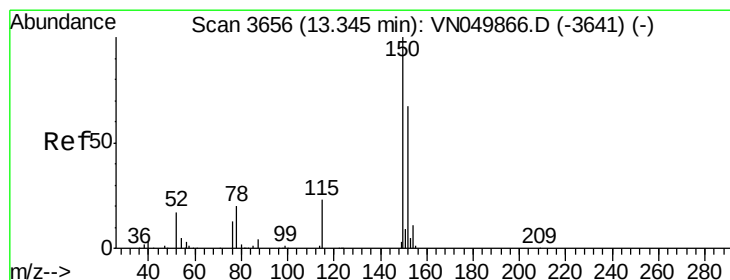
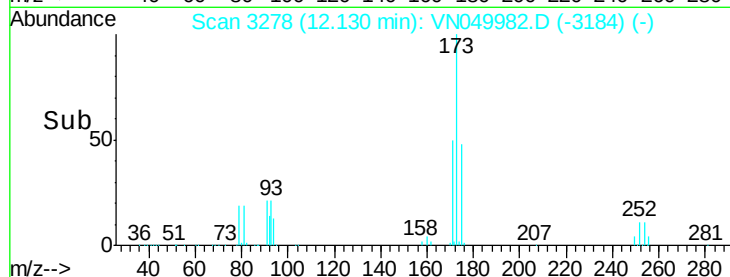
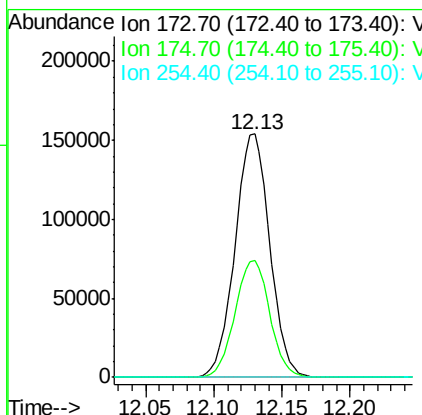
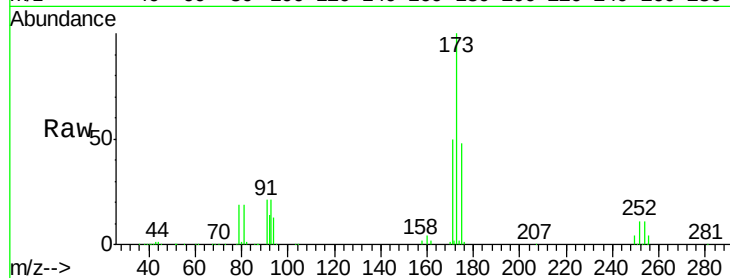
#71
Bromoform
Concen: 51.58 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.6	73.8
254	0.2	0.2	0.2

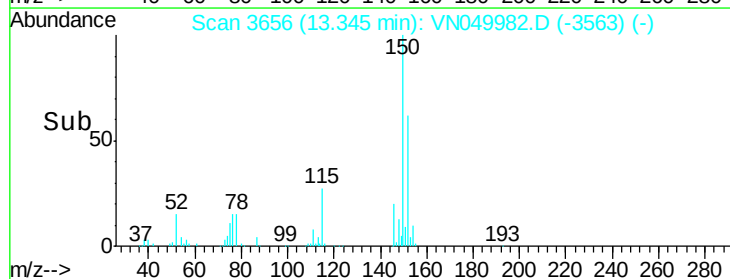
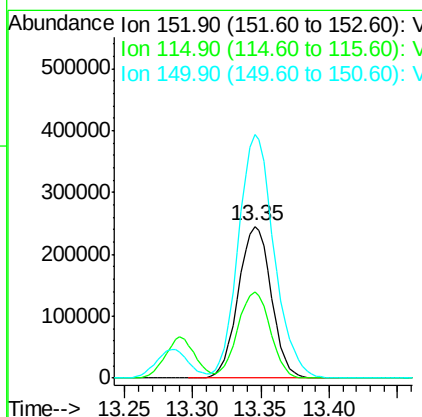
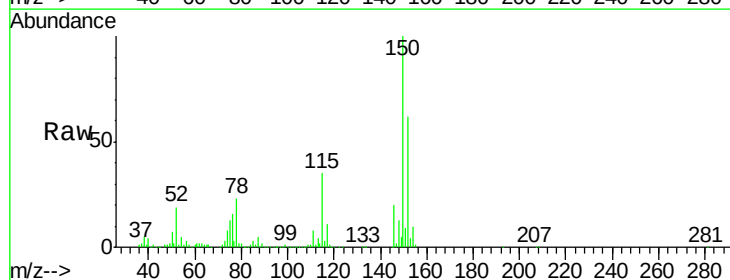
Manual Integrations
APPROVED

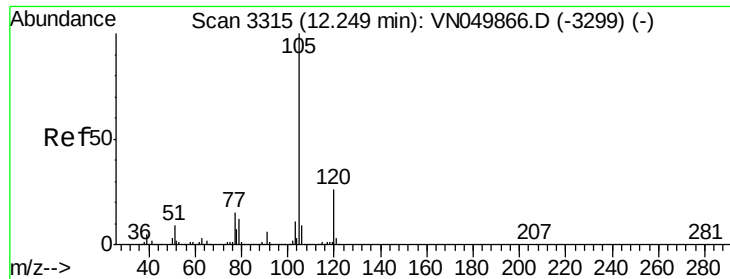
MMDadoda
7/23/2018 2:04:16 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	28.1	84.2
150	174.3	0.0	347.6





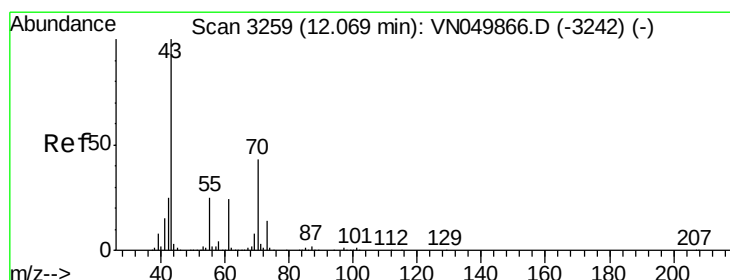
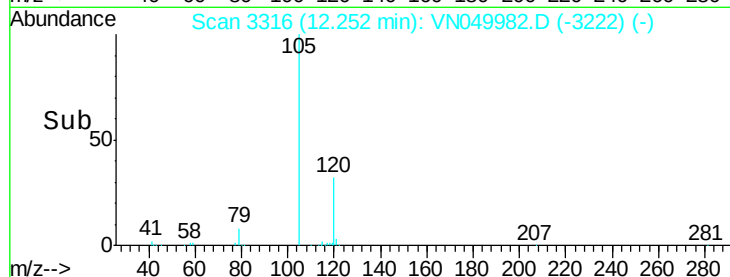
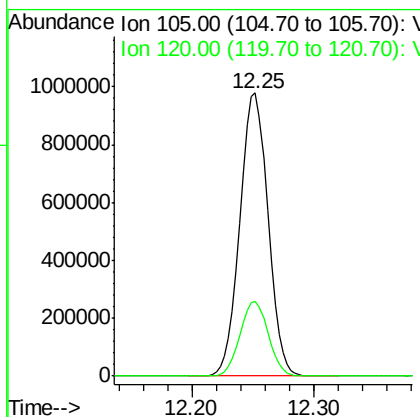
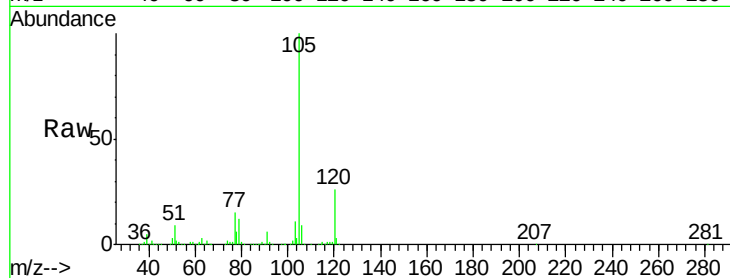
#73
Isopropylbenzene
Concen: 49.79 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:105 Resp: 1554514
Ion Ratio Lower Upper
105 100
120 26.5 13.3 39.8

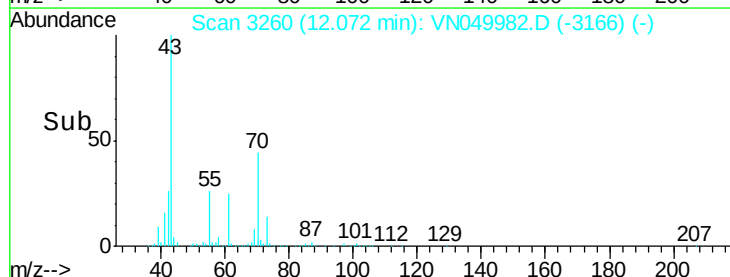
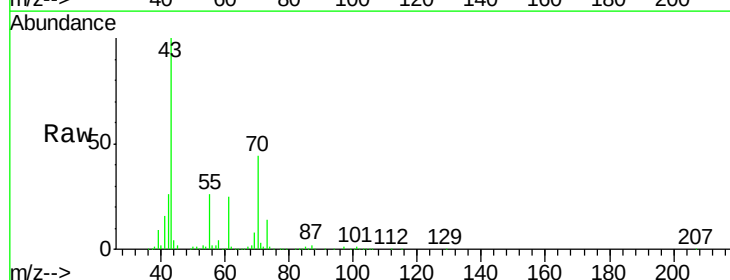
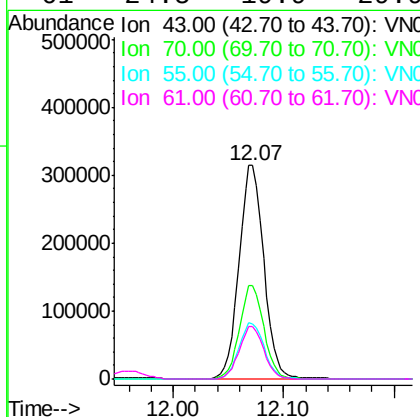
Manual Integrations
APPROVED

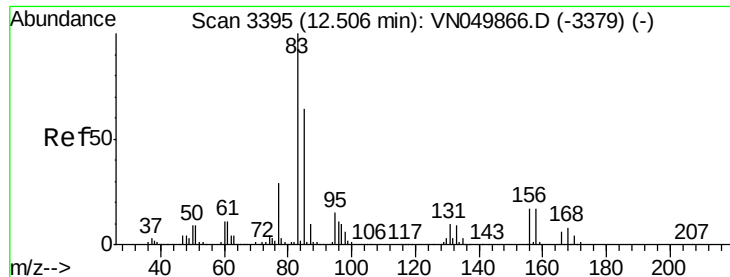
MMDadoda
7/23/2018 2:04:16 PM



#74
N-ethyl acetate
Concen: 51.40 ug/l
RT: 12.07 min Scan# 3260
Delta R.T. 0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion: 43 Resp: 488499
Ion Ratio Lower Upper
43 100
70 43.1 34.8 52.2
55 27.0 20.9 31.3
61 24.5 19.9 29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 46.28 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 432955
Ion Ratio Lower Upper

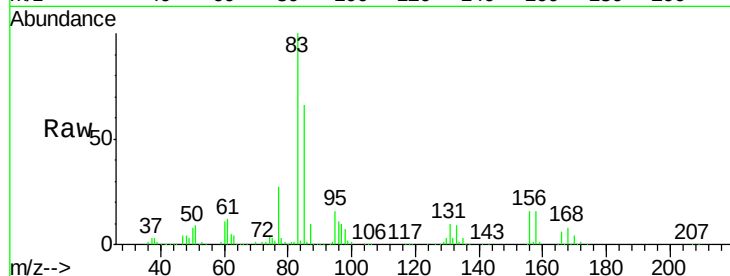
83 100

131 10.4 5.2 15.6

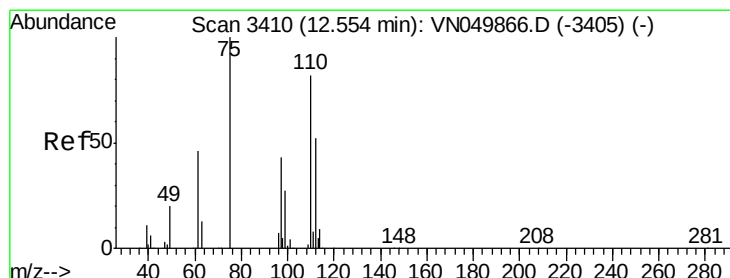
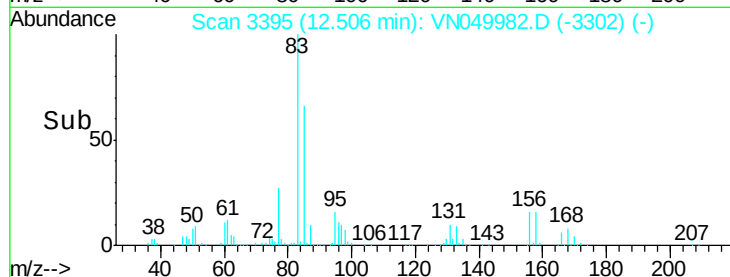
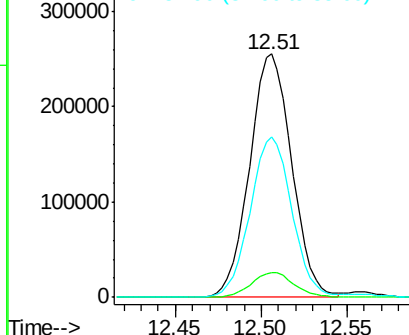
85 65.2 32.5 97.4

Manual Integrations
APPROVED

MMDadoda
7/23/2018 2:04:16 PM



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 44.54 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

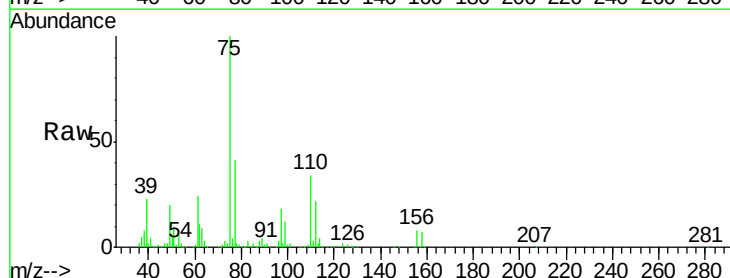
Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

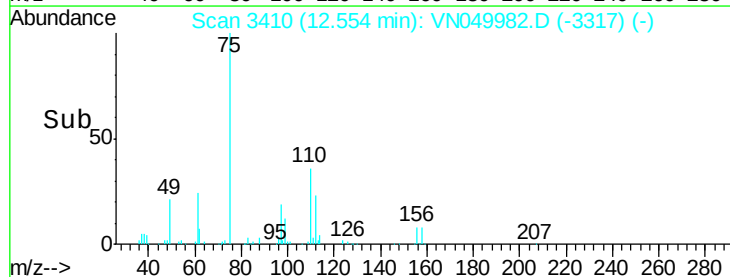
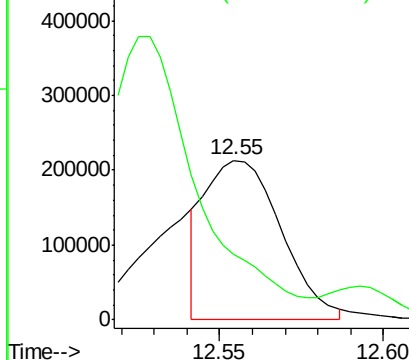
Tgt Ion: 75 Resp: 343385
Ion Ratio Lower Upper

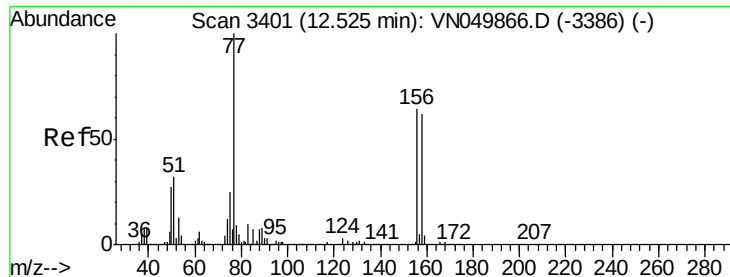
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 48.72 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

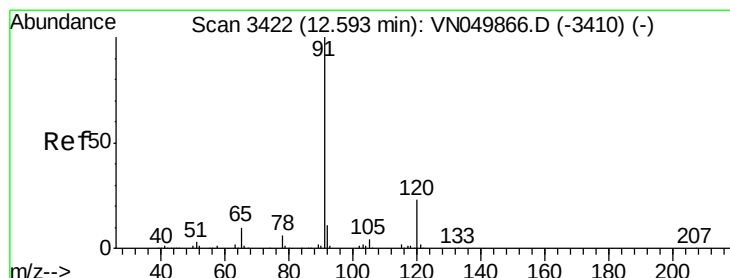
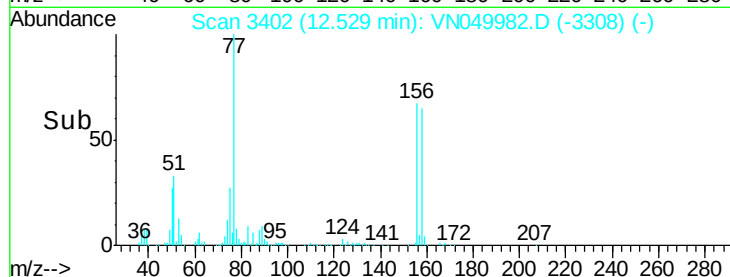
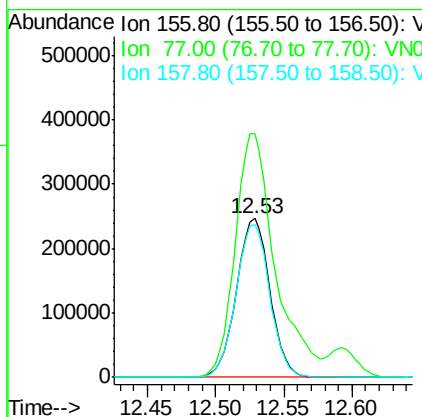
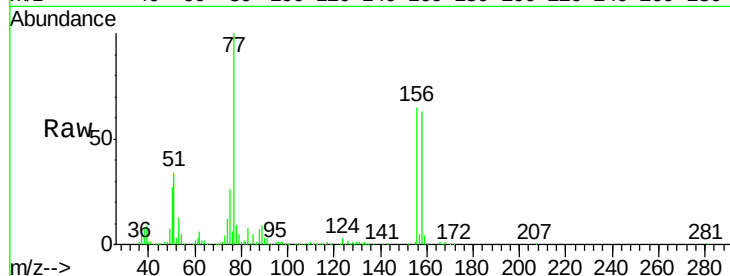
ClientSampled :

VSTDCCC050

Tot Ion:	156	Resp:	420010
Ion Ratio	Lower	Upper	
156	100		
77	183.5	90.2	270.6
158	97.1	49.1	147.3

Manual Integrations
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#78

n-propylbenzene

Concen: 50.96 ug/l

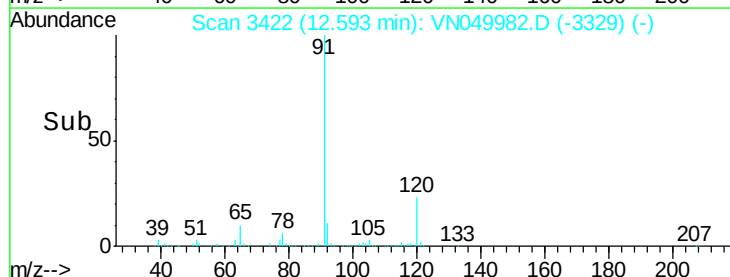
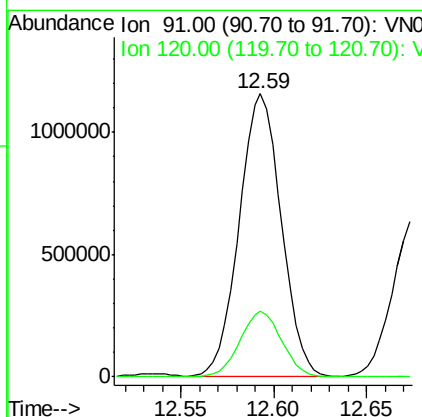
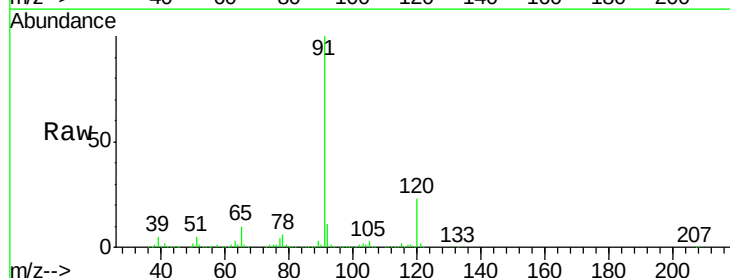
RT: 12.59 min Scan# 3422

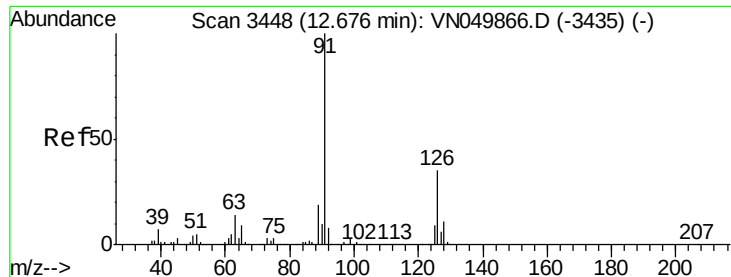
Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Tgt Ion:	91	Resp:	1808779
Ion Ratio	Lower	Upper	
91	100		
120	23.1	11.5	34.4





#79

2-Chlorotoluene

Concen: 50.30 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1096325

Ion Ratio Lower Upper

91 100

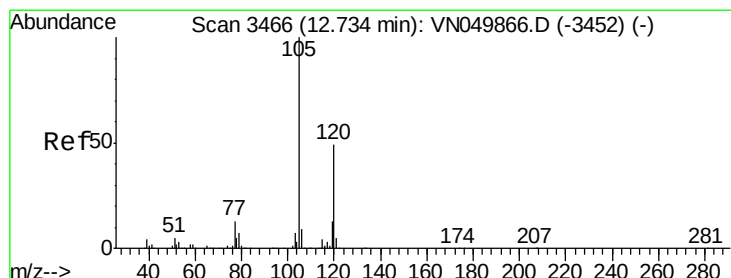
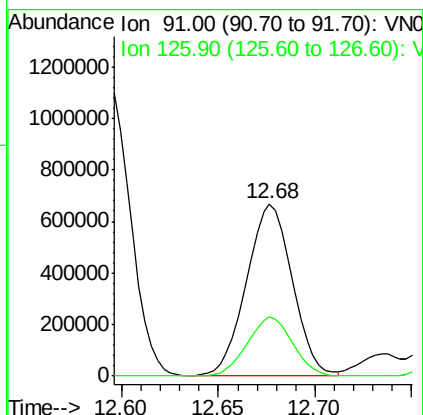
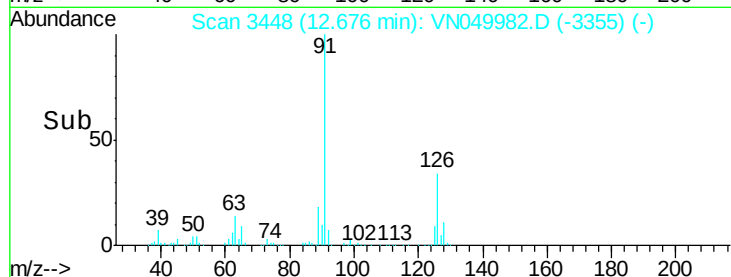
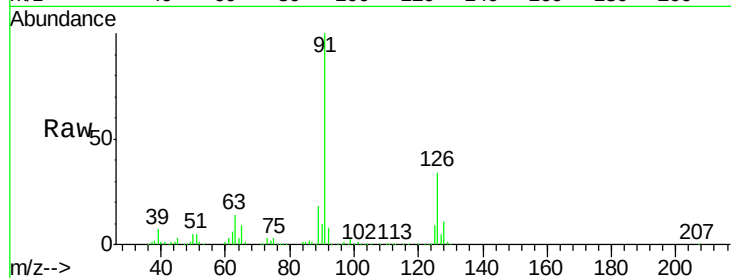
126 34.3 17.5 52.5

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 51.83 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049982.D

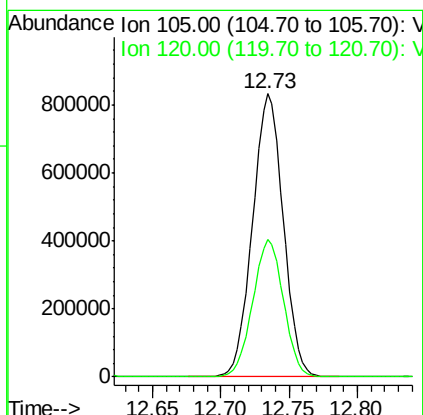
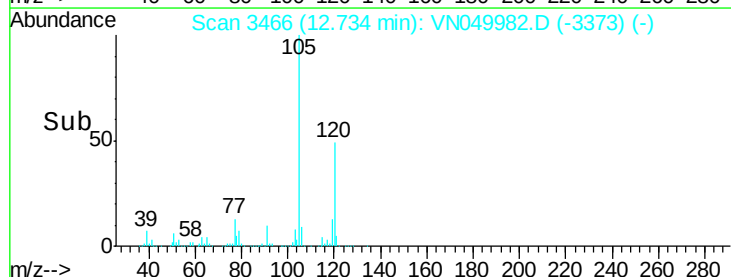
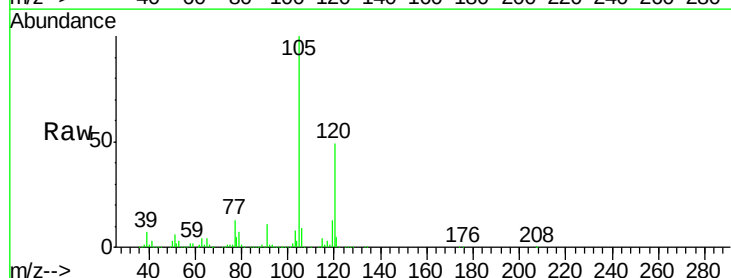
Acq: 21 Jul 2018 1:21

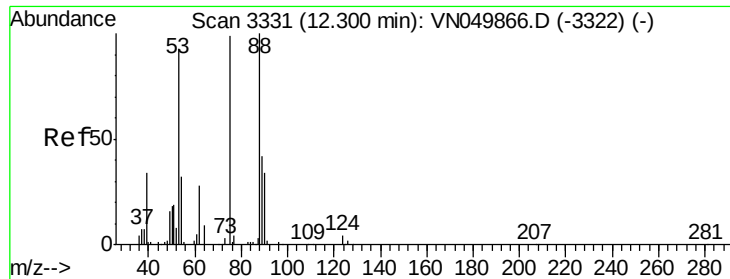
Tgt Ion:105 Resp: 1297111

Ion Ratio Lower Upper

105 100

120 48.7 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 46.23 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 113983

Ion Ratio Lower Upper

75 100

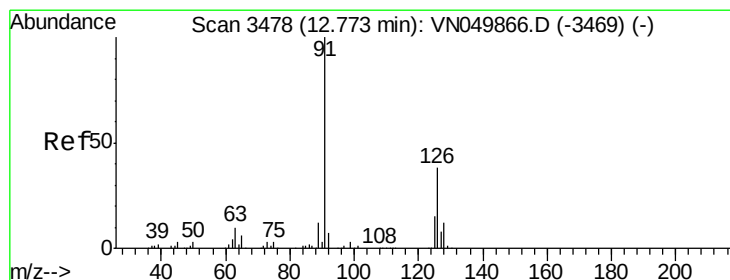
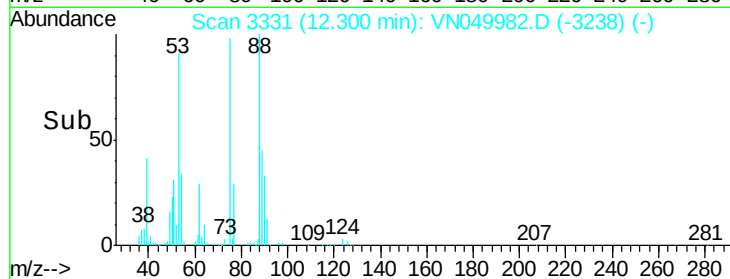
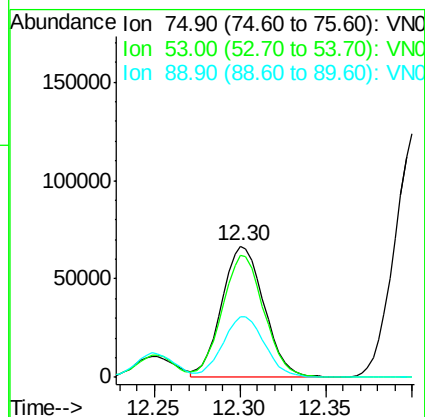
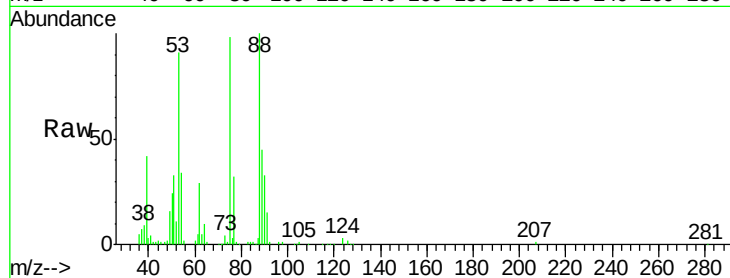
53 92.3 73.9 110.9

89 45.7 35.9 53.9

Manual Integrations
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#82

4-Chlorotoluene

Concen: 50.77 ug/l

RT: 12.78 min Scan# 3479

Delta R.T. 0.00 min

Lab File: VN049982.D

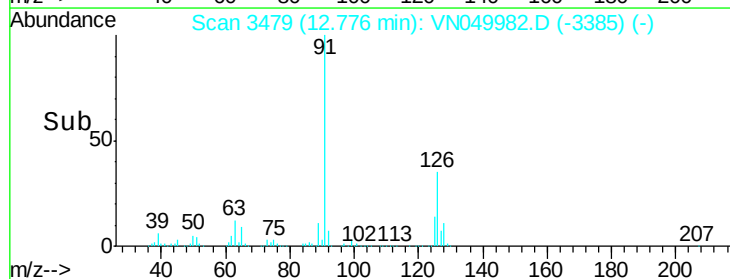
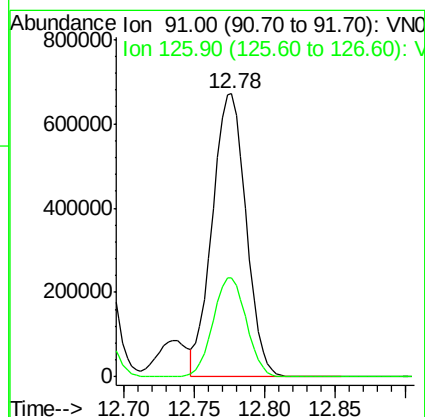
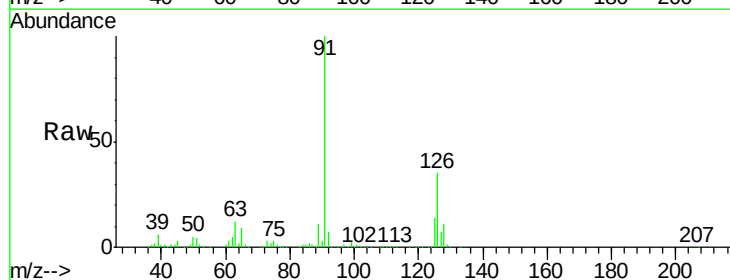
Acq: 21 Jul 2018 1:21

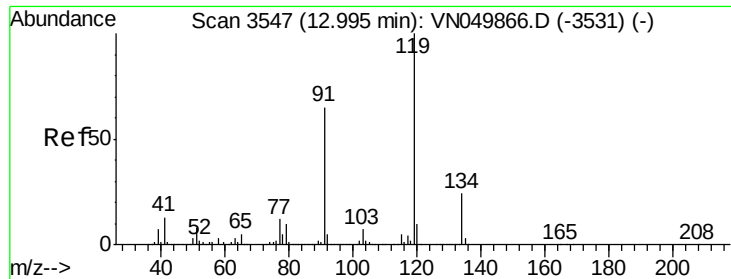
Tgt Ion: 91 Resp: 1110142

Ion Ratio Lower Upper

91 100

126 34.8 17.2 51.6





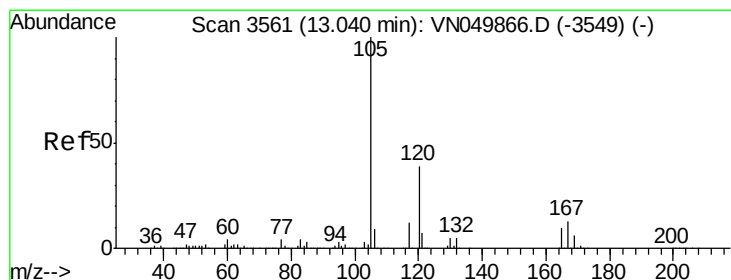
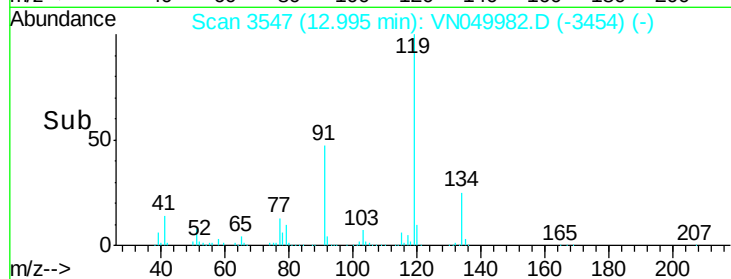
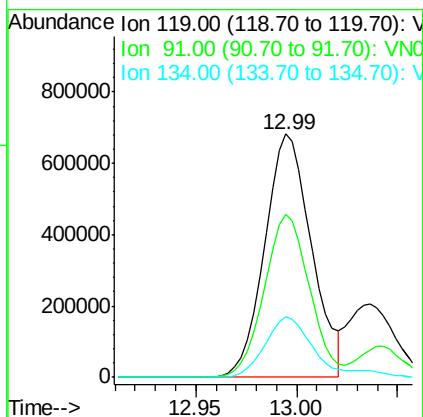
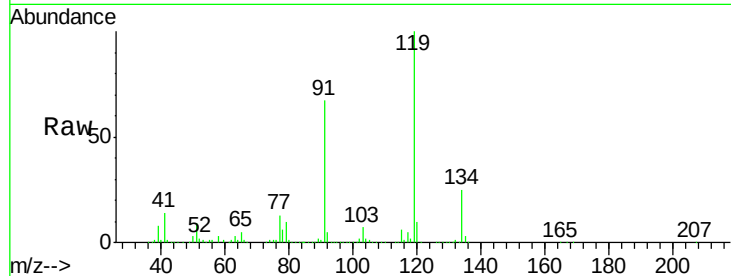
#83
 tert-Butylbenzene
 Concen: 49.97 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.0	96.2
134	26.7	12.8	38.4

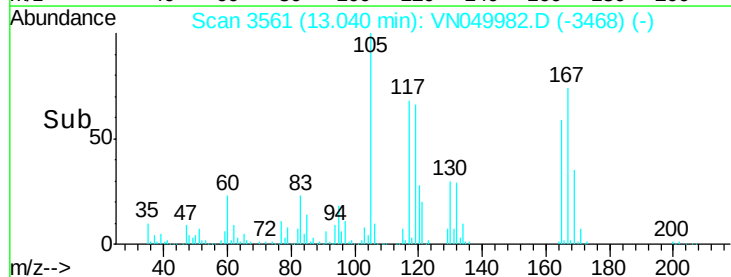
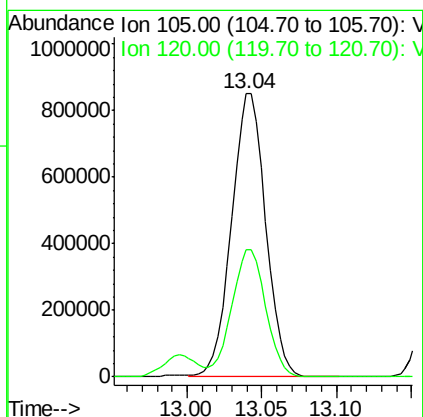
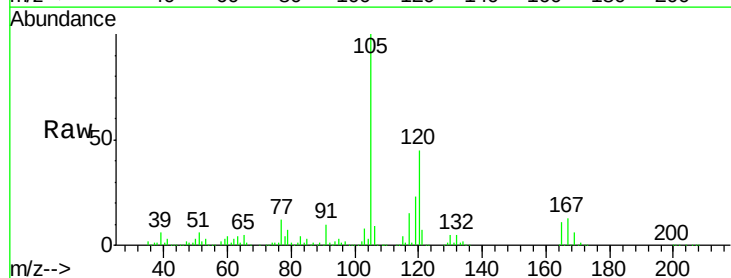
Manual Integrations
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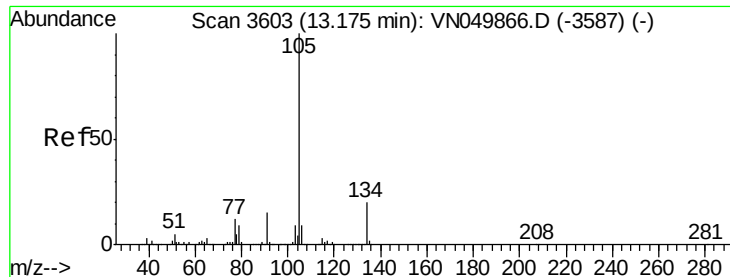
MMDadoda
 7/23/2018 2:04:16 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 53.25 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.7	68.1





#85

sec-Butylbenzene

Concen: 51.65 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion:105 Resp: 1500120

Ion Ratio Lower Upper

105 100

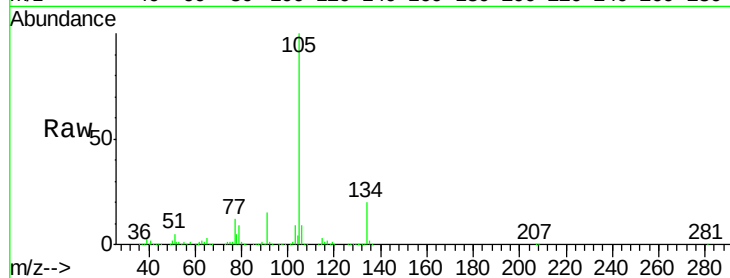
134 20.1 10.1 30.1

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

1000000

800000

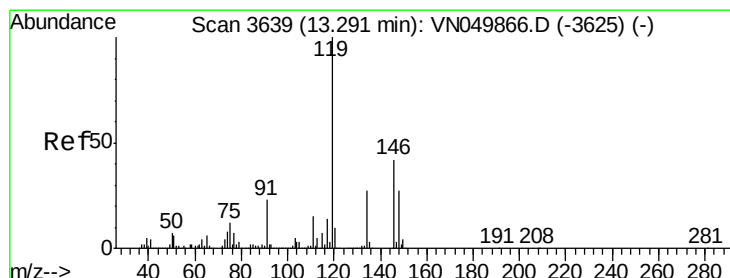
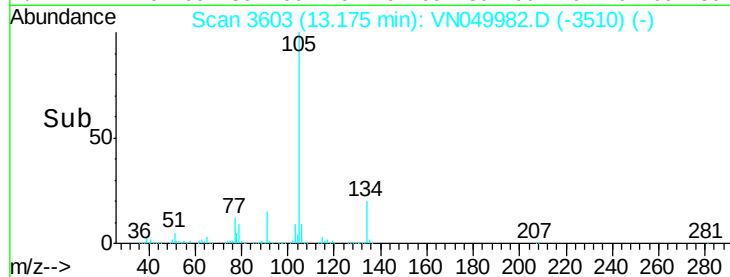
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 52.67 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

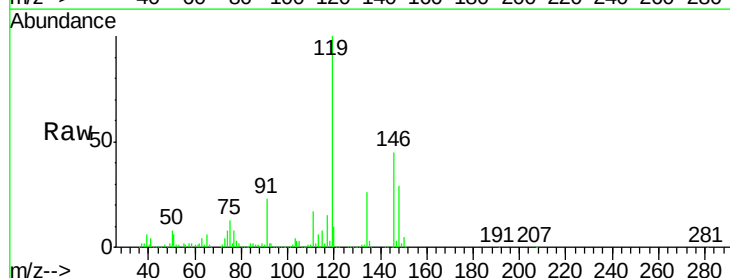
Tgt Ion:119 Resp: 1304070

Ion Ratio Lower Upper

119 100

134 26.6 13.3 39.9

91 23.0 11.4 34.1



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

13.29

1200000

1000000

800000

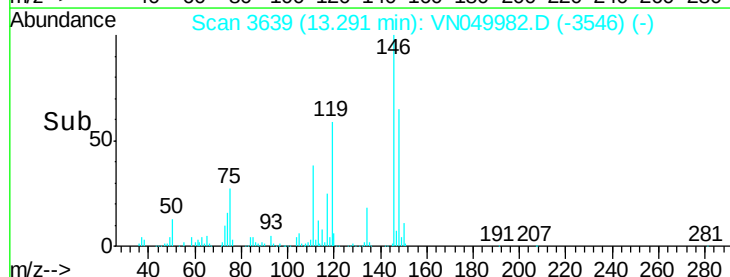
600000

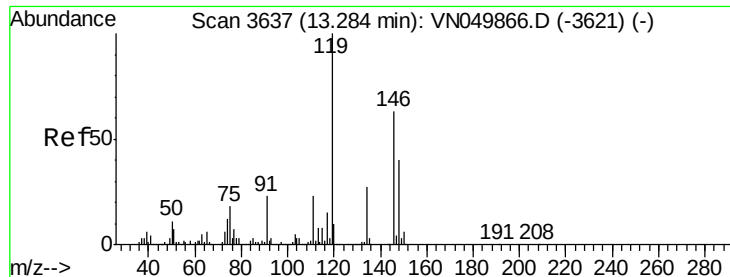
400000

200000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 48.76 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. -0.00 min

Lab File: VN049982.D

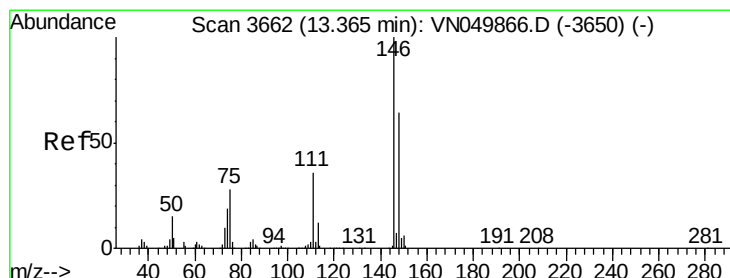
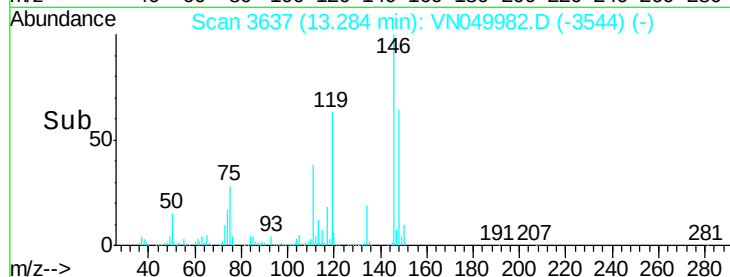
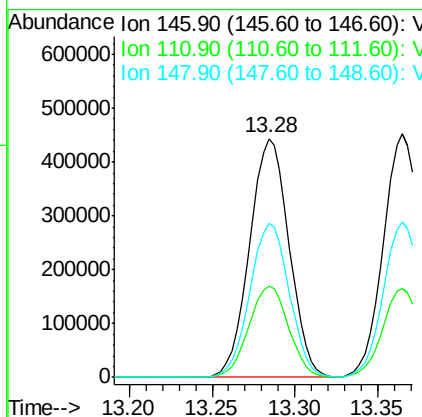
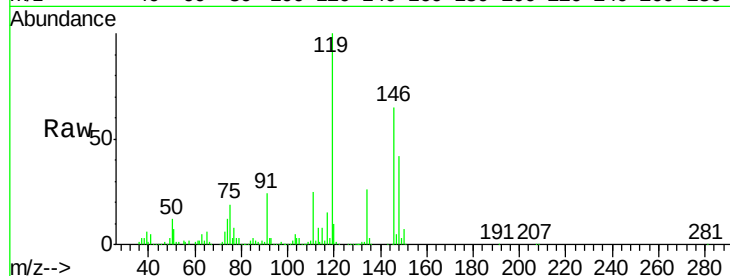
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.0	57.0
148	64.6	32.5	97.5

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 48.21 ug/l

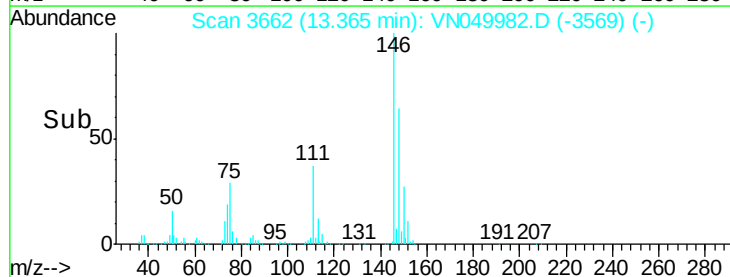
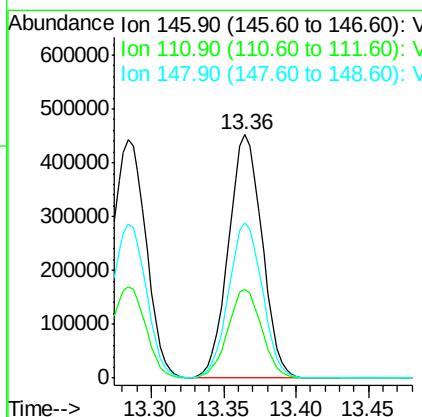
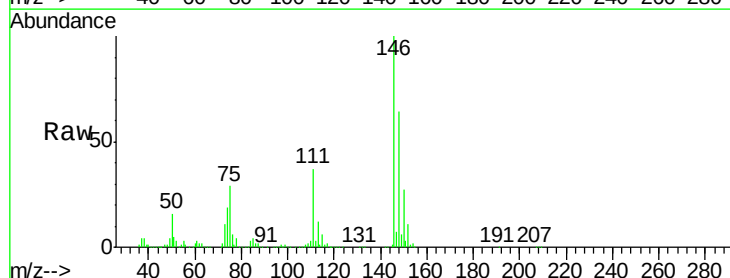
RT: 13.36 min Scan# 3662

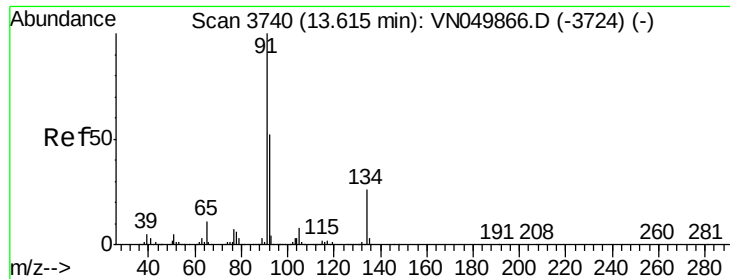
Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	18.9	56.5
148	64.2	32.1	96.3





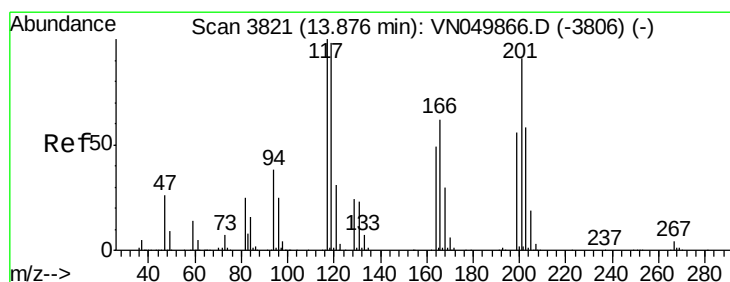
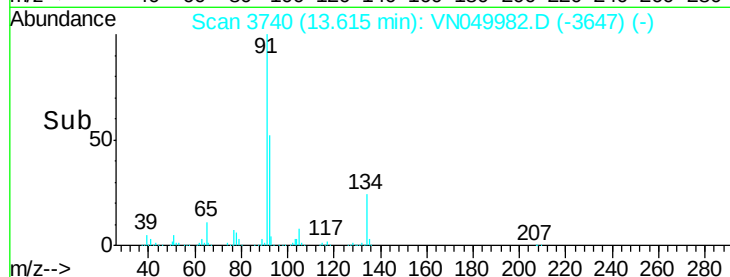
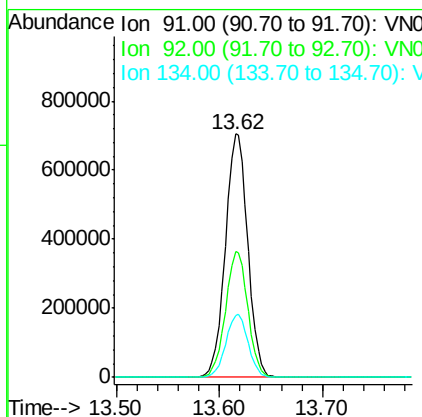
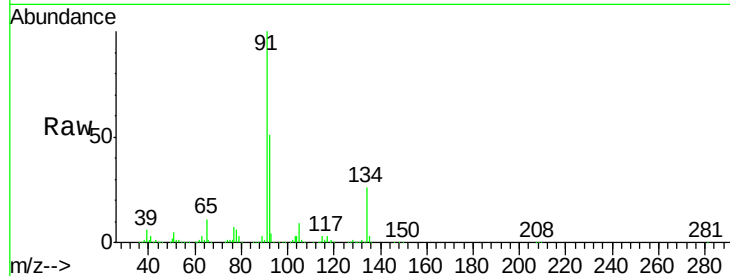
#89
n-Butylbenzene
Concen: 52.03 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	25.8	77.3
134	25.7	13.0	38.9

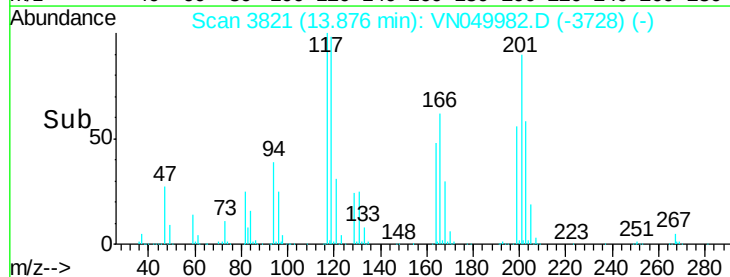
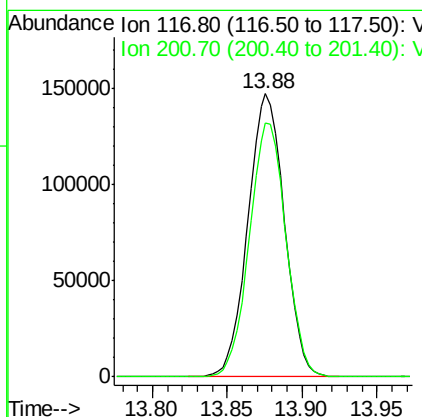
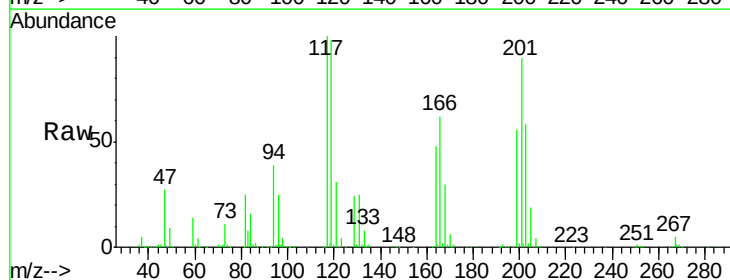
Manual Integrations
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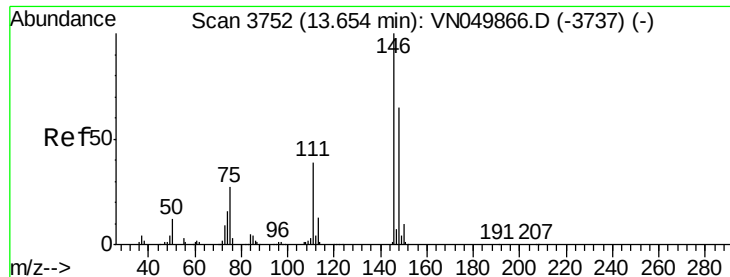
MMDadoda
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#90
Hexachloroethane
Concen: 44.85 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN049982.D
Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.9	45.3	135.8





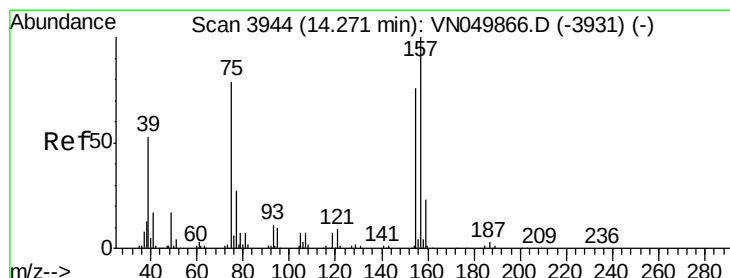
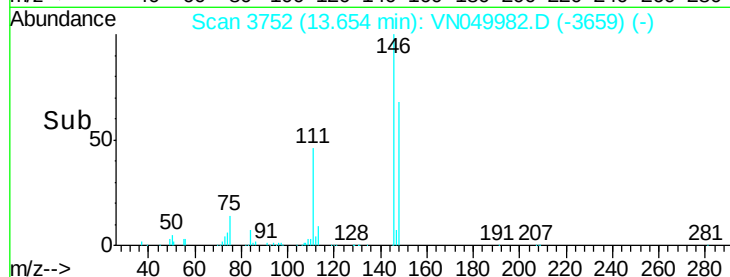
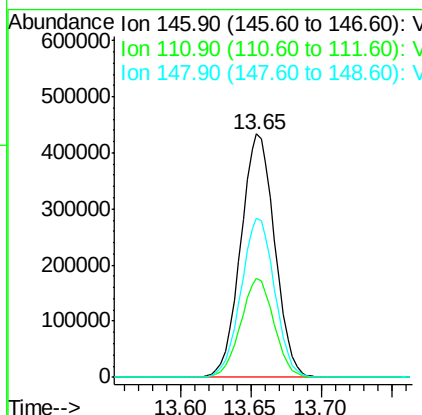
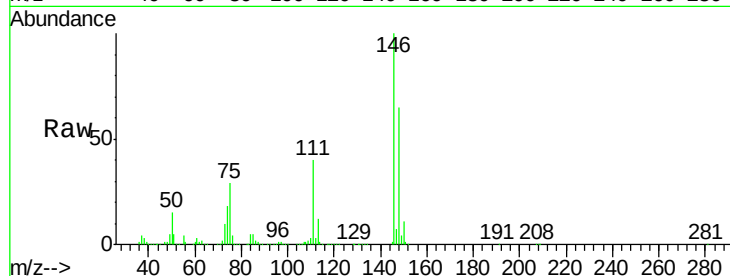
#91
 1,2-Dichlorobenzene
 Concen: 49.47 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.7	59.1
148	64.7	32.0	96.2

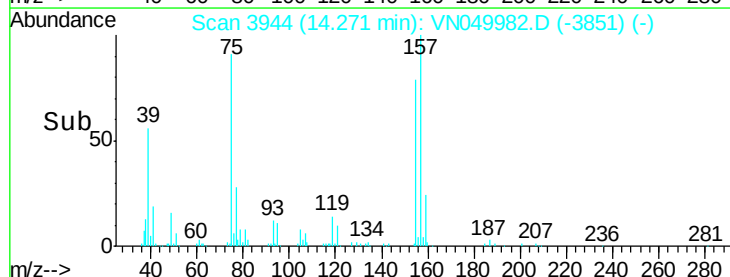
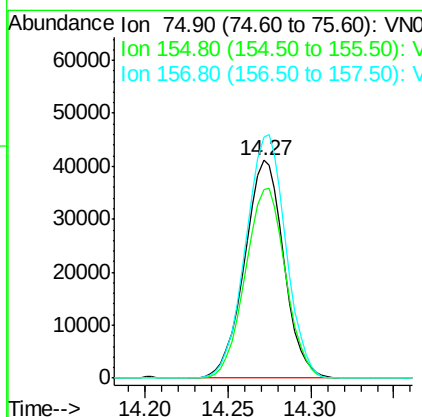
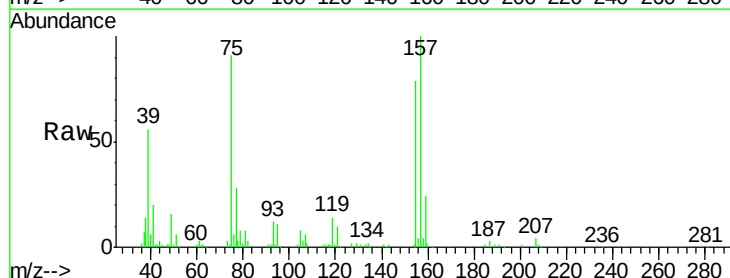
Manual Integrations
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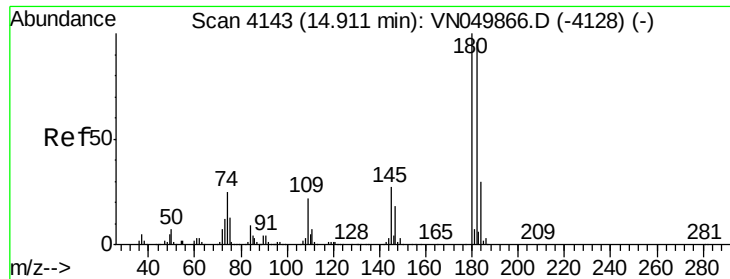
MMDadoda
 7/23/2018 2:04:16 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.90 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.3	45.7	137.1
157	114.4	56.9	170.7





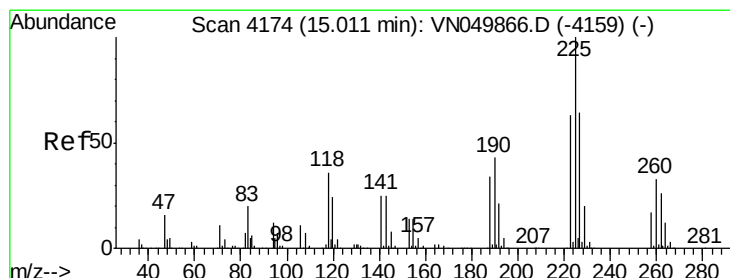
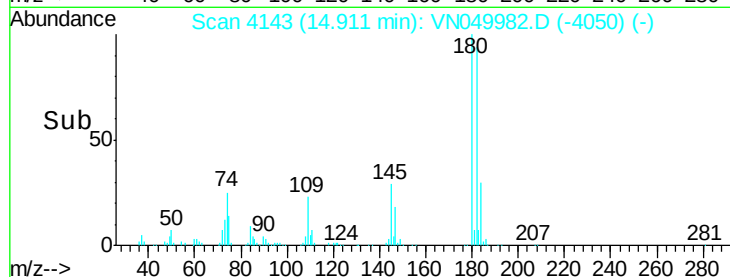
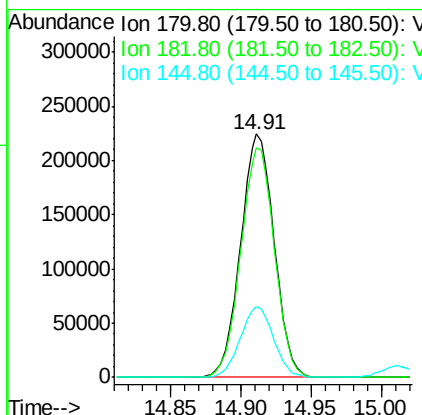
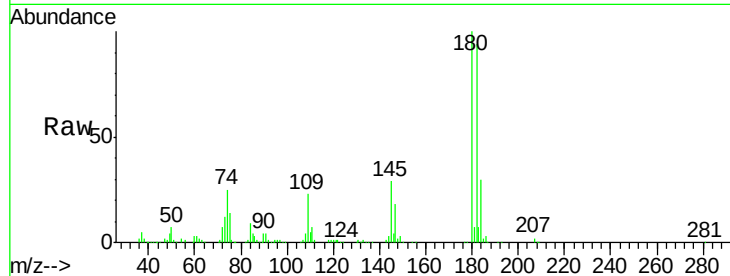
#93
 1,2,4-Trichlorobenzene
 Concen: 46.16 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.9	47.3	141.9	
145	28.6	14.4	43.0	

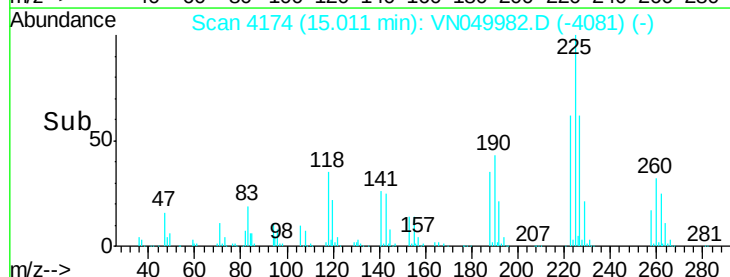
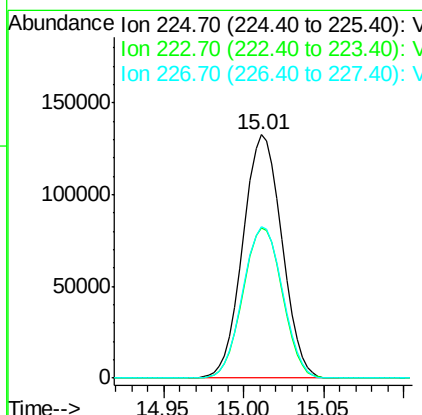
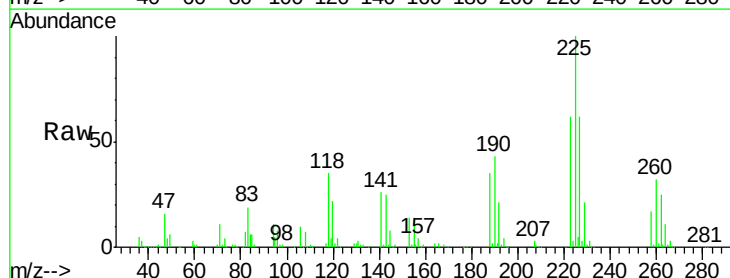
Manual Integrations
 APPROVED

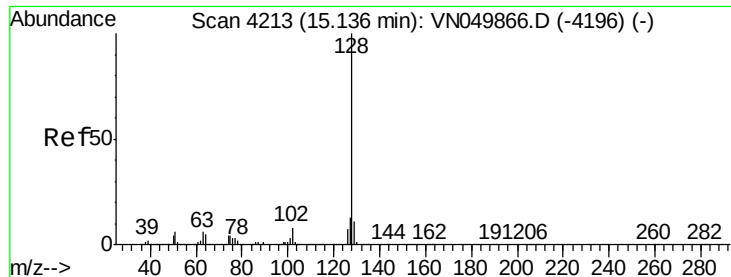
MMDadoda
 7/23/2018 2:04:16 PM



#94
 Hexachlorobutadiene
 Concen: 45.66 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049982.D
 Acq: 21 Jul 2018 1:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.4	30.9	92.7	
227	63.5	31.8	95.4	





#95

Naphthalene

Concen: 42.84 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Instrument :

MSVOA_N

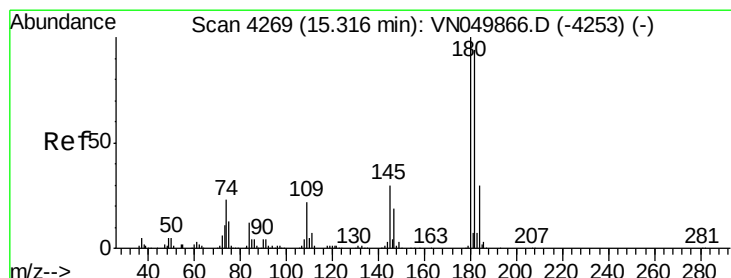
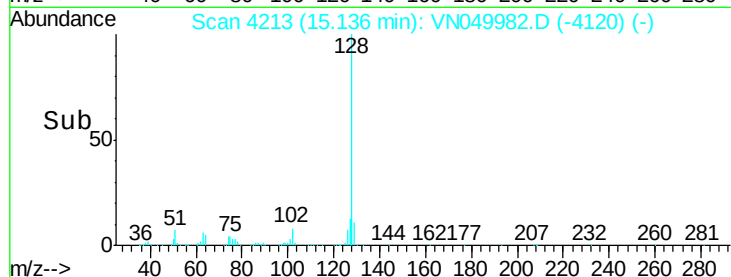
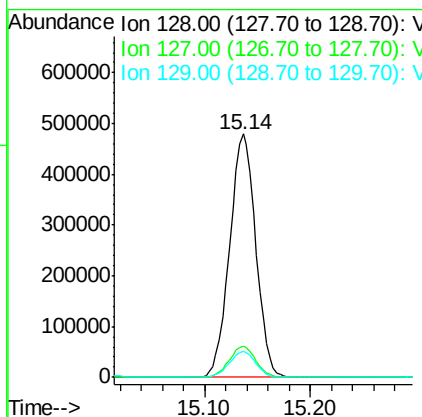
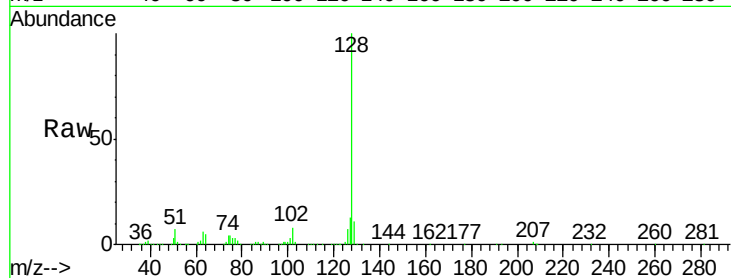
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	820204
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.4	15.6
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
7/23/2018 2:04:16 PM



#96

1,2,3-Trichlorobenzene

Concen: 52.67 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN049982.D

Acq: 21 Jul 2018 1:21

Tgt Ion:	180	Resp:	373174
Ion Ratio	Lower	Upper	
180	100		
182	96.0	47.4	142.2
145	30.4	15.2	45.6

