

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049788.D
 Acq On : 13 Jul 2018 10:06
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 7/16/2018 11:02:42 AM

Quant Time: Jul 13 23:58:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1358483	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1898505	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1749456	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	920901	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	688842	43.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.18%	
35) Dibromofluoromethane	7.59	113	662643	46.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.60%	
50) Toluene-d8	10.09	98	2238554	45.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.40%	
62) 4-Bromofluorobenzene	12.40	95	829928	47.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.88%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	575300	48.86	ug/l	97
3) Chloromethane	2.06	50	740626	47.47	ug/l	100
4) Vinyl Chloride	2.18	62	839473	48.70	ug/l	99
5) Bromomethane	2.56	94	506447	47.36	ug/l	99
6) Chloroethane	2.70	64	542487	44.90	ug/l	98
7) Trichlorofluoromethane	3.02	101	1190001	46.20	ug/l	97
8) Diethyl Ether	3.41	74	418754	45.37	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	766930	45.87	ug/l	99
10) Methyl Iodide	3.95	142	1021215	48.06	ug/l	99
11) Tert butyl alcohol	4.80	59	219405	207.44	ug/l	98
12) 1,1-Dichloroethene	3.73	96	661671	45.04	ug/l	100
13) Acrolein	3.61	56	185726	199.92	ug/l	99
14) Allyl chloride	4.32	41	1106713	46.16	ug/l	99
15) Acrylonitrile	4.99	53	1162126	219.40	ug/l	99
16) Acetone	3.82	43	946176	243.22	ug/l	99
17) Carbon Disulfide	4.05	76	1775277	47.15	ug/l	100
18) Methyl Acetate	4.33	43	597050	45.16	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	1877380	46.07	ug/l	100
20) Methylene Chloride	4.55	84	775584	47.80	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	721373	44.93	ug/l	99
22) Diisopropyl ether	5.96	45	2389080	48.51	ug/l	96
23) Vinyl Acetate	5.90	43	7760136	235.14	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1411629	45.63	ug/l	99
25) 2-Butanone	6.84	43	1386389	225.13	ug/l	99
26) 2,2-Dichloropropane	6.82	77	1222010	47.59	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	856333	46.63	ug/l	99
28) Bromochloromethane	7.19	49	651417	46.29	ug/l	99
29) Tetrahydrofuran	7.21	42	836632	216.35	ug/l	99
30) Chloroform	7.37	83	1458859	45.76	ug/l	99
31) Cyclohexane	7.65	56	1166879	47.38	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	1245482	46.00	ug/l	99
36) 1,1-Dichloropropene	7.79	75	1077403	49.25	ug/l	100
37) Ethyl Acetate	6.93	43	589165	45.50	ug/l	99
38) Carbon Tetrachloride	7.77	117	1103950	48.27	ug/l	100

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1162636	50.42	ug/l	98
40) Benzene	8.04	78	3200248	48.90	ug/l	100
41) Methacrylonitrile	7.17	41	346712	47.33	ug/l	97
42) 1,2-Dichloroethane	8.12	62	1015782	47.45	ug/l	100
43) Isopropyl Acetate	8.17	43	1081323	46.46	ug/l	95
44) Trichloroethene	8.83	130	843668	47.87	ug/l	100
45) 1,2-Dichloropropane	9.12	63	850721	48.37	ug/l	99
46) Dibromomethane	9.21	93	492860	47.18	ug/l	99
47) Bromodichloromethane	9.40	83	1113355	48.40	ug/l	99
48) Methyl methacrylate	9.20	41	558311	47.97	ug/l	99
49) 1,4-Dioxane	9.20	88	134412	881.45	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	2992876	236.81	ug/l	100
52) Toluene	10.16	92	1995151	50.94	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	1114537	50.37	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	1279374	50.76	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	725707	48.95	ug/l	99
56) Ethyl methacrylate	10.43	69	890354	50.36	ug/l	98
57) 1,3-Dichloropropane	10.71	76	1199051	48.05	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	2173517	256.33	ug/l	100
59) 2-Hexanone	10.75	43	2094801	249.33	ug/l	100
60) Dibromochloromethane	10.90	129	842487	49.10	ug/l	99
61) 1,2-Dibromoethane	11.01	107	690498	48.44	ug/l	99
64) Tetrachloroethene	10.63	164	756226	47.61	ug/l	99
65) Chlorobenzene	11.43	112	2214665	48.59	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	850369	49.59	ug/l	99
67) Ethyl Benzene	11.51	91	3840729	51.46	ug/l	99
68) m/p-Xylenes	11.62	106	2939615	104.94	ug/l	99
69) o-Xylene	11.95	106	1419505	52.46	ug/l	98
70) Styrene	11.96	104	2343860	54.53	ug/l	100
71) Bromoform	12.13	173	564982	48.77	ug/l	99
73) Isopropylbenzene	12.25	105	3857100	50.40	ug/l	100
74) N-amyl acetate	12.07	43	959776	48.21	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	858560	48.63	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	704802m	43.08	ug/l	
77) Bromobenzene	12.53	156	965027	47.53	ug/l	99
78) n-propylbenzene	12.59	91	4429817	51.34	ug/l	100
79) 2-Chlorotoluene	12.68	91	2618578	49.59	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	3134730	51.54	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	245041	48.37	ug/l	99
82) 4-Chlorotoluene	12.77	91	2657172	50.73	ug/l	99
83) tert-Butylbenzene	12.99	119	2759000	50.70	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	3178529	52.11	ug/l	100
85) sec-Butylbenzene	13.17	105	3707660	51.99	ug/l	100
86) p-Isopropyltoluene	13.29	119	3216239	53.29	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1715186	48.72	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	1668290	48.75	ug/l	99
89) n-Butylbenzene	13.62	91	2686869	53.93	ug/l	99
90) Hexachloroethane	13.88	117	606633	51.98	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1639559	47.72	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	120496	44.49	ug/l	98

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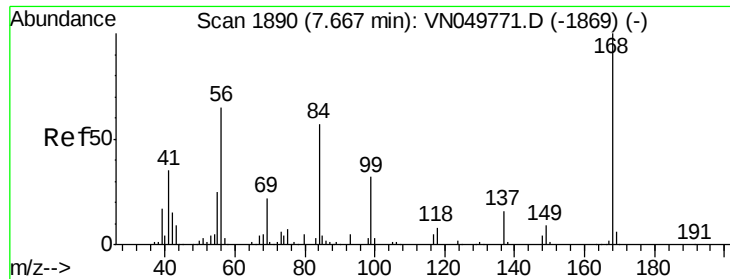
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	866701	46.16	ug/l	100
94) Hexachlorobutadiene	15.01	225	539506	51.34	ug/l	99
95) Naphthalene	15.14	128	1684483	42.06	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	841820	50.53	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1358483

Ion Ratio Lower Upper

168 100

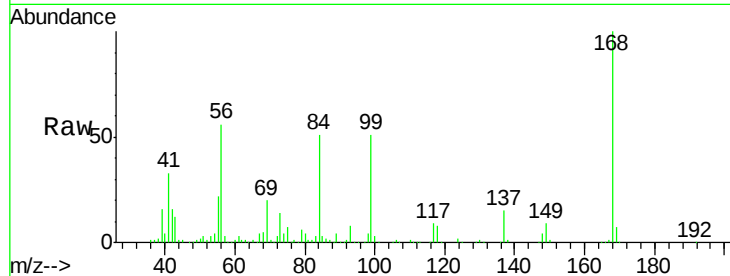
99 50.9 40.6 61.0

Manual Integrations

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7/16/2018 11:02:42 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

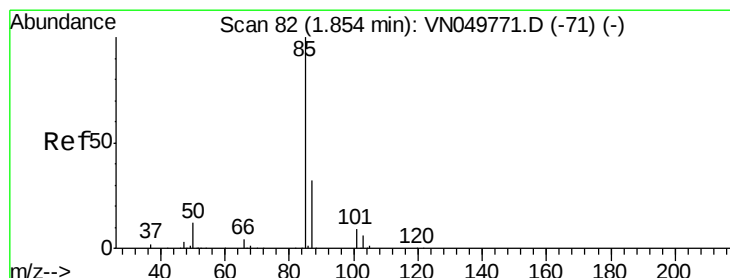
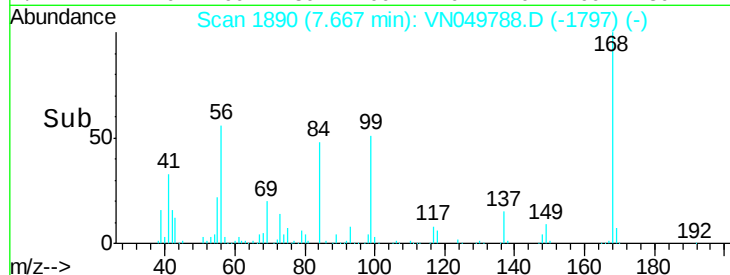
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 48.86 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049788.D

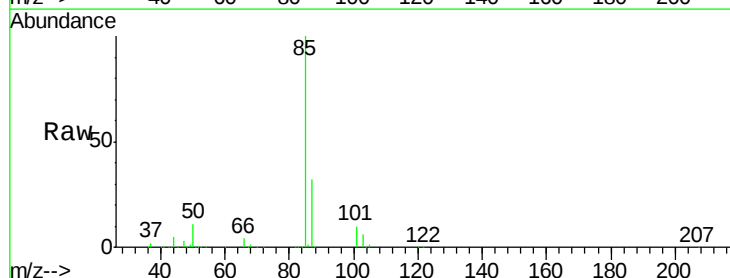
Acq: 13 Jul 2018 10:06

Tgt Ion: 85 Resp: 575300

Ion Ratio Lower Upper

85 100

87 32.1 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

500000

400000

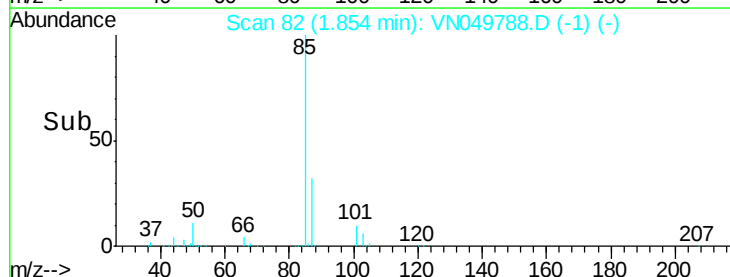
300000

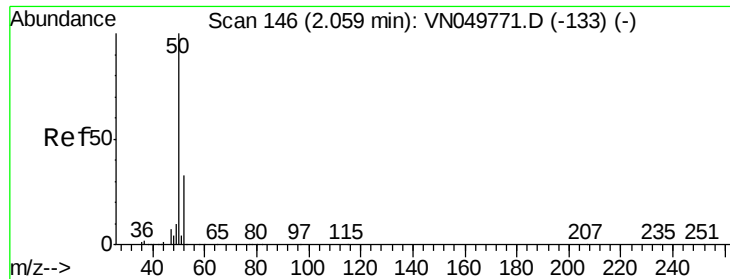
200000

100000

0

Time--> 1.80 1.85 1.90 1.95





#3

Chloromethane

Concen: 47.47 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 740626

Ion Ratio Lower Upper

50 100

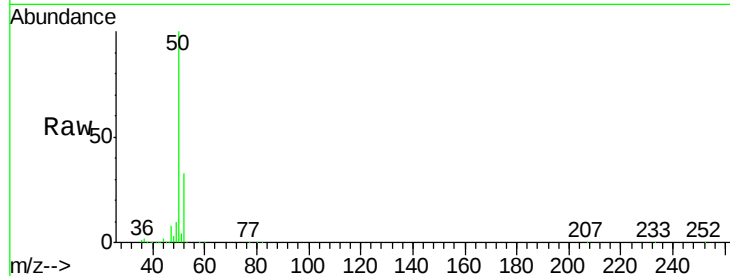
52 32.5 26.1 39.1

Manual Integrations

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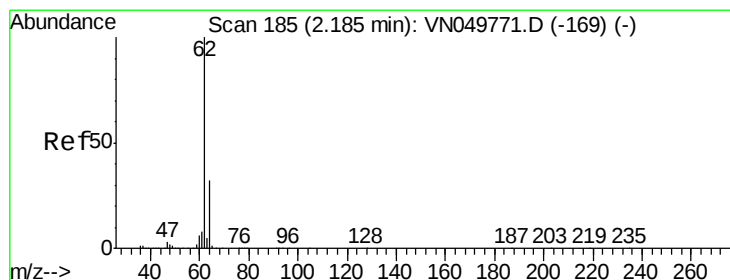
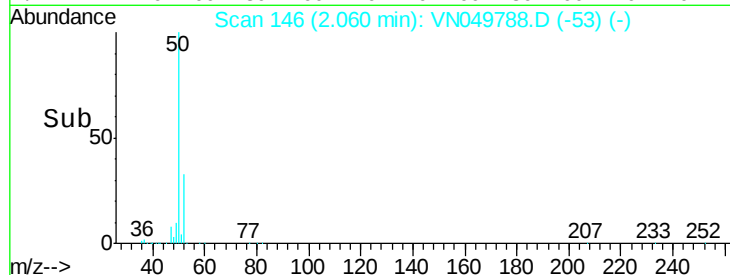
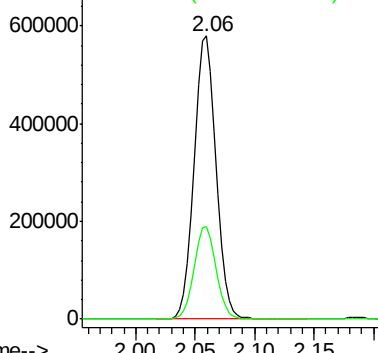
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 48.70 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049788.D

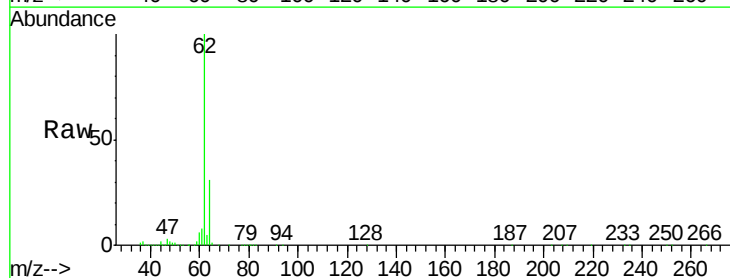
Acq: 13 Jul 2018 10:06

Tgt Ion: 62 Resp: 839473

Ion Ratio Lower Upper

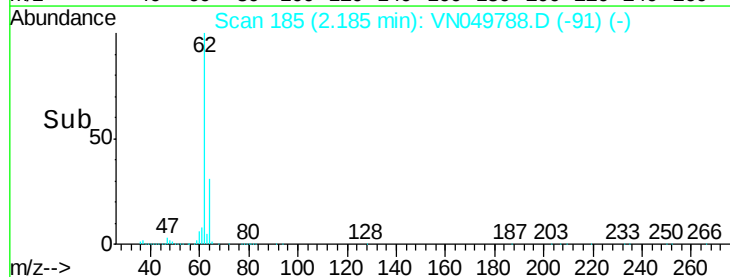
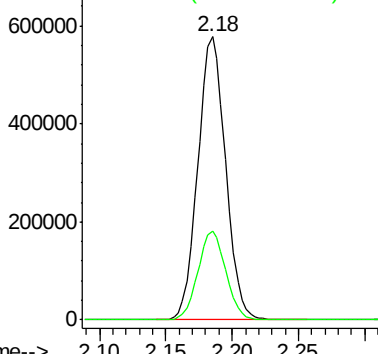
62 100

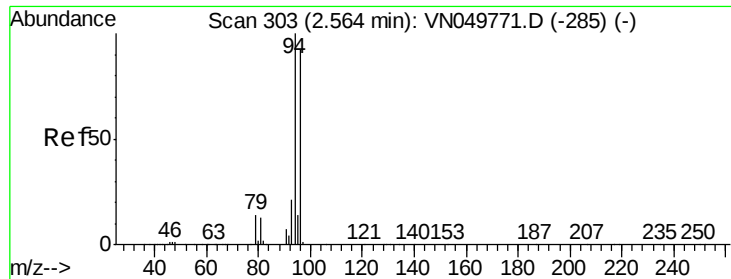
64 31.3 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 47.36 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 94 Resp: 506447

Ion Ratio Lower Upper

94 100

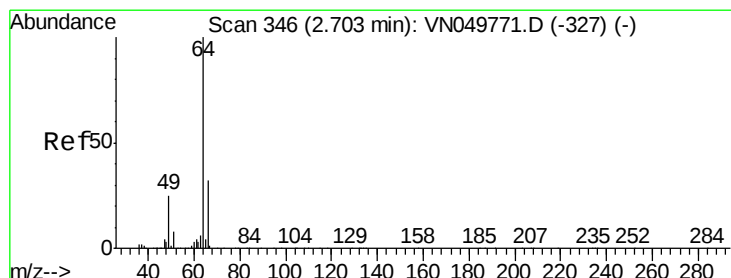
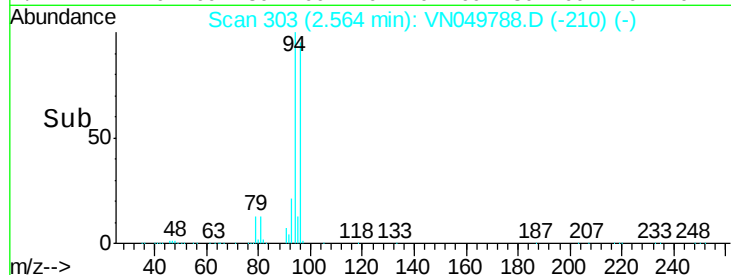
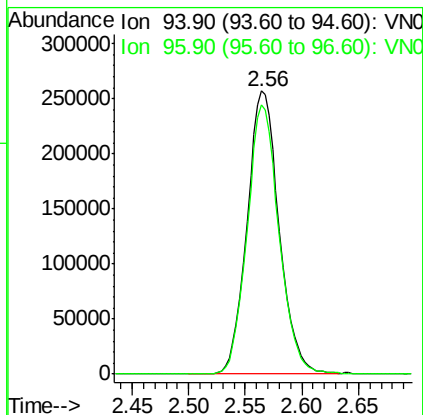
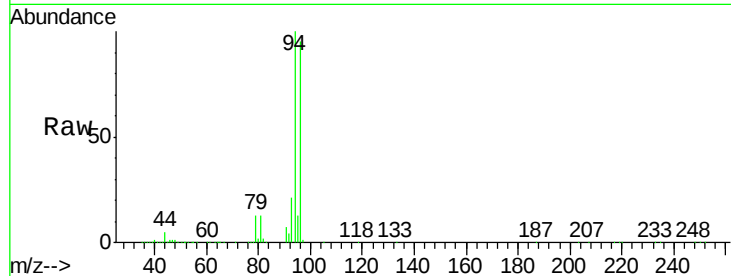
96 95.2 75.7 113.5

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#6

Chloroethane

Concen: 44.90 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049788.D

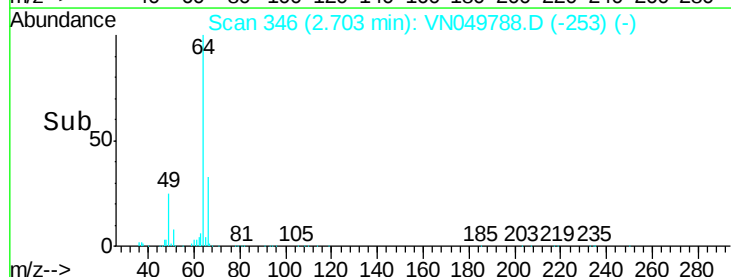
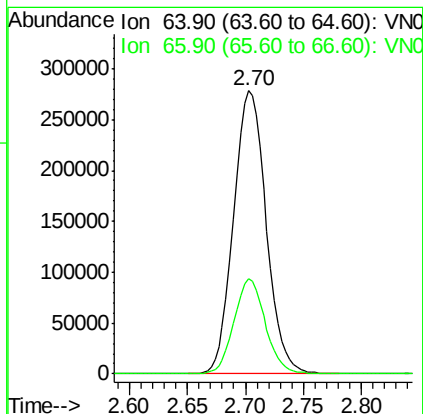
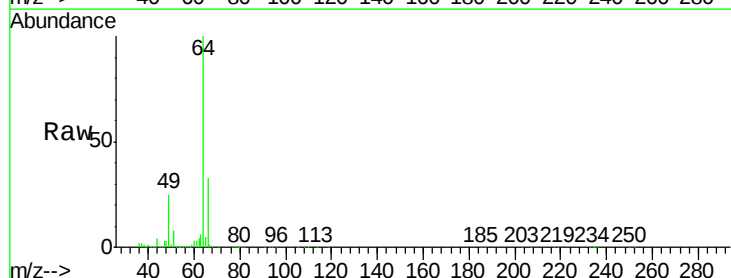
Acq: 13 Jul 2018 10:06

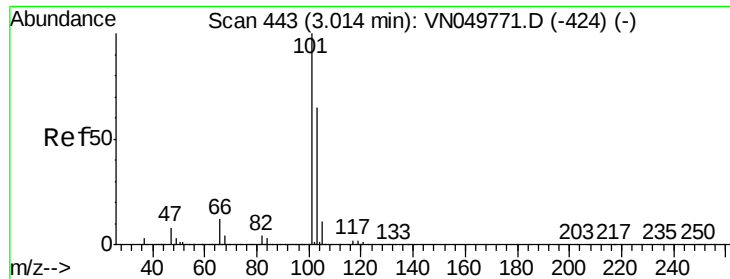
Tgt Ion: 64 Resp: 542487

Ion Ratio Lower Upper

64 100

66 33.4 25.6 38.4





#7

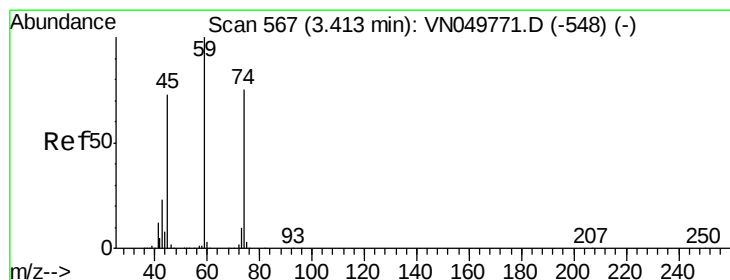
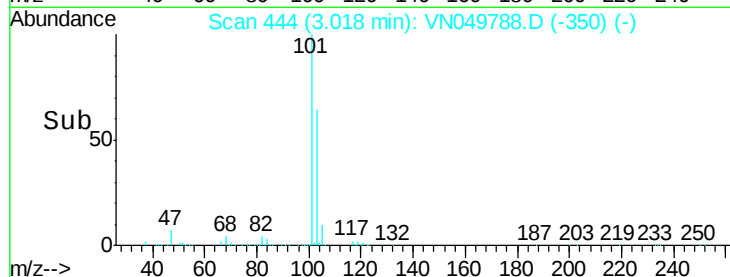
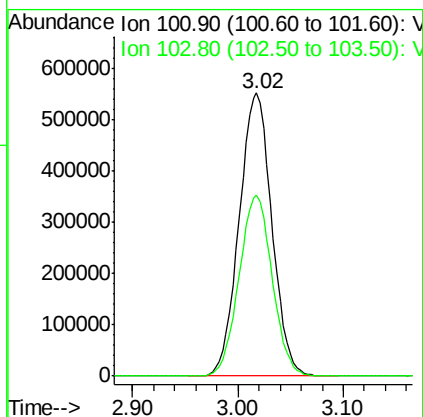
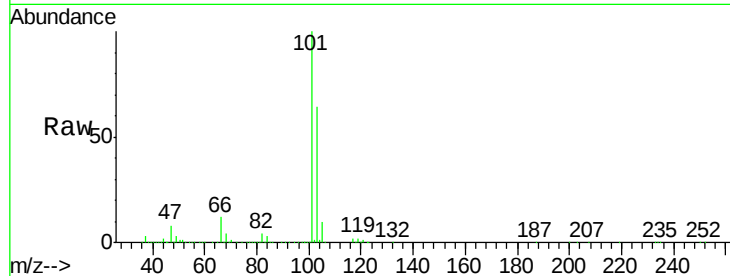
Trichlorofluoromethane
Concen: 46.20 ug/l
RT: 3.02 min Scan# 444
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:101 Resp: 1190001
Ion Ratio Lower Upper
101 100
103 63.9 52.8 79.2

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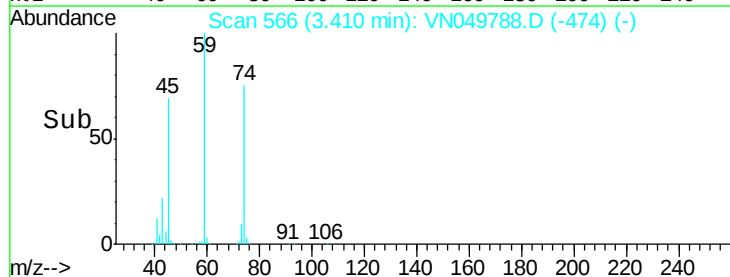
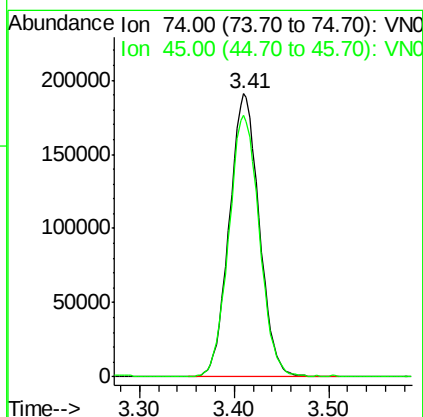
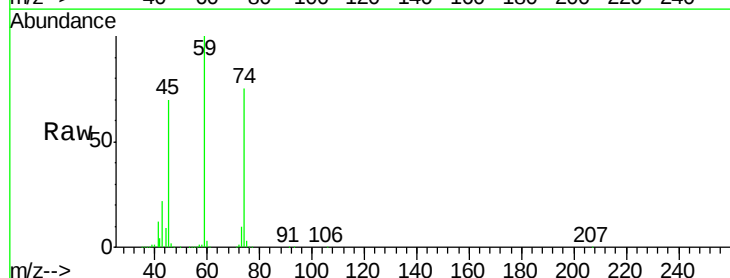
MMDadoda
7/16/2018 11:02:42 AM

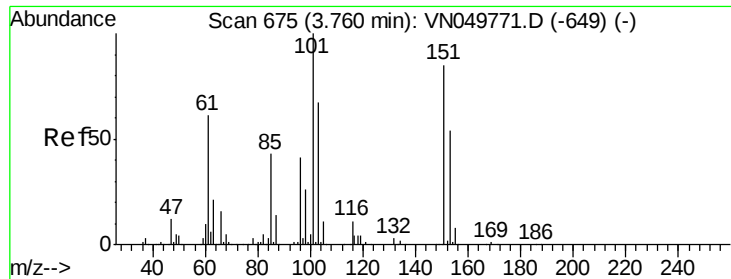


#8

Diethyl Ether
Concen: 45.37 ug/l
RT: 3.41 min Scan# 566
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion: 74 Resp: 418754
Ion Ratio Lower Upper
74 100
45 93.9 48.4 145.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.87 ug/l

RT: 3.75 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

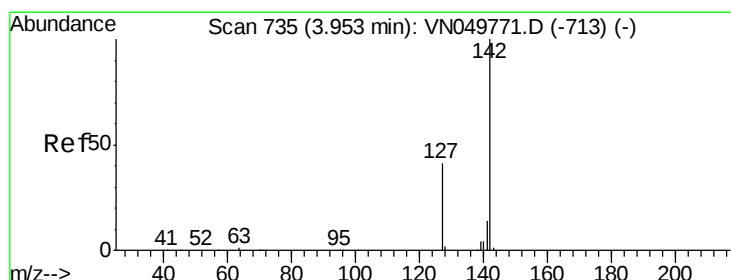
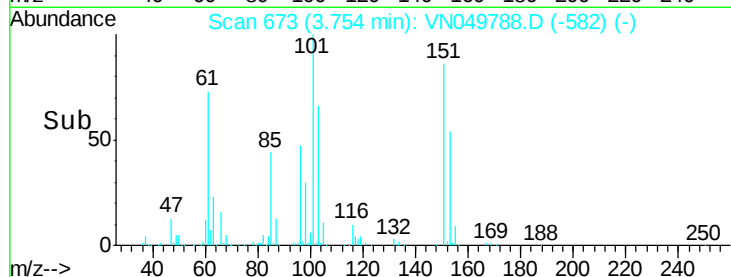
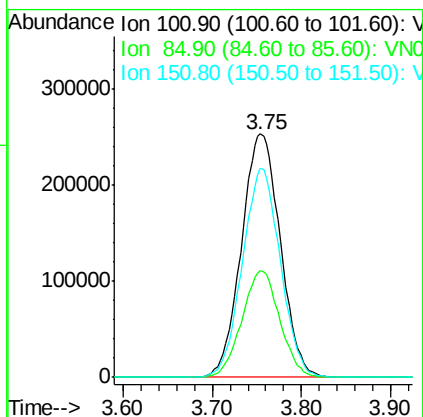
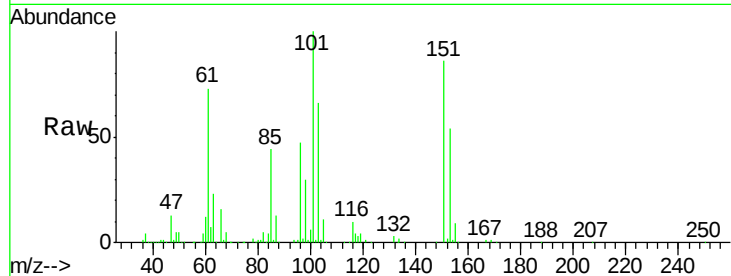
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	766930
Ion Ratio	Lower	Upper	
101	100		
85	42.7	34.4	51.6
151	84.0	66.2	99.4

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#10

Methyl Iodide

Concen: 48.06 ug/l

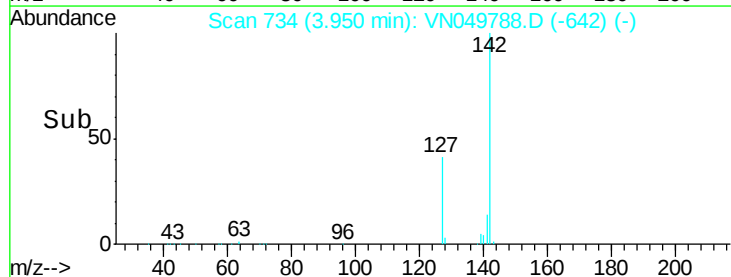
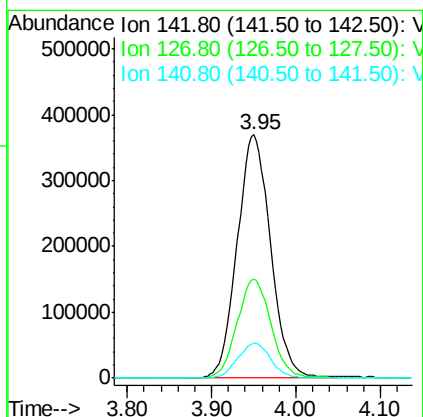
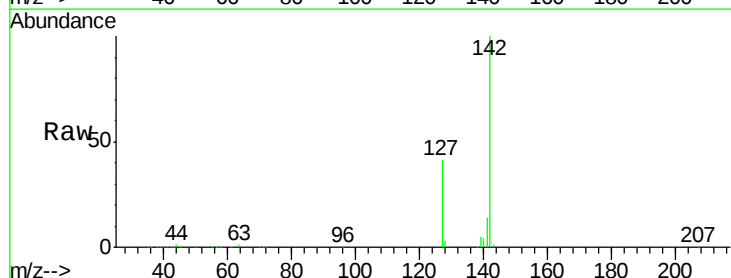
RT: 3.95 min Scan# 734

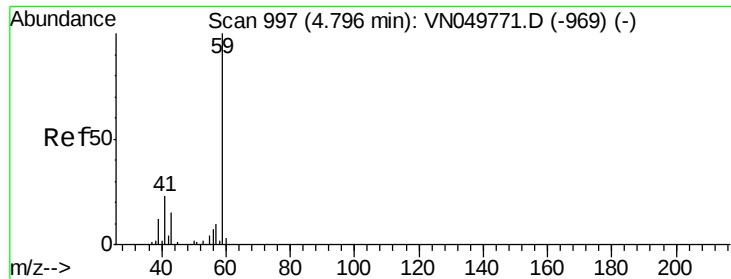
Delta R.T. -0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Tgt Ion:	142	Resp:	1021215
Ion Ratio	Lower	Upper	
142	100		
127	41.1	32.5	48.7
141	14.3	11.1	16.7





#11

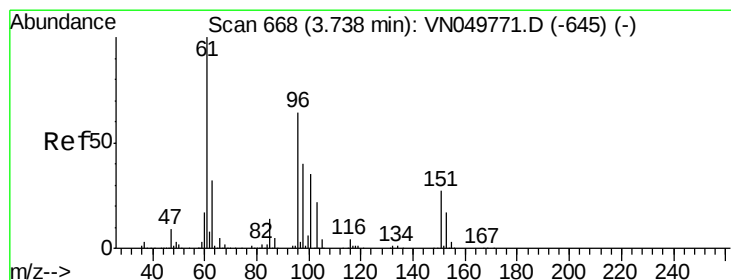
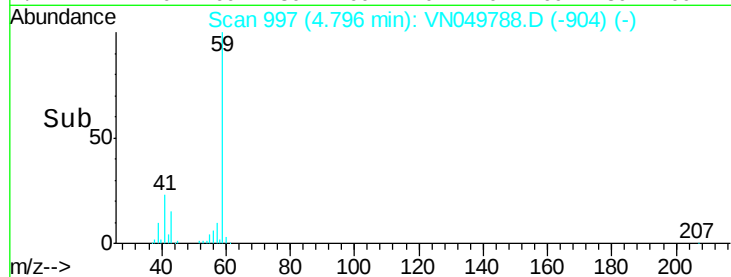
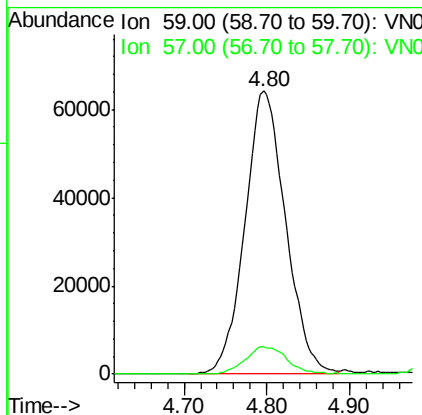
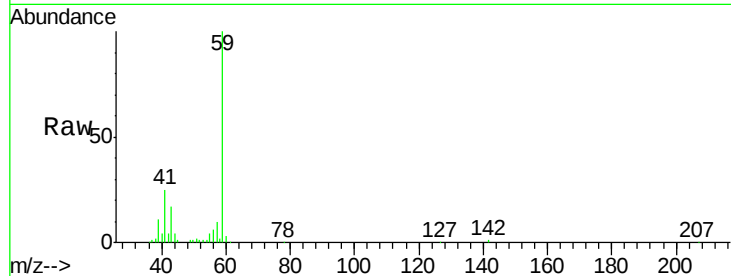
Tert butyl alcohol
Concen: 207.44 ug/l
RT: 4.80 min Scan# 997
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.5	12.7

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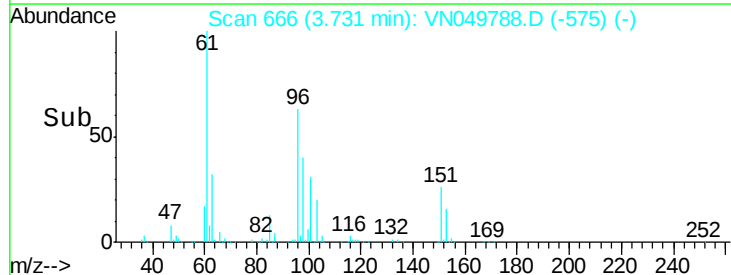
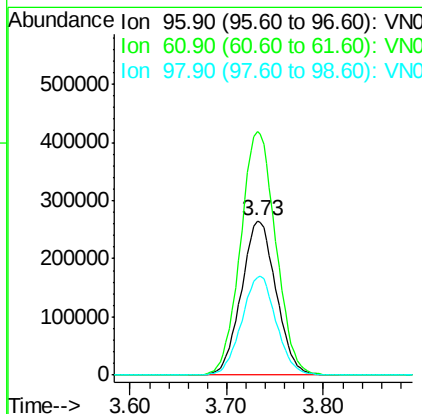
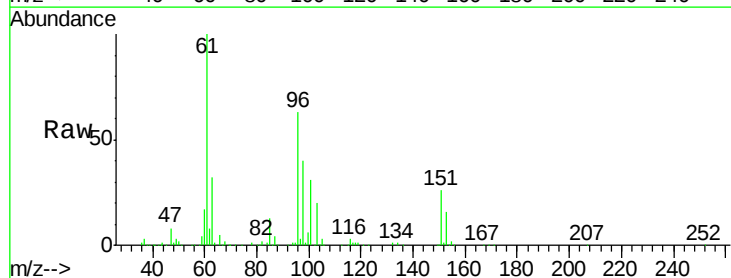
MMDadoda
7/16/2018 11:02:42 AM

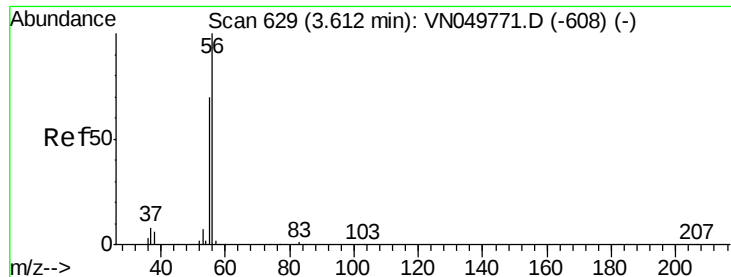


#12

1,1-Dichloroethene
Concen: 45.04 ug/l
RT: 3.73 min Scan# 666
Delta R.T. -0.01 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.0	126.5	189.7
98	63.5	51.0	76.6





#13

Acrolein

Concen: 199.92 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.01 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 185726

Ion Ratio Lower Upper

56 100

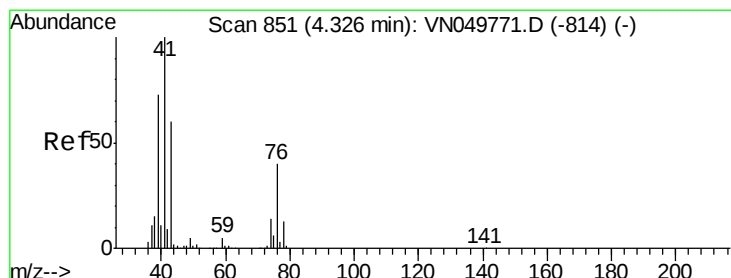
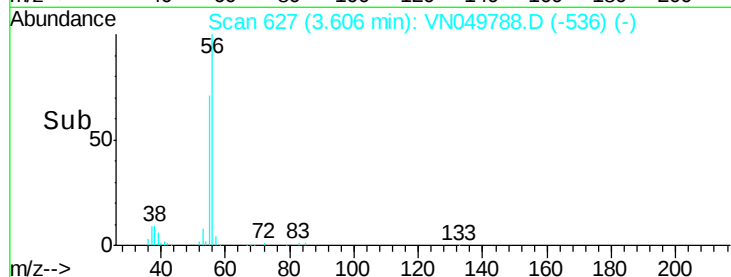
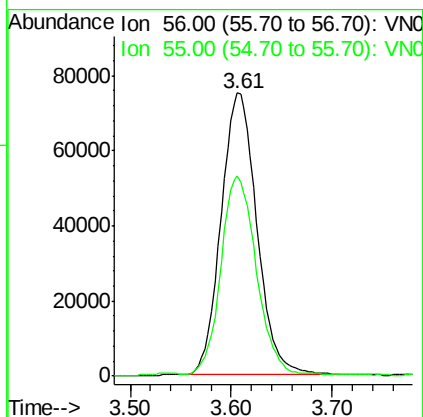
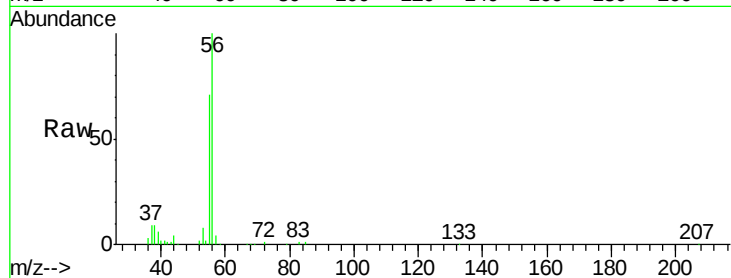
55 69.3 55.8 83.8

Manual Integrations

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#14

Allyl chloride

Concen: 46.16 ug/l

RT: 4.32 min Scan# 850

Delta R.T. -0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

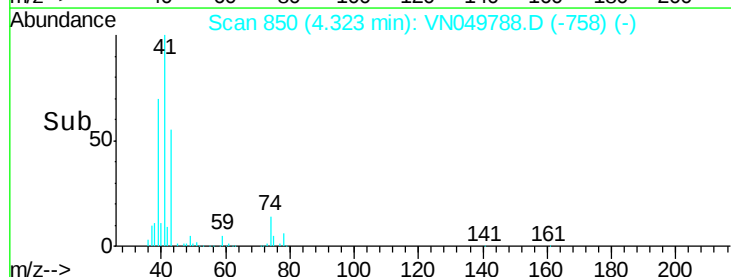
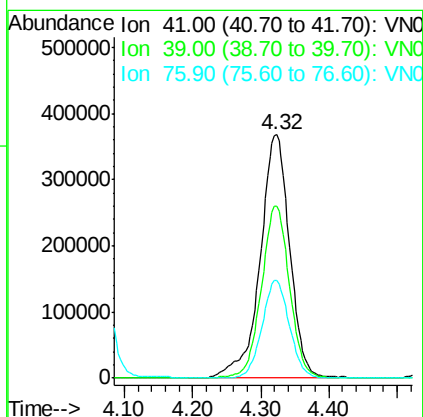
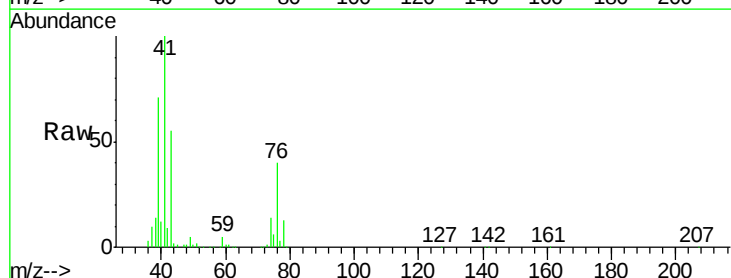
Tgt Ion: 41 Resp: 1106713

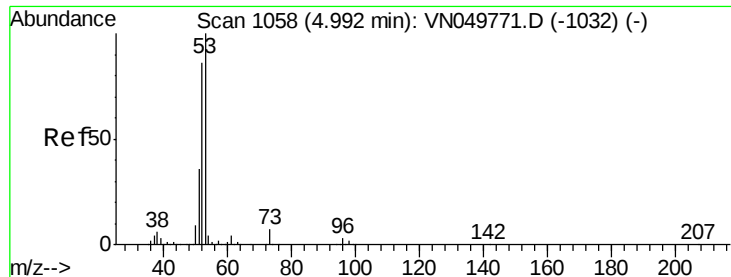
Ion Ratio Lower Upper

41 100

39 67.3 53.2 79.8

76 36.7 29.0 43.6





#15

Acrylonitrile

Concen: 219.40 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 1162126

Ion Ratio Lower Upper

53 100

52 82.1 64.8 97.2

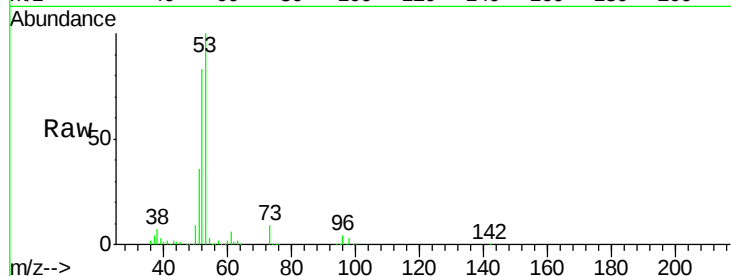
51 36.7 28.9 43.3

Manual Integrations

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MMDadoda

7/16/2018 11:02:42 AM



Abundance Ion 53.00 (52.70 to 53.70): VN049771.D (-1032) (-)

Ion 52.00 (51.70 to 52.70): VN049771.D (-1032) (-)

Ion 51.00 (50.70 to 51.70): VN049771.D (-1032) (-)

4.99

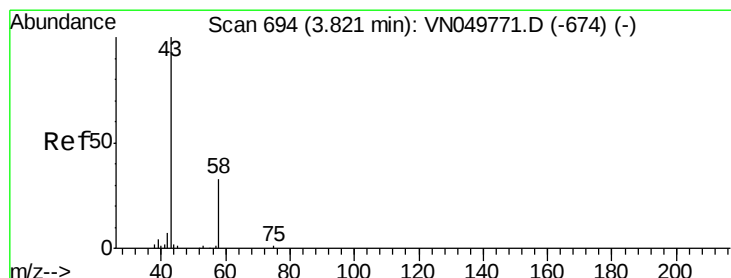
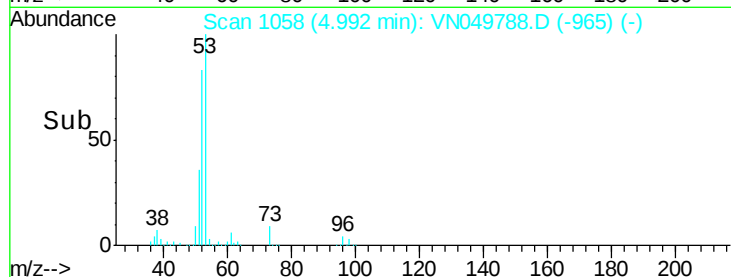
300000

200000

100000

0

Time--> 4.80 4.90 5.00 5.10 5.20



#16

Acetone

Concen: 243.22 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049788.D

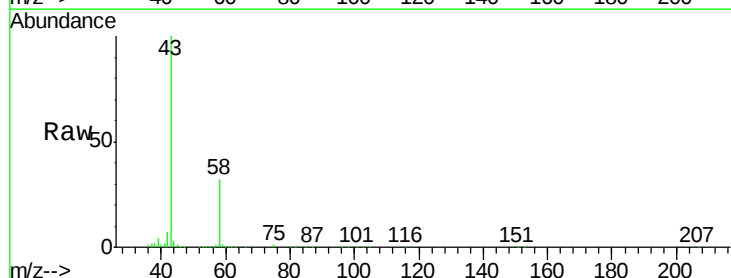
Acq: 13 Jul 2018 10:06

Tgt Ion: 43 Resp: 946176

Ion Ratio Lower Upper

43 100

58 31.8 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-674) (-)

Ion 58.00 (57.70 to 58.70): VN049771.D (-674) (-)

3.82

400000

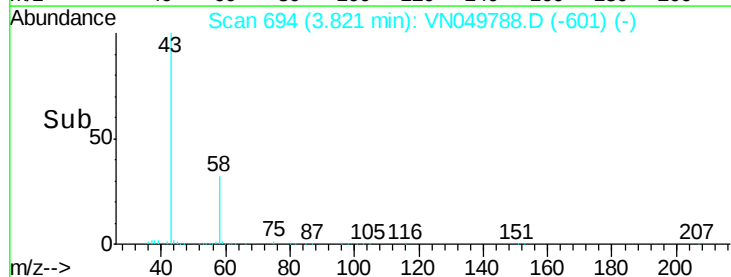
300000

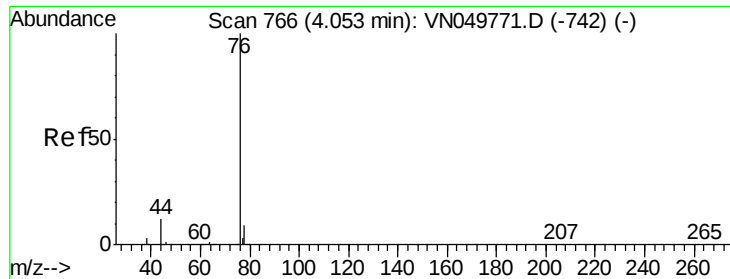
200000

100000

0

Time--> 3.70 3.80 3.90 4.00





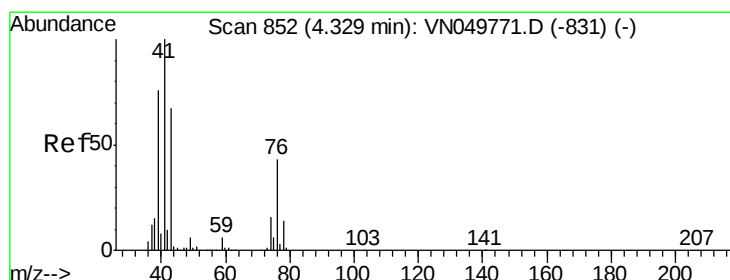
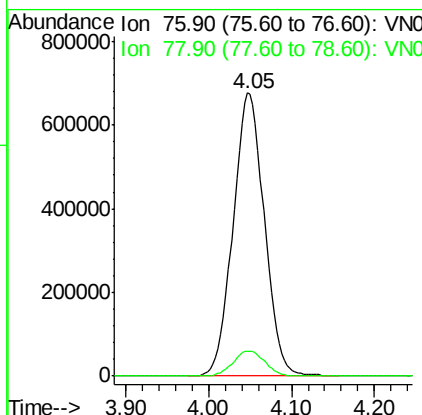
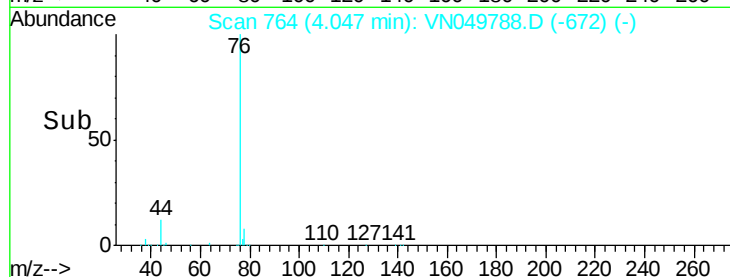
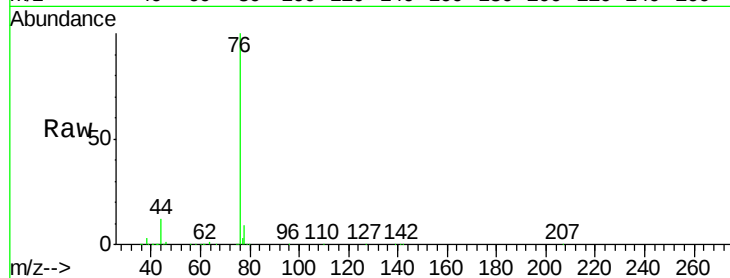
#17
Carbon Disulfide
Concen: 47.15 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.01 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1775277
Ion Ratio Lower Upper
76 100
78 8.9 7.1 10.7

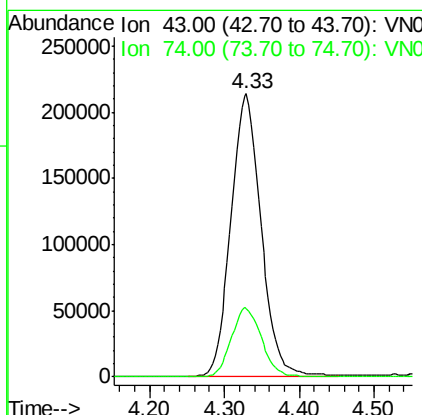
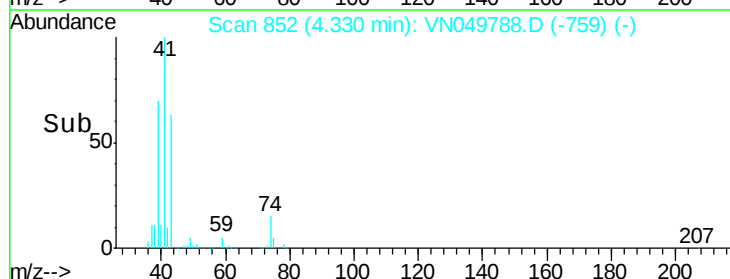
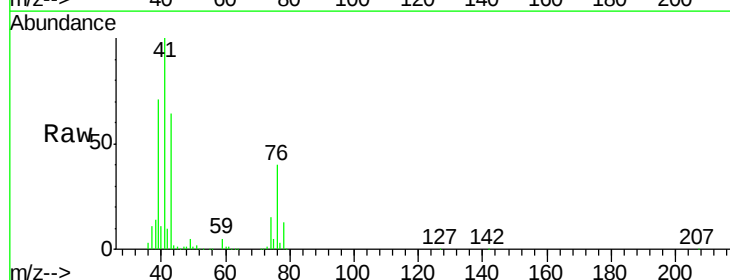
Manual Integrations
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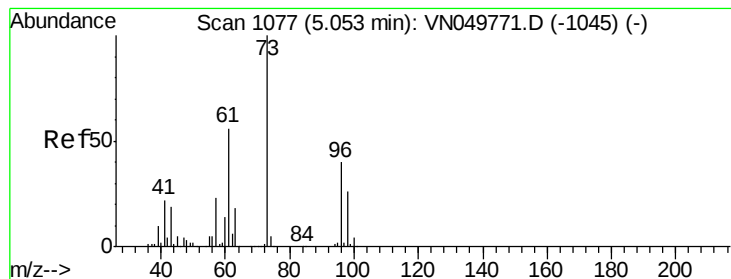
MMDadoda
7/16/2018 11:02:42 AM



#18
Methyl Acetate
Concen: 45.16 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion: 43 Resp: 597050
Ion Ratio Lower Upper
43 100
74 24.6 19.8 29.8





#19

Methyl tert-butyl Ether

Concen: 46.07 ug/l

RT: 5.05 min Scan# 1076

Delta R.T. -0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 73 Resp: 1877380

Ion Ratio Lower Upper

73 100

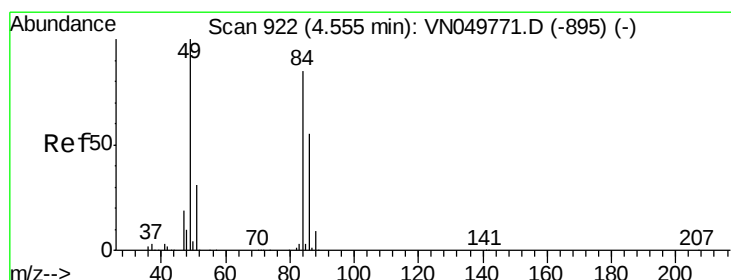
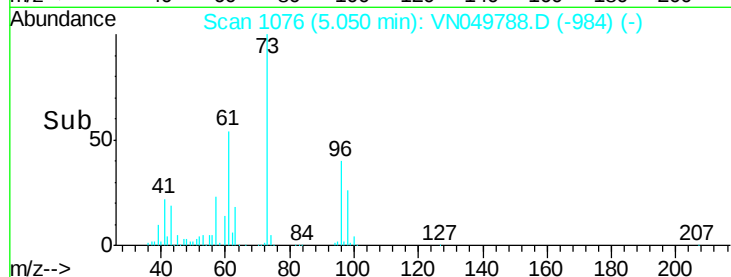
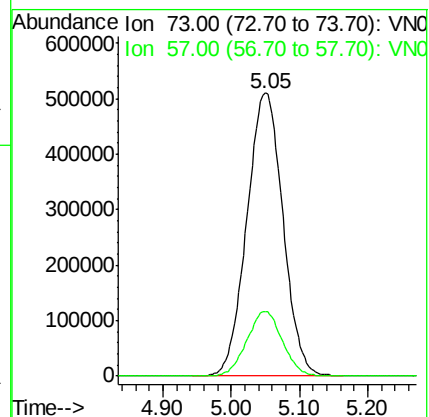
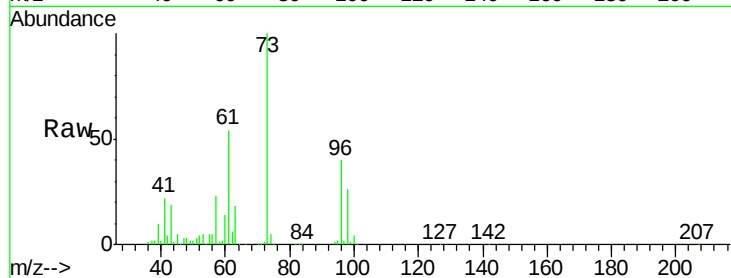
57 22.8 18.1 27.1

Manual Integrations

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7/16/2018 11:02:42 AM



#20

Methylene Chloride

Concen: 47.80 ug/l

RT: 4.55 min Scan# 920

Delta R.T. -0.01 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Tgt Ion: 84 Resp: 775584

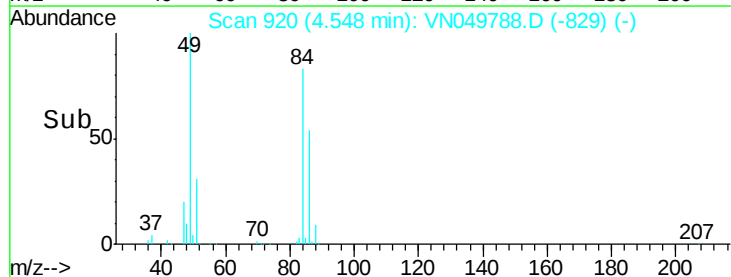
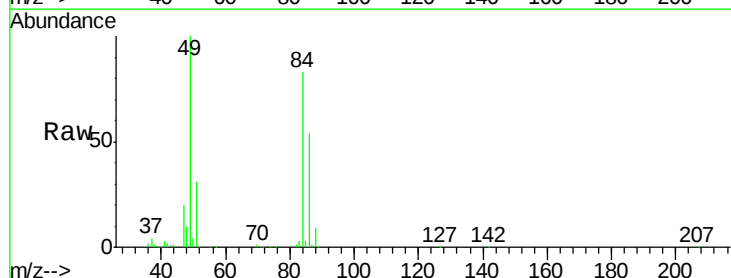
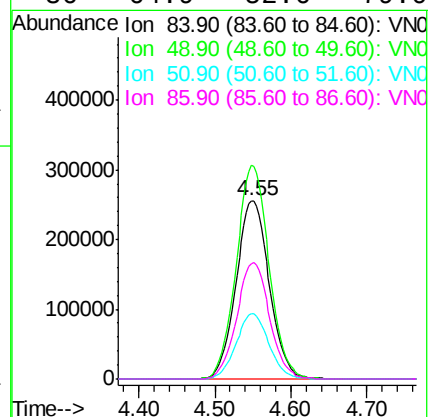
Ion Ratio Lower Upper

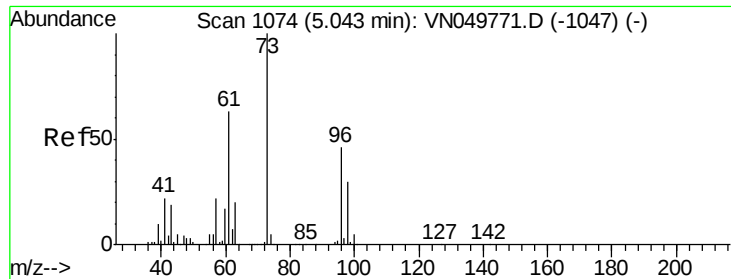
84 100

49 119.8 95.4 143.2

51 36.8 28.4 42.6

86 64.9 52.6 79.0





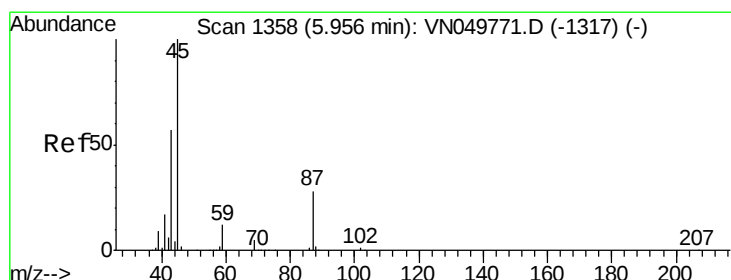
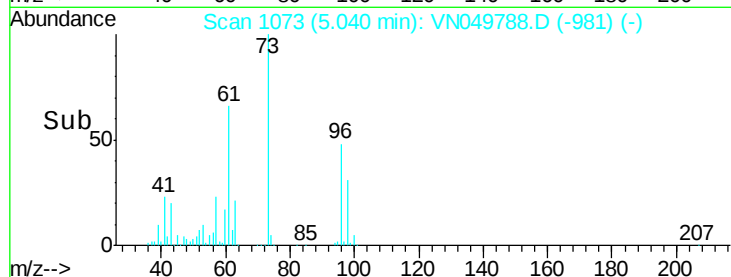
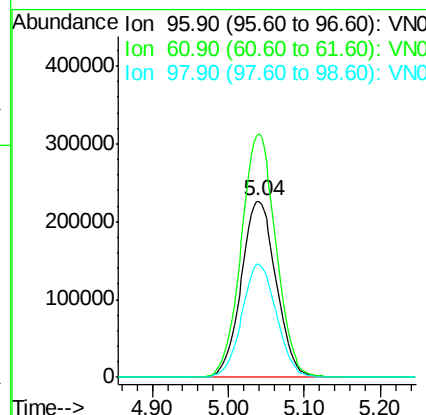
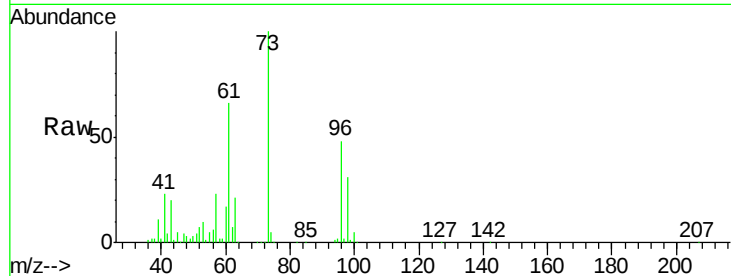
#21
trans-1,2-Dichloroethene
Concen: 44.93 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.5	109.0	163.6
98	64.1	51.1	76.7

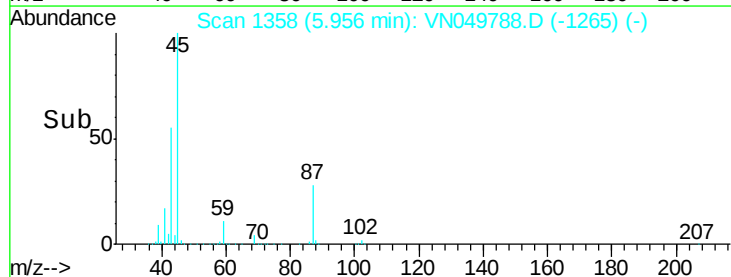
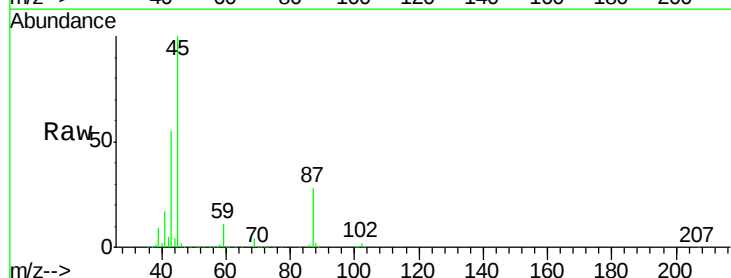
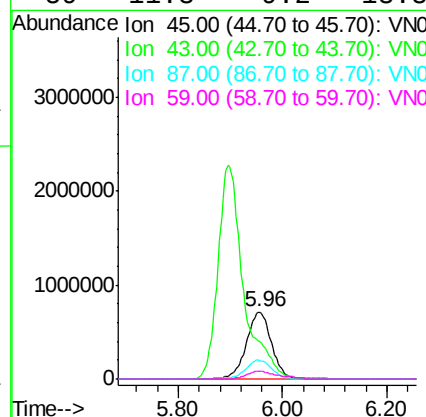
Manual Integrations
APPROVED

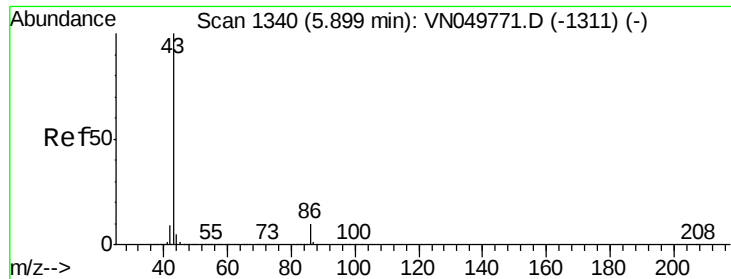
MMDadoda
7/16/2018 11:02:42 AM



#22
Diisopropyl ether
Concen: 48.51 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.1	48.1	72.1
87	27.7	22.6	34.0
59	11.3	9.2	13.8





#23

Vinyl Acetate

Concen: 235.14 ug/l

RT: 5.90 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleID :

VSTDCCC050

Tot Ion: 43 Resp: 7760136

Ion Ratio Lower Upper

43 100

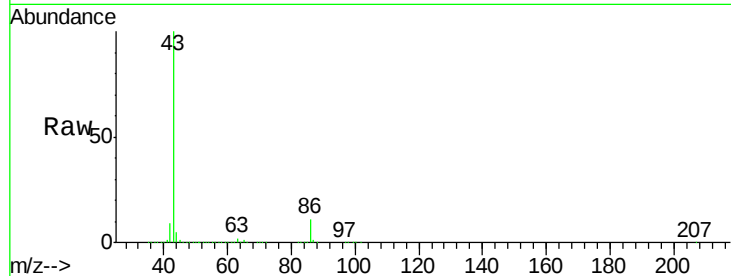
86 10.6 8.4 12.6

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-1311) (-)

Ion 86.00 (85.70 to 86.70): VN049771.D (-1311) (-)

2500000

2000000

1500000

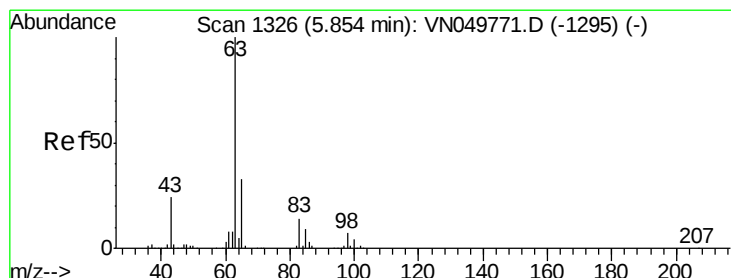
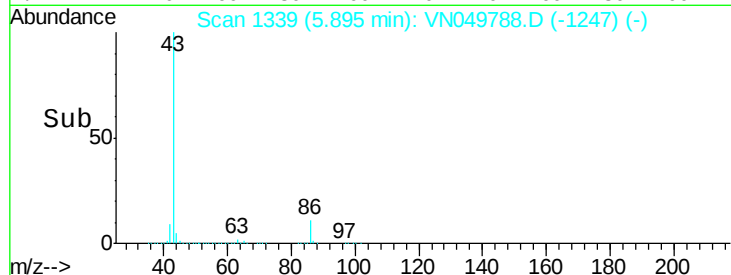
1000000

500000

0

5.80 5.90 6.00

Time-->



#24

1,1-Dichloroethane

Concen: 45.63 ug/l

RT: 5.85 min Scan# 1324

Delta R.T. -0.01 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

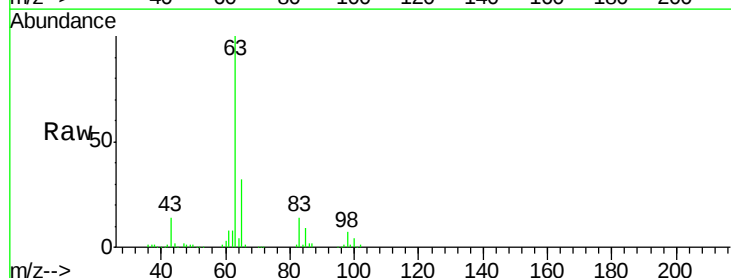
Tgt Ion: 63 Resp: 1411629

Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.2

100 3.8 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN049771.D (-1295) (-)

Ion 97.90 (97.60 to 98.60): VN049771.D (-1295) (-)

Ion 99.90 (99.60 to 100.60): VN049771.D (-1295) (-)

600000

500000

400000

300000

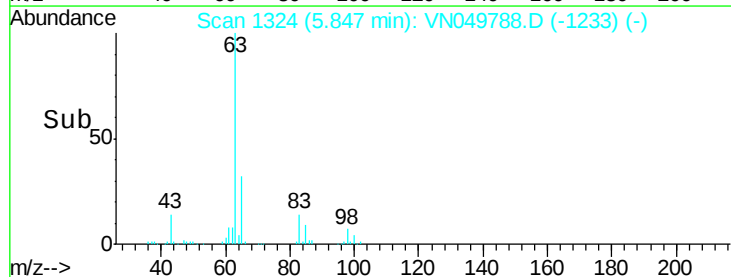
200000

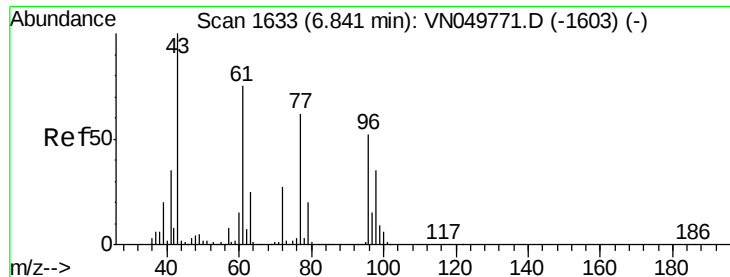
100000

0

5.70 5.80 5.90 6.00

Time-->





#25

2-Butanone

Concen: 225.13 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1386389

Ion Ratio Lower Upper

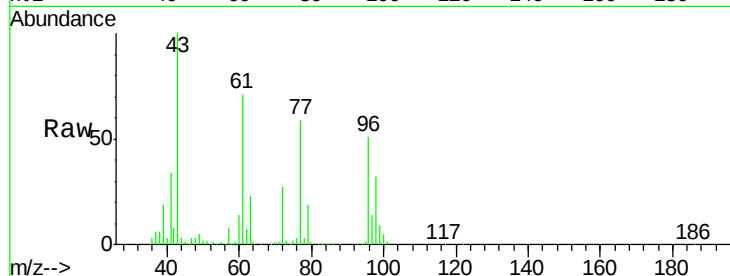
43 100

72 27.3 22.1 33.1

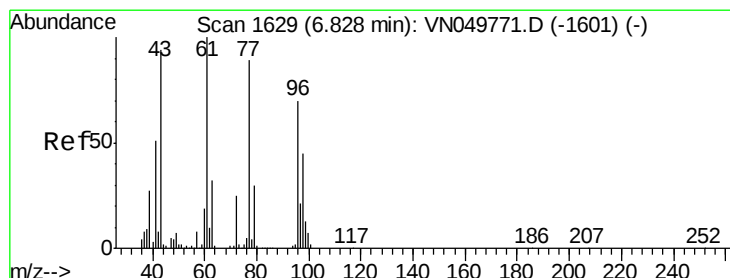
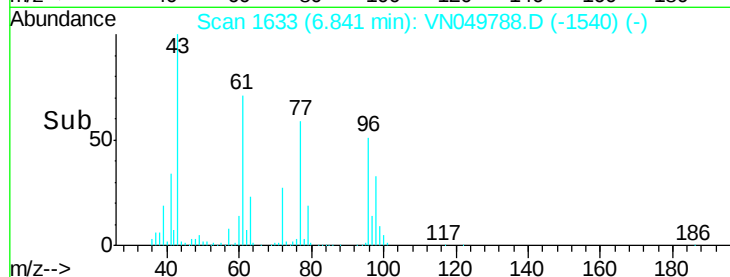
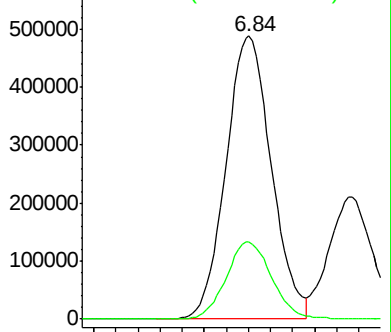
Manual Integrations
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MMDadoda

7/16/2018 11:02:42 AM



Abundance Ion 43.00 (42.70 to 43.70): VN049771.D (-1603) (-)



#26

2,2-Dichloropropane

Concen: 47.59 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN049788.D

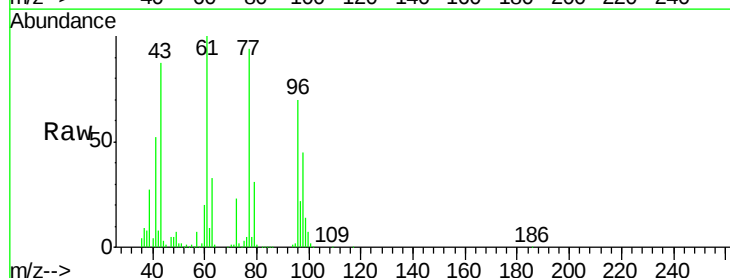
Acq: 13 Jul 2018 10:06

Tgt Ion: 77 Resp: 1222010

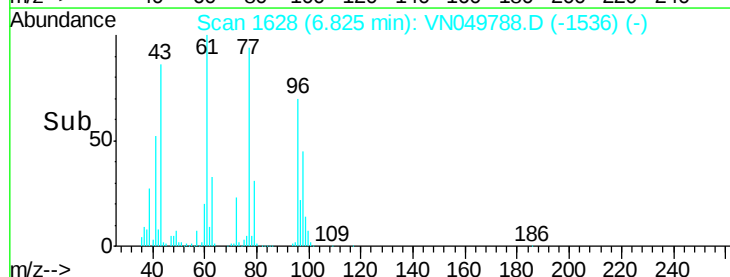
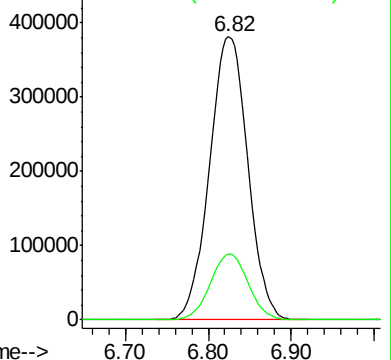
Ion Ratio Lower Upper

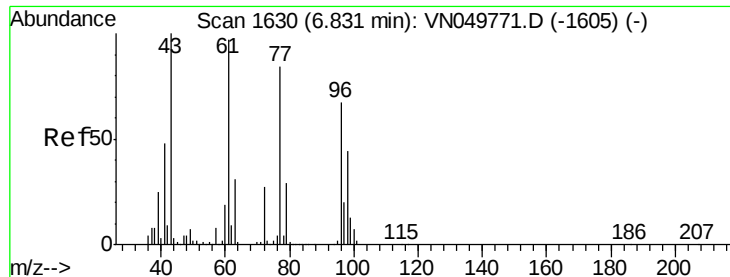
77 100

97 23.2 11.9 35.5



Abundance Ion 76.90 (76.60 to 77.60): VN049771.D (-1601) (-)





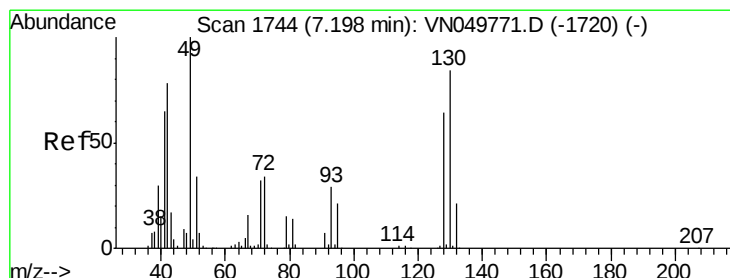
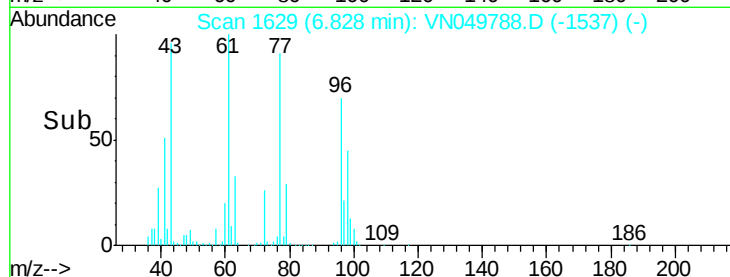
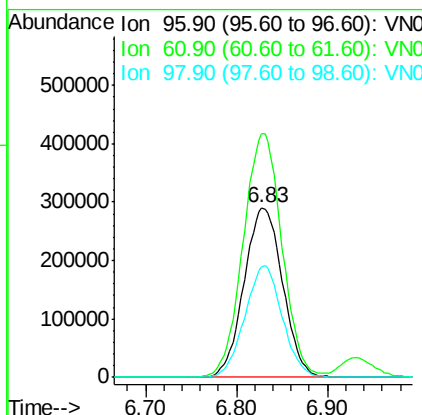
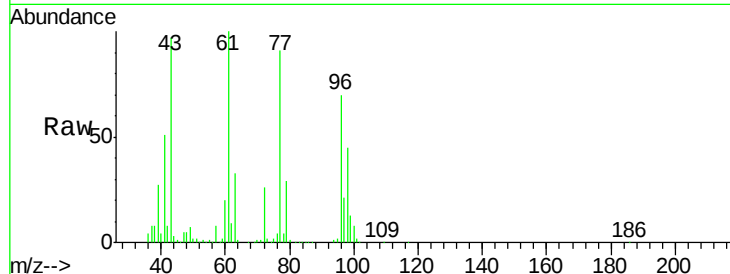
#27
 cis-1,2-Dichloroethene
 Concen: 46.63 ug/l
 RT: 6.83 min Scan# 1629
 Delta R.T. -0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	856333		
61	144.1	0.0	289.0	
98	63.9	0.0	130.2	

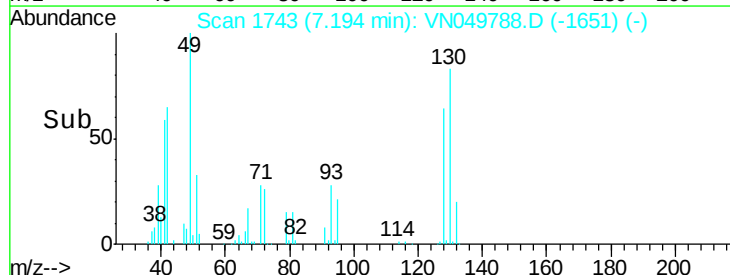
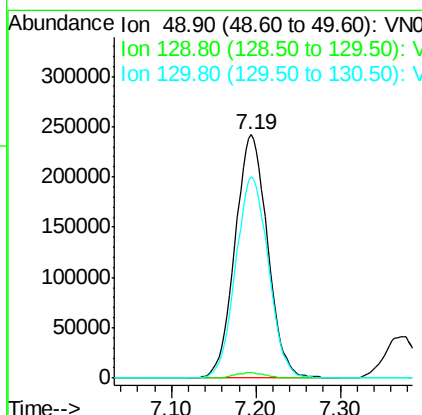
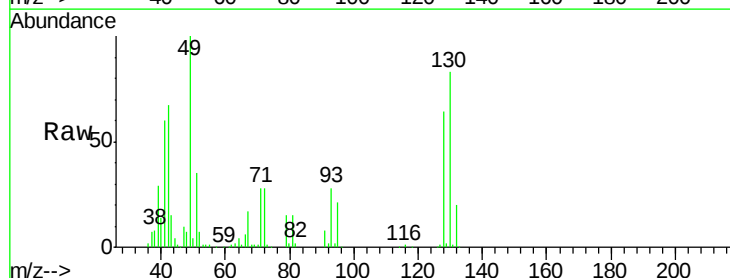
Manual Integrations
 APPROVED

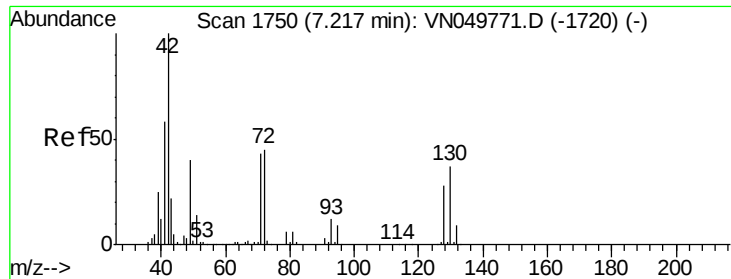
MMDadoda
 7/16/2018 11:02:42 AM



#28
 Bromochloromethane
 Concen: 46.29 ug/l
 RT: 7.19 min Scan# 1743
 Delta R.T. -0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	651417		
129	2.1	0.0	4.2	
130	83.2	65.5	98.3	





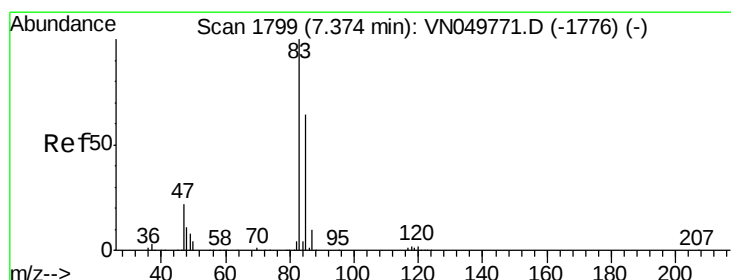
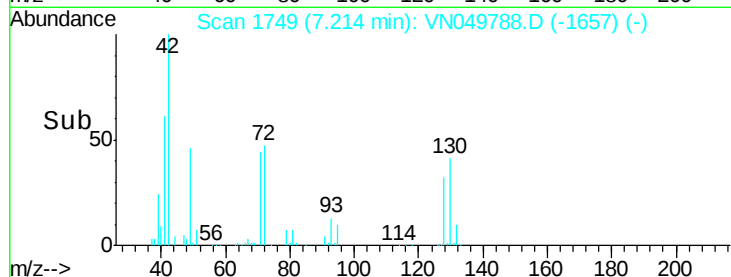
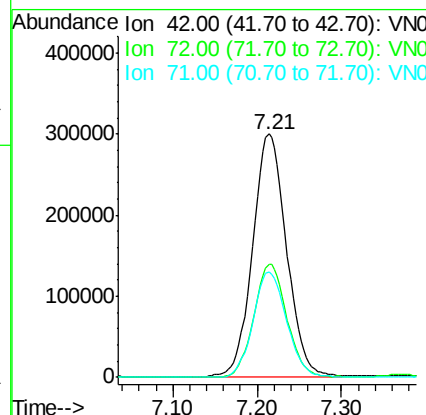
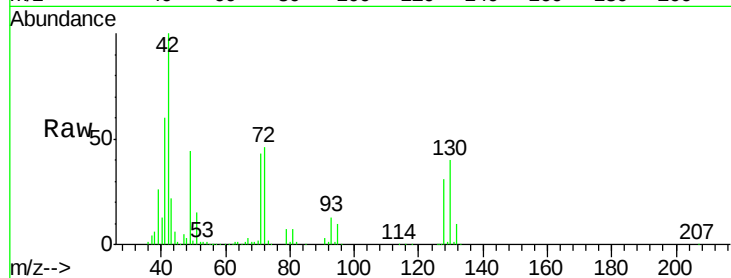
#29
Tetrahydrofuran
Concen: 216.35 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.2	35.6	53.4
71	43.0	34.0	51.0

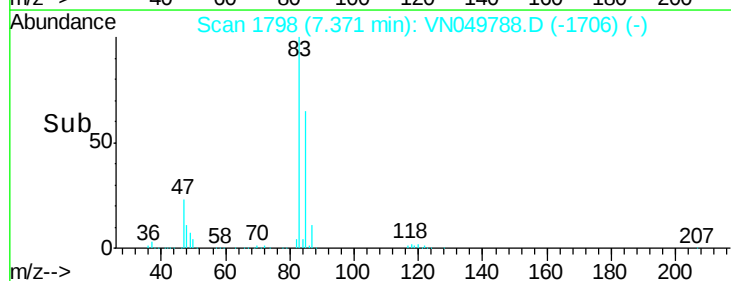
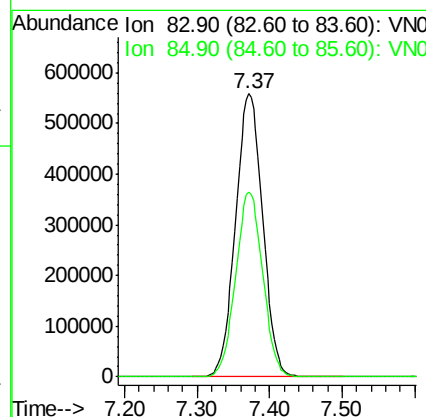
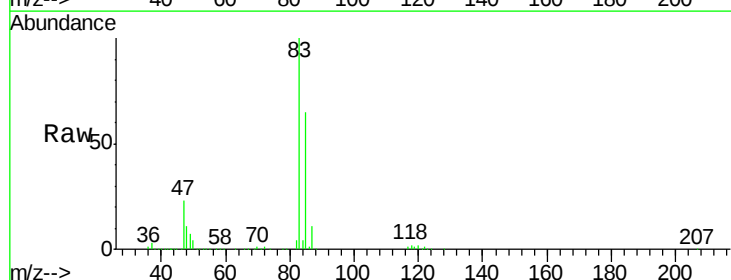
Manual Integrations
APPROVED

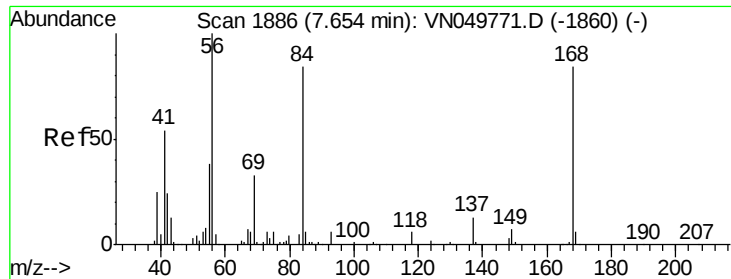
MMDadoda
7/16/2018 11:02:42 AM



#30
Chloroform
Concen: 45.76 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.4	77.2





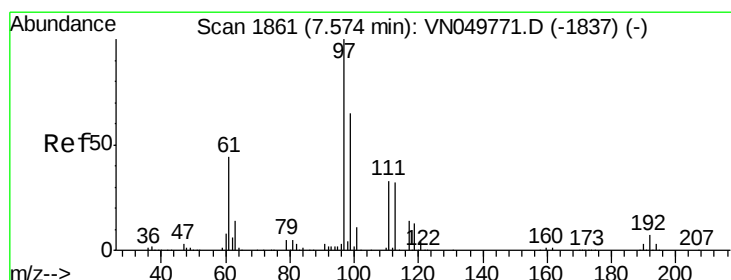
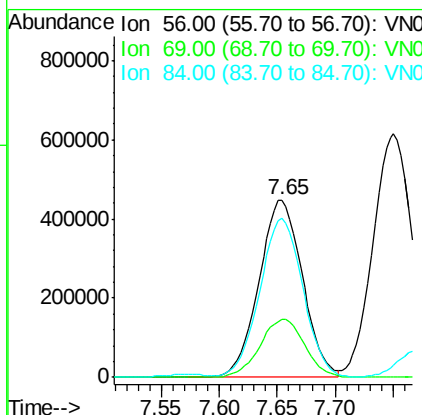
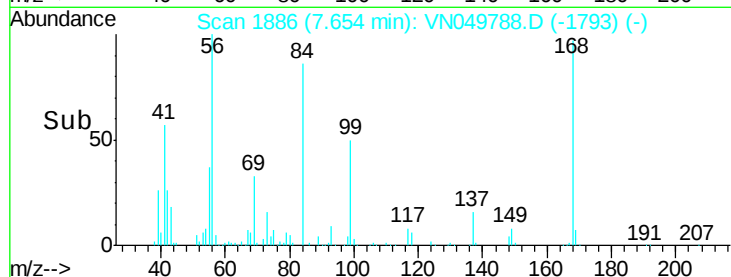
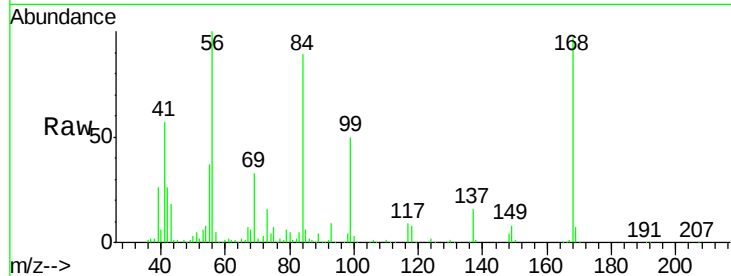
#31
Cyclohexane
Concen: 47.38 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 56 Resp: 1166879
Ion Ratio Lower Upper
56 100
69 32.7 26.6 40.0
84 87.7 69.0 103.6

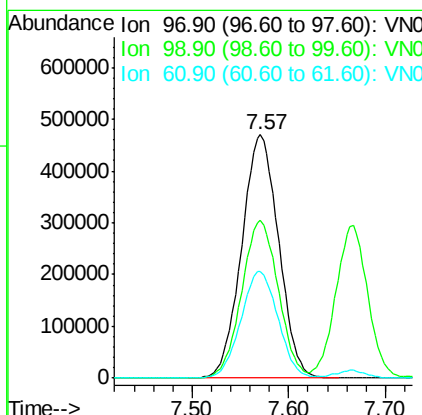
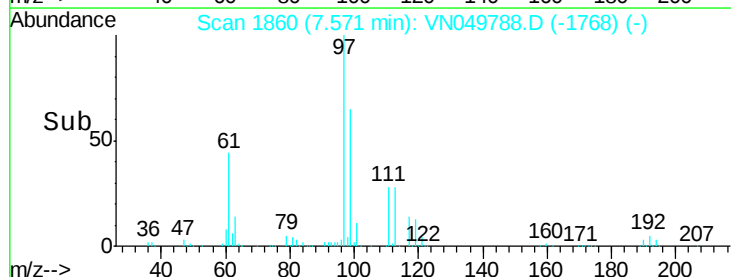
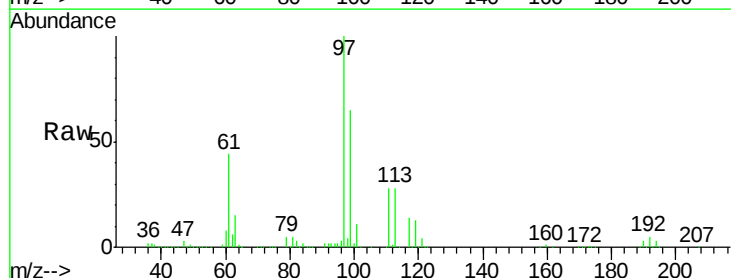
Manual Integrations
APPROVED

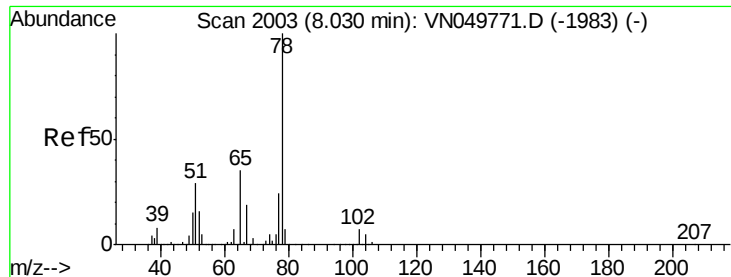
MMDadoda
7/16/2018 11:02:42 AM



#32
1,1,1-Trichloroethane
Concen: 46.00 ug/l
RT: 7.57 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion: 97 Resp: 1245482
Ion Ratio Lower Upper
97 100
99 64.4 51.0 76.4
61 44.2 35.5 53.3





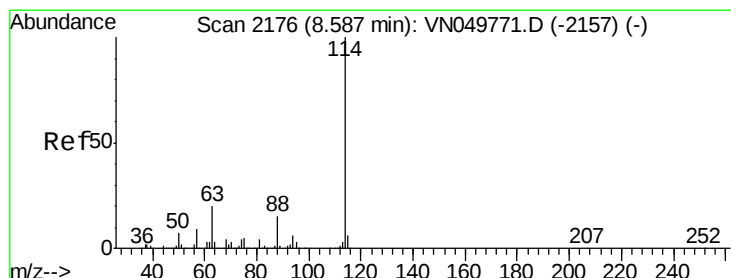
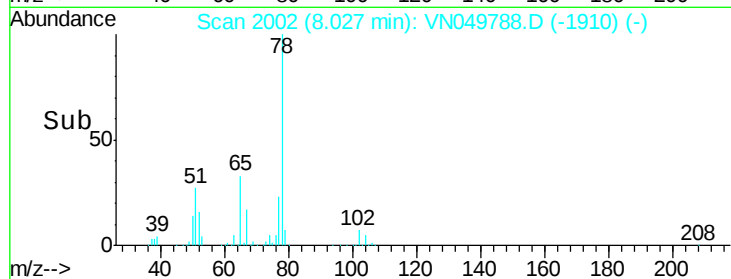
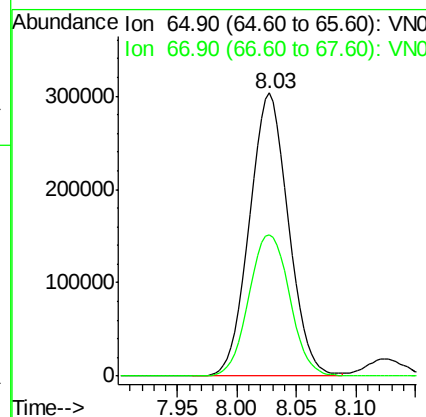
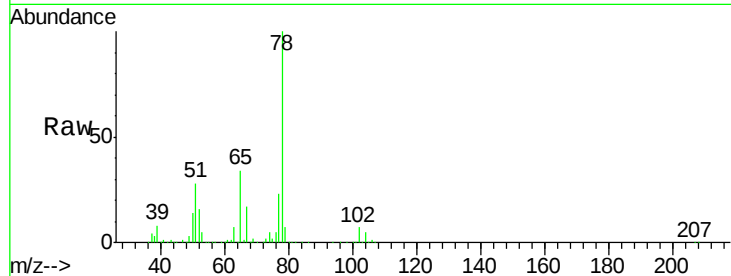
#33
 1,2-Dichloroethane-d4
 Concen: 43.59 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	688842		
67	52.6	0.0	107.2	

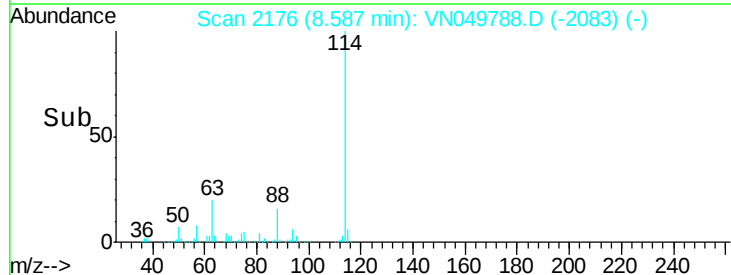
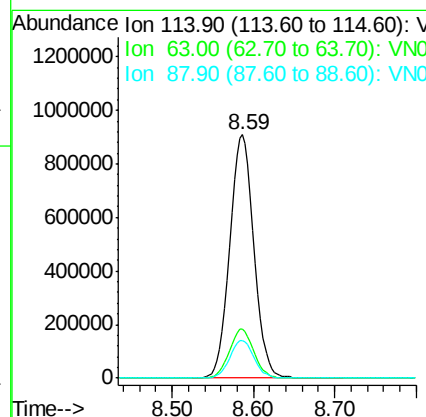
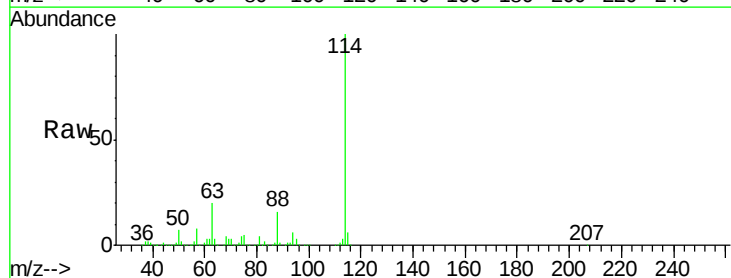
Manual Integrations
 APPROVED

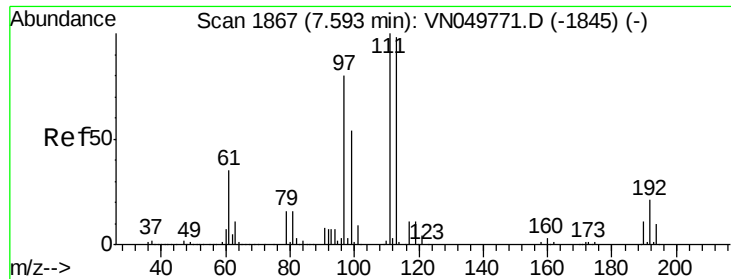
MMDadoda
 7/16/2018 11:02:42 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1898505		
63	20.1	0.0	39.8	
88	15.6	0.0	30.6	





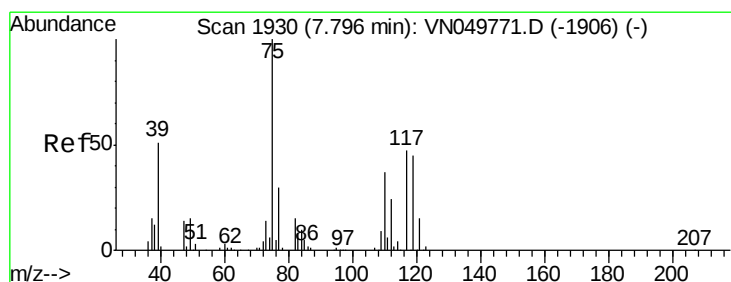
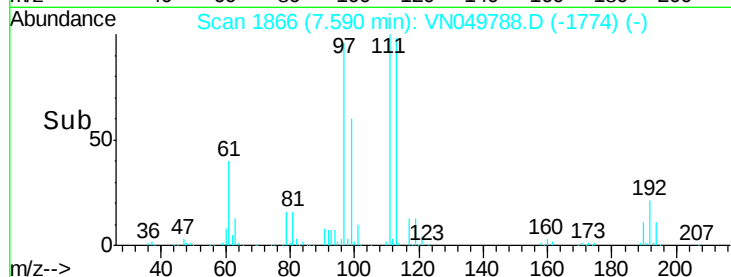
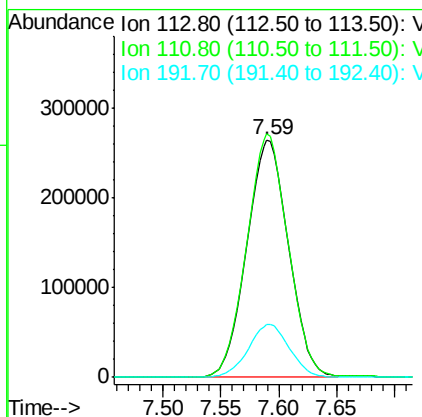
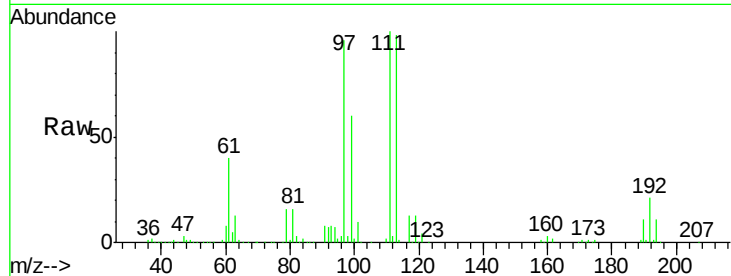
#35
Dibromofluoromethane
Concen: 46.30 ug/l
RT: 7.59 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.8
192	22.0	17.8	26.6

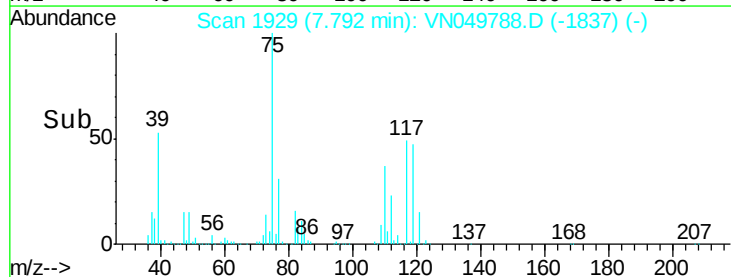
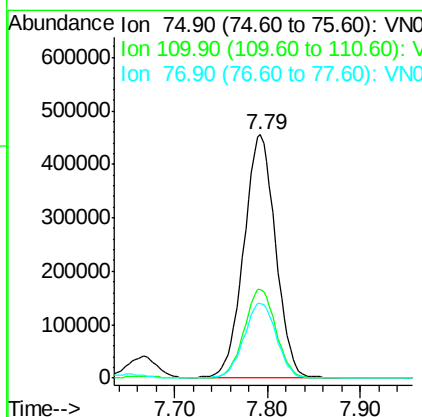
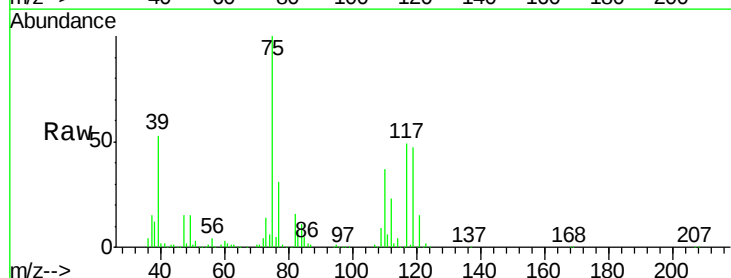
Manual Integrations
APPROVED

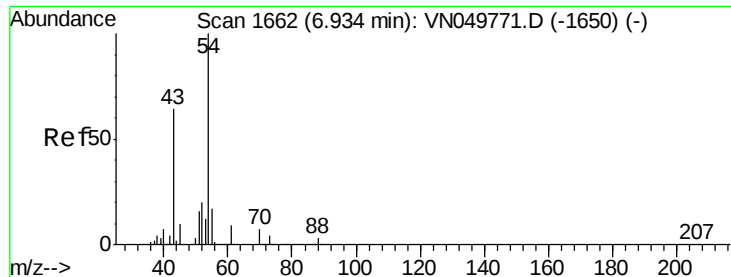
MMDadoda
7/16/2018 11:02:42 AM



#36
1,1-Dichloropropene
Concen: 49.25 ug/l
RT: 7.79 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.4	18.1	54.4
77	31.5	24.9	37.3





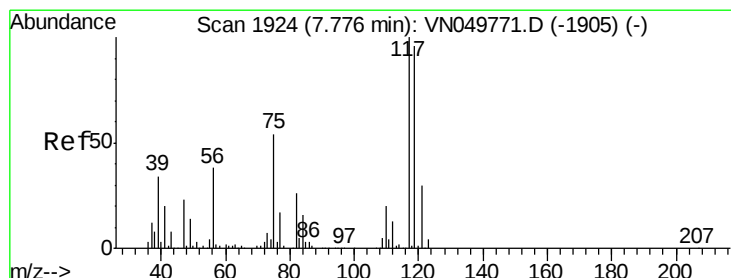
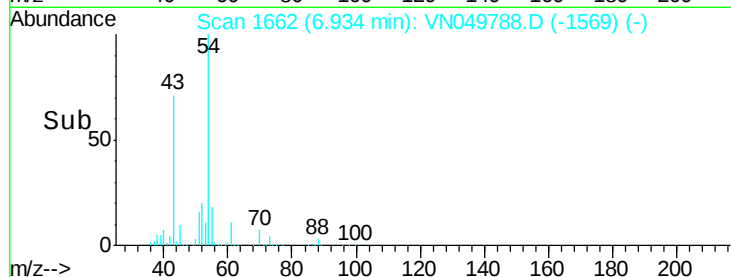
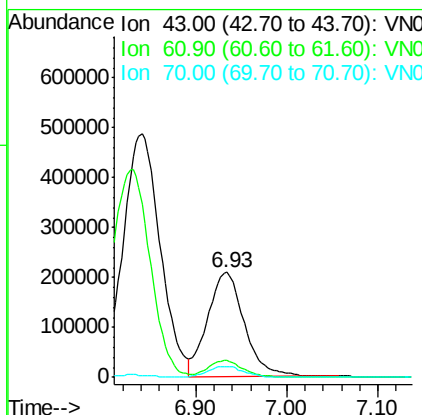
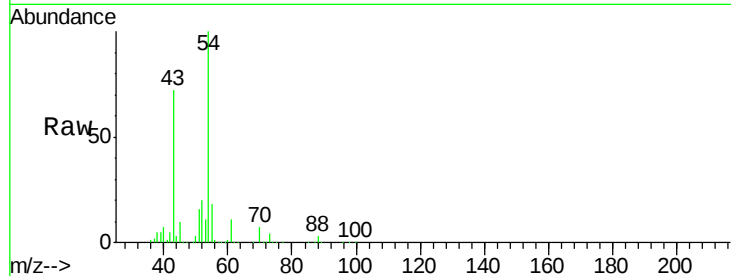
#37
Ethyl Acetate
Concen: 45.50 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	43	Resp	589165
Ion Ratio	100	Lower	Upper
43	100		
61	15.0	11.7	17.5
70	10.5	8.4	12.6

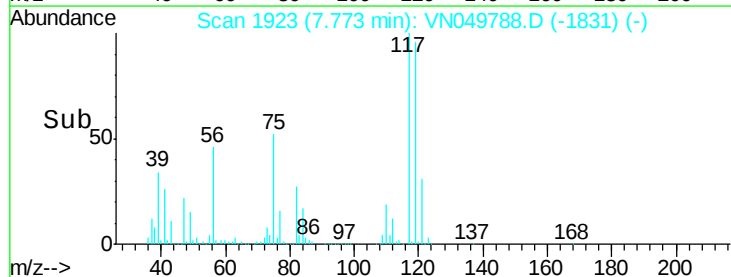
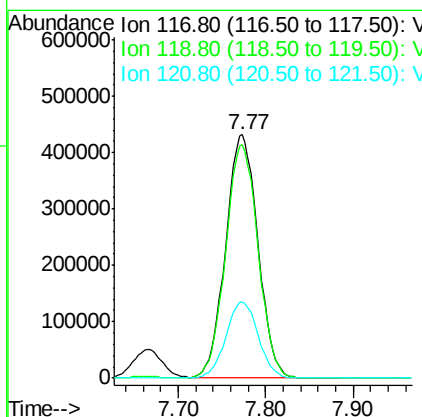
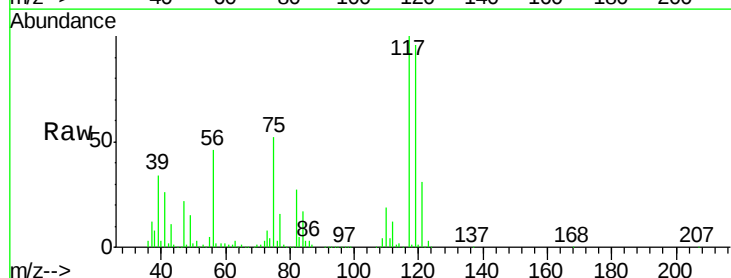
Manual Integrations
APPROVED

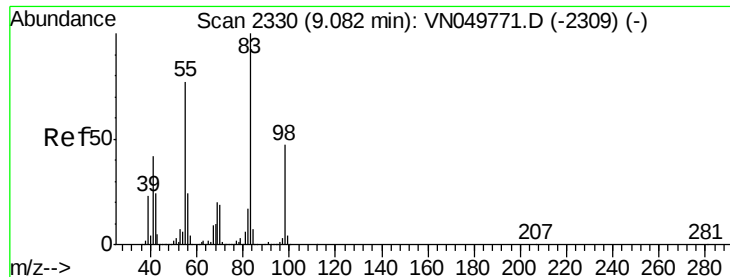
MMDadoda
7/16/2018 11:02:42 AM



#38
Carbon Tetrachloride
Concen: 48.27 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion	117	Resp	1103950
Ion Ratio	100	Lower	Upper
117	100		
119	96.0	77.2	115.8
121	31.3	25.0	37.6





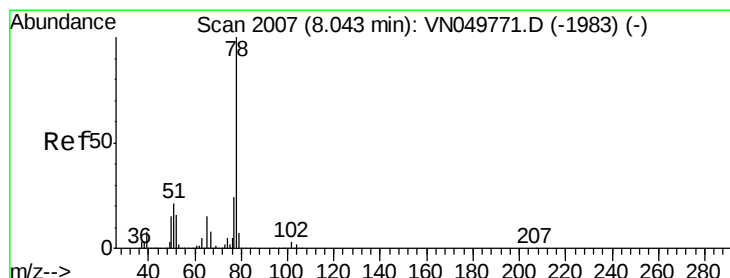
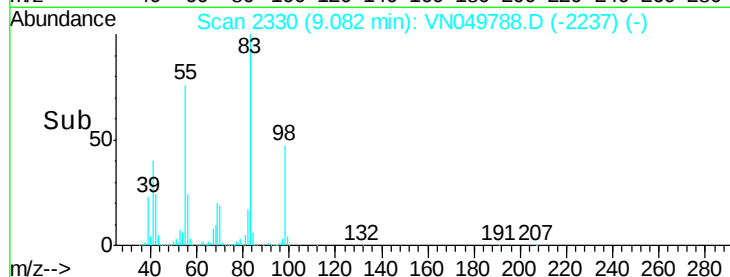
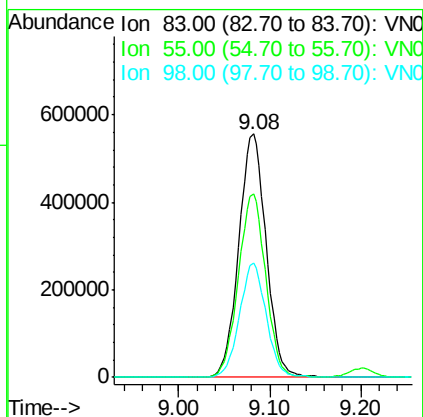
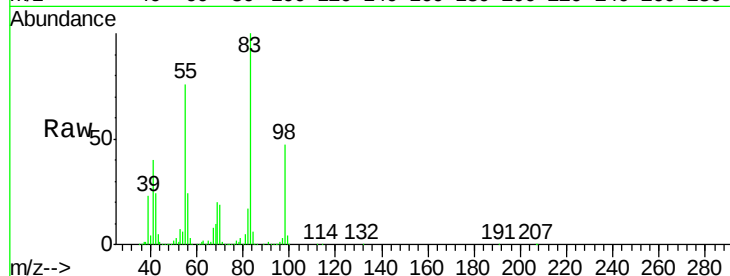
#39
Methylcyclohexane
Concen: 50.42 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.5	59.7	89.5
98	47.0	36.5	54.7

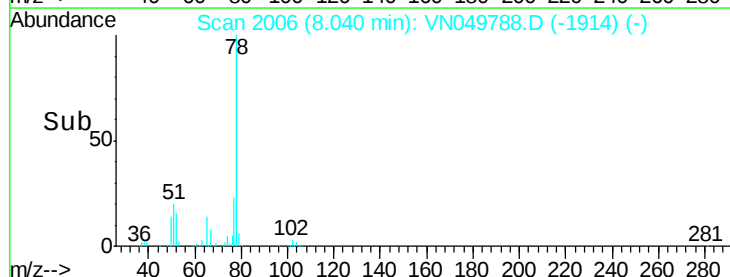
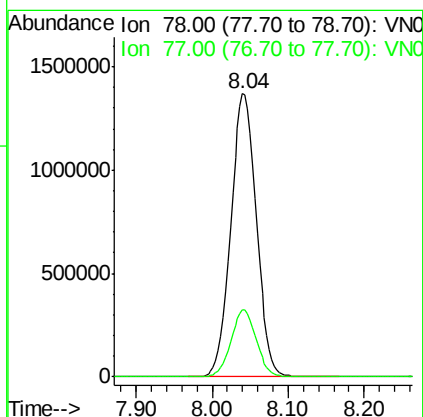
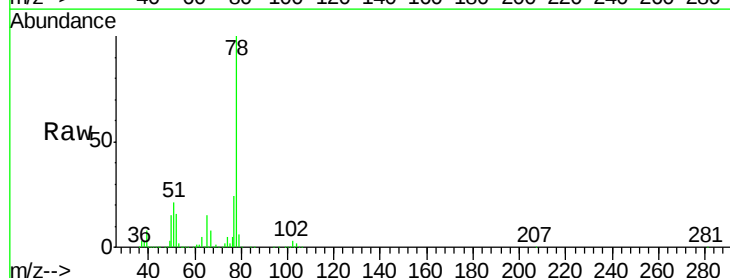
Manual Integrations
APPROVED

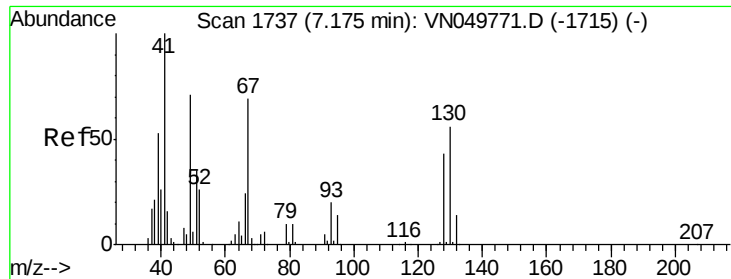
MMDadoda
7/16/2018 11:02:42 AM



#40
Benzene
Concen: 48.90 ug/l
RT: 8.04 min Scan# 2006
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4





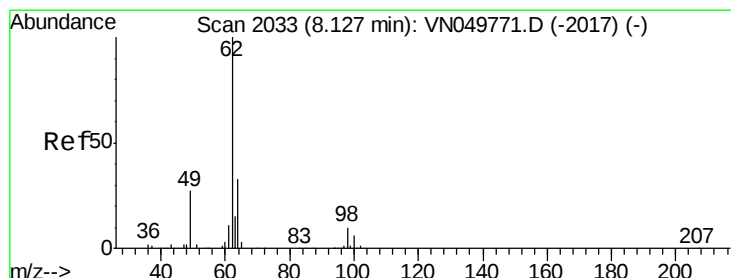
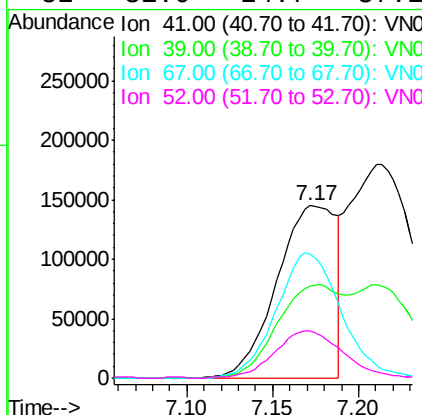
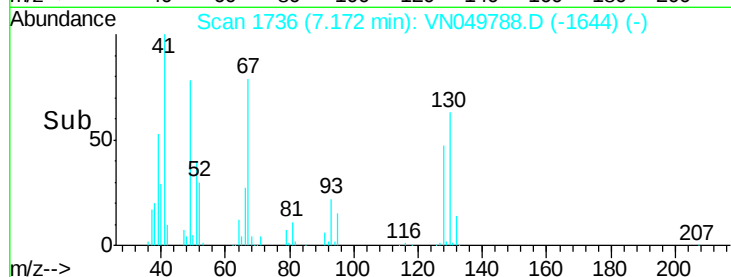
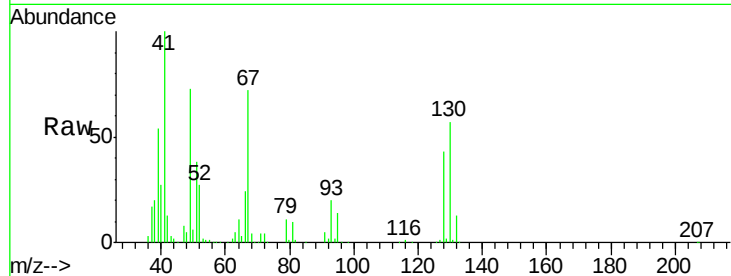
#41
Methacrylonitrile
Concen: 47.33 ug/l
RT: 7.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.2	45.4	68.2
67	80.8	65.4	98.0
52	31.0	24.7	37.1

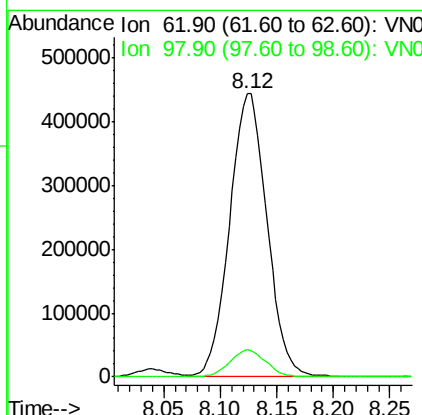
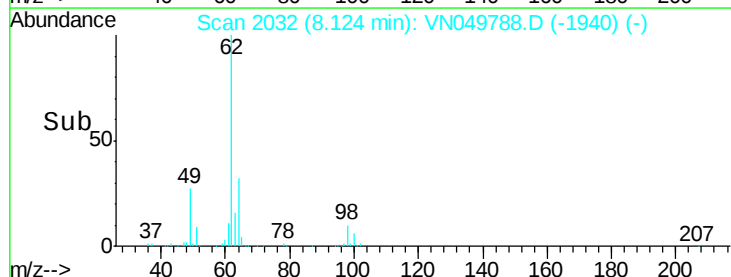
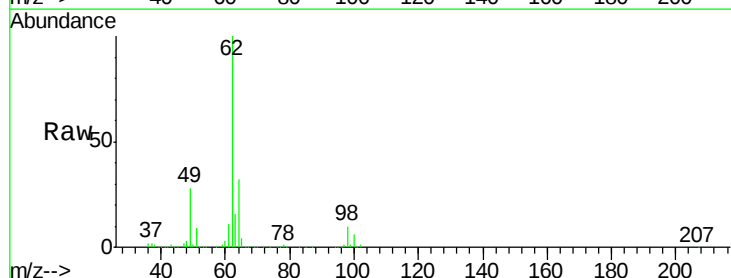
Manual Integrations
APPROVED

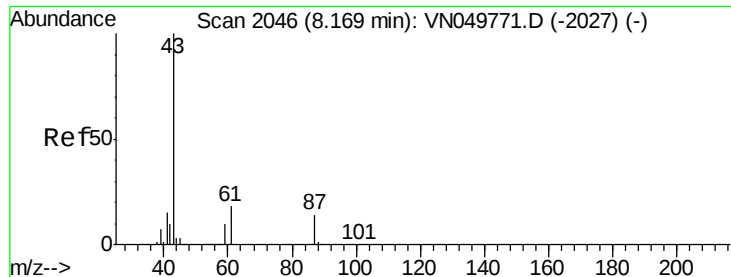
MMDadoda
7/16/2018 11:02:42 AM



#42
1,2-Dichloroethane
Concen: 47.45 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	19.0





#43

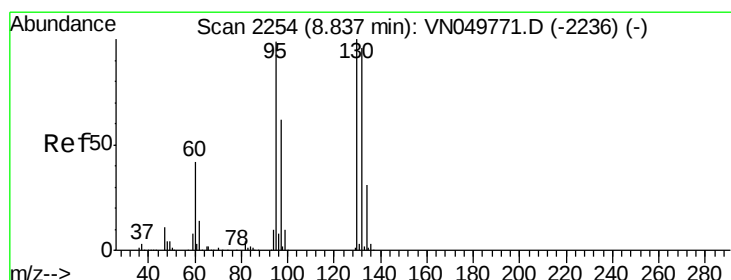
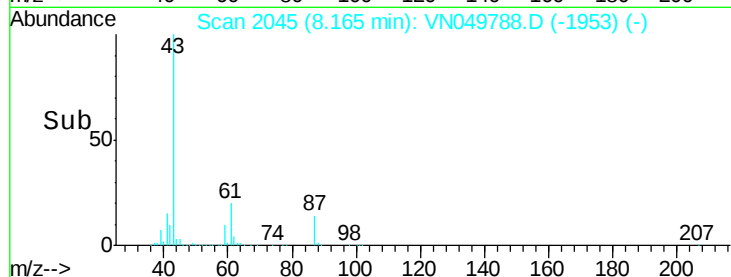
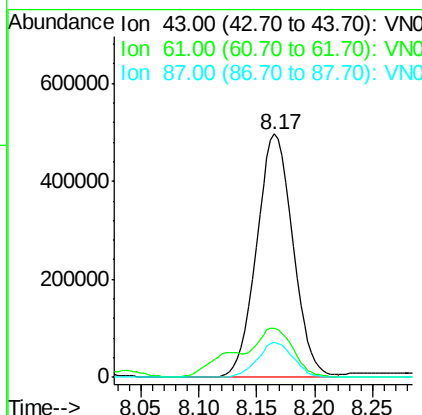
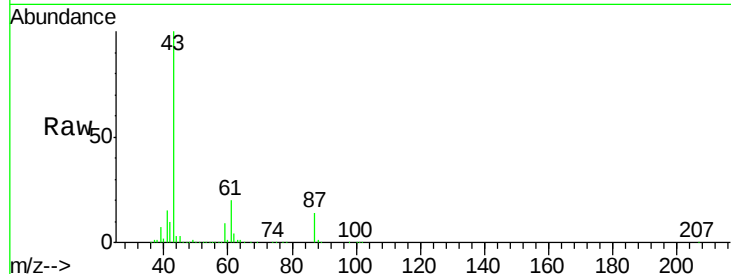
Isopropyl Acetate
 Concen: 46.46 ug/l
 RT: 8.17 min Scan# 2045
 Delta R.T. -0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	43	Resp	1081323
Ion	Ratio	Lower	Upper
43	100		
61	21.0	14.9	22.3
87	14.1	10.0	15.0

Manual Integrations
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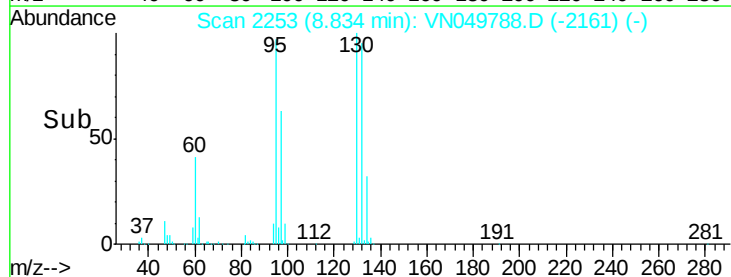
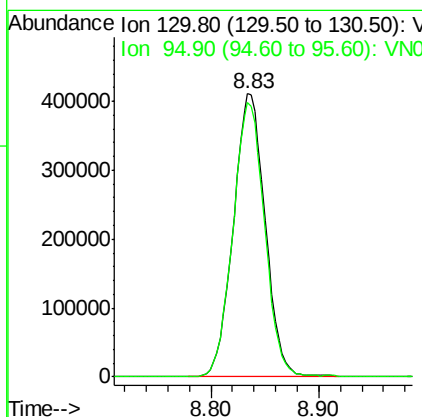
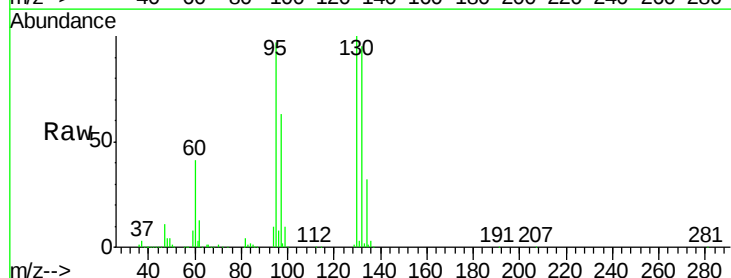
MMDadoda
 7/16/2018 11:02:42 AM

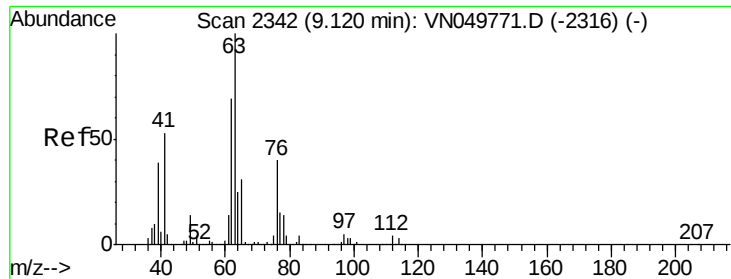


#44

Trichloroethene
 Concen: 47.87 ug/l
 RT: 8.83 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion	130	Resp	843668
Ion	Ratio	Lower	Upper
130	100		
95	96.8	0.0	192.8





#45

1,2-Dichloropropane

Concen: 48.37 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 850721

Ion Ratio Lower Upper

63 100

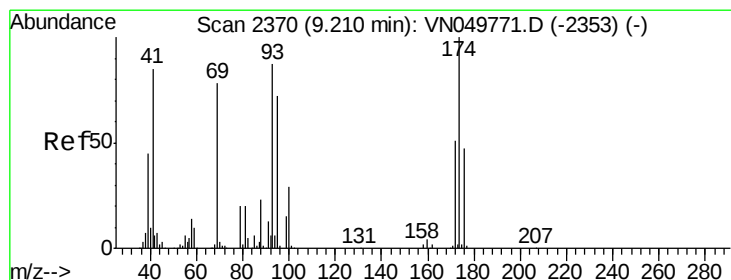
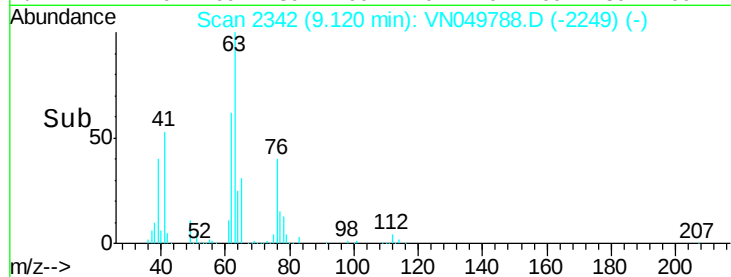
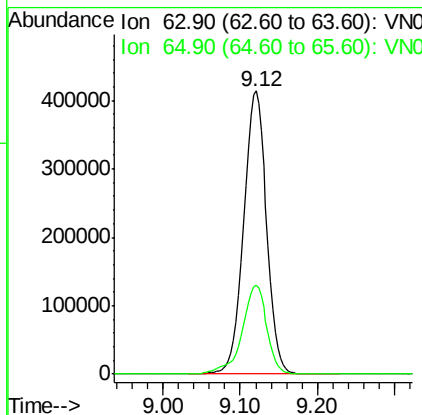
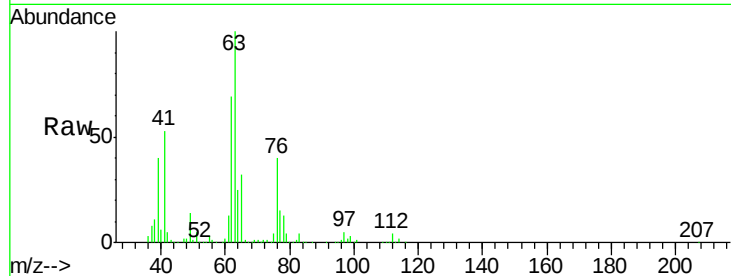
65 31.6 24.7 37.1

Manual Integrations

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#46

Dibromomethane

Concen: 47.18 ug/l

RT: 9.21 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

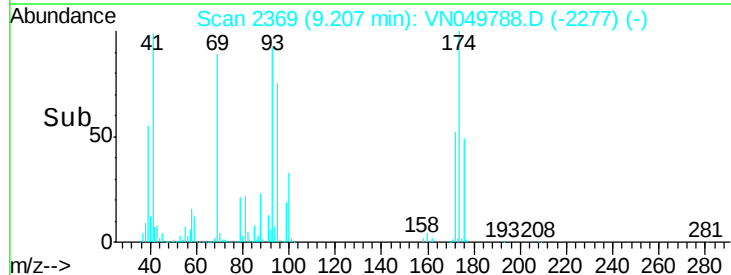
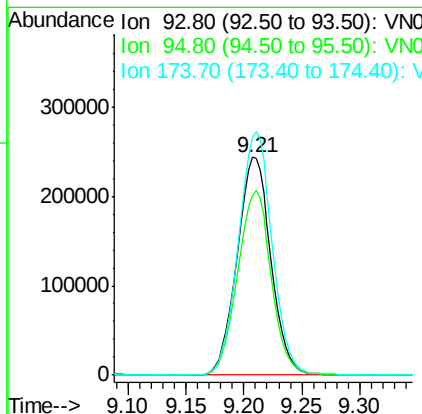
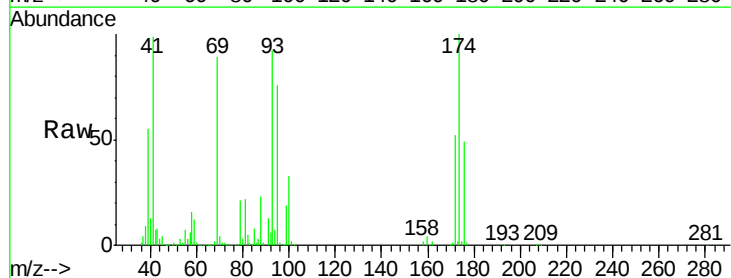
Tgt Ion: 93 Resp: 492860

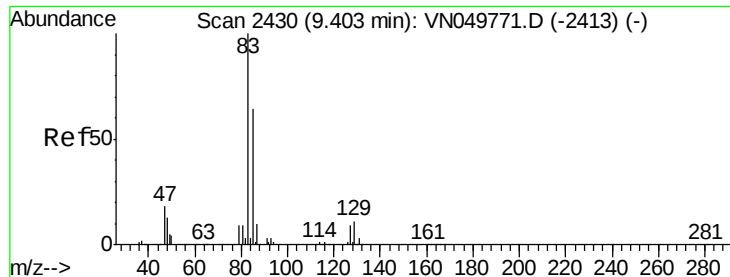
Ion Ratio Lower Upper

93 100

95 84.2 67.9 101.9

174 111.2 89.4 134.0





#47

Bromodichloromethane

Concen: 48.40 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 1113355

Ion Ratio Lower Upper

83 100

85 64.0 50.5 75.7

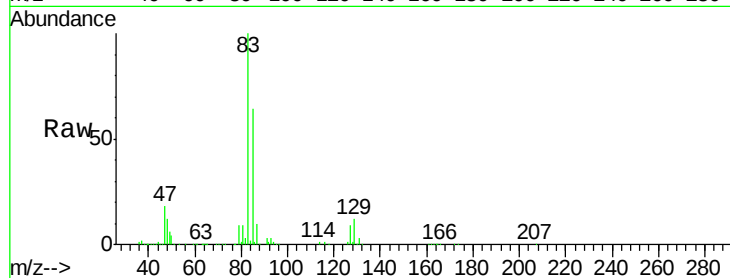
127 9.0 6.8 10.2

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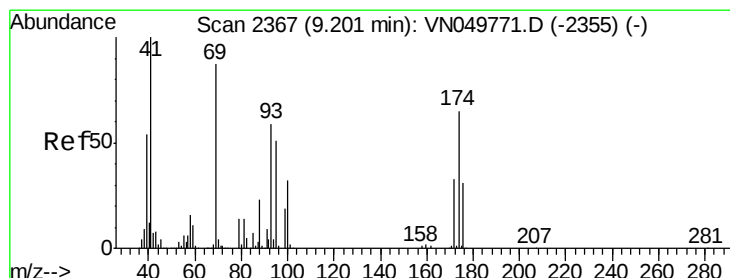
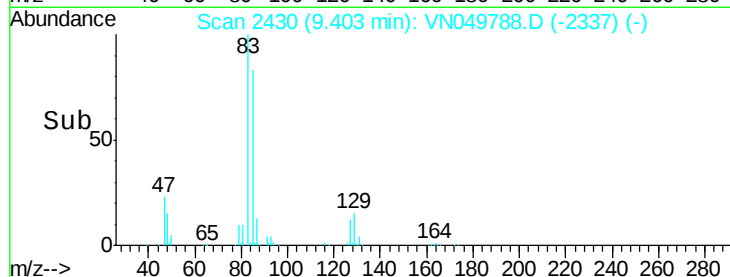
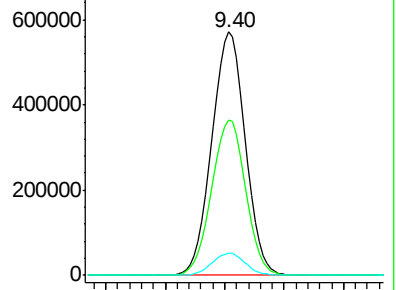
7/16/2018 11:02:42 AM



Abundance Ion 82.90 (82.60 to 83.60): VN049771.D (-2413) (-)

Ion 84.90 (84.60 to 85.60): VN049771.D (-2413) (-)

Ion 126.80 (126.50 to 127.50): VN049771.D (-2413) (-)



#48

Methyl methacrylate

Concen: 47.97 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

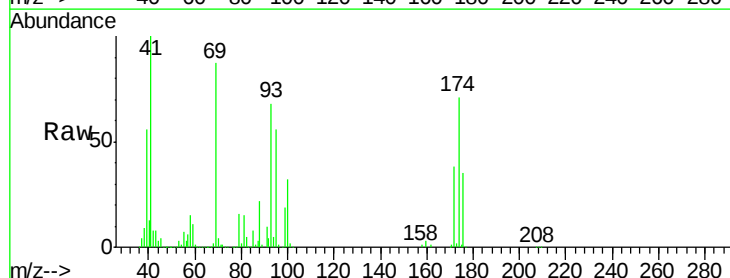
Tgt Ion: 41 Resp: 558311

Ion Ratio Lower Upper

41 100

69 88.0 71.5 107.3

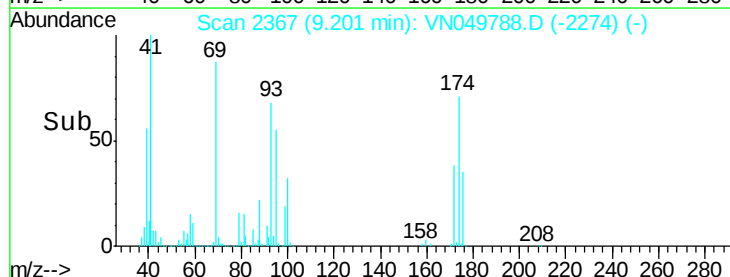
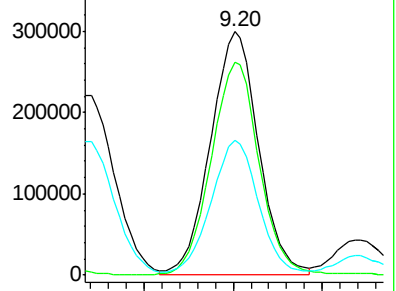
39 54.9 44.7 67.1

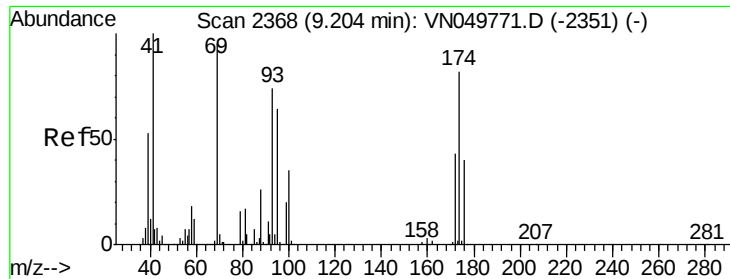


Abundance Ion 41.00 (40.70 to 41.70): VN049771.D (-2355) (-)

Ion 69.00 (68.70 to 69.70): VN049771.D (-2355) (-)

Ion 39.00 (38.70 to 39.70): VN049771.D (-2355) (-)





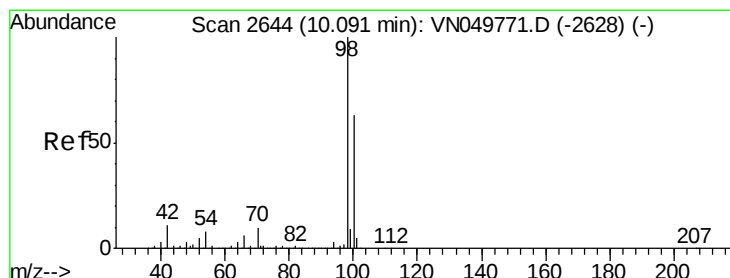
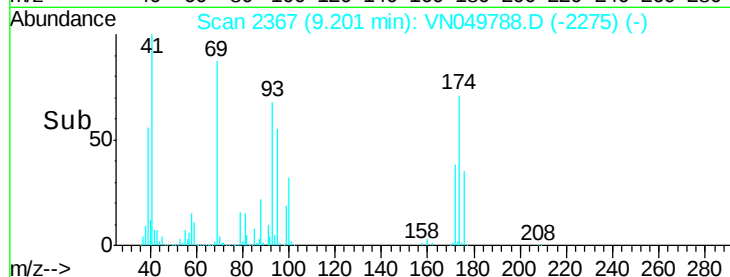
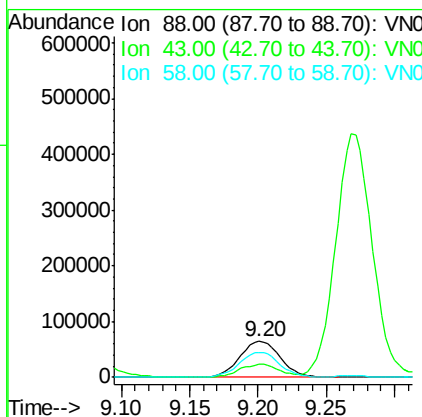
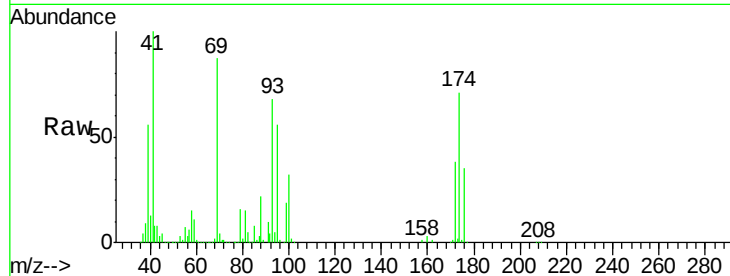
#49
1,4-Dioxane
Concen: 881.45 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.3	25.1	37.7
58	69.0	52.5	78.7

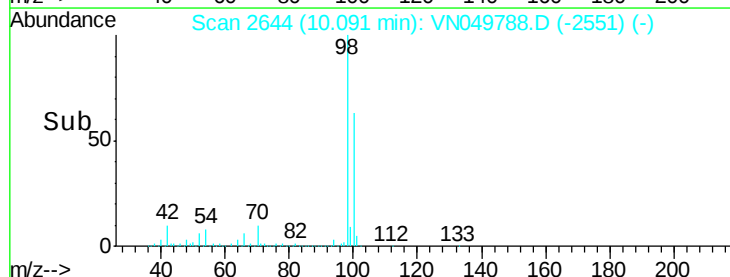
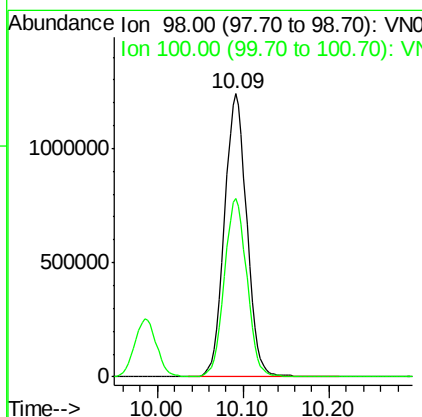
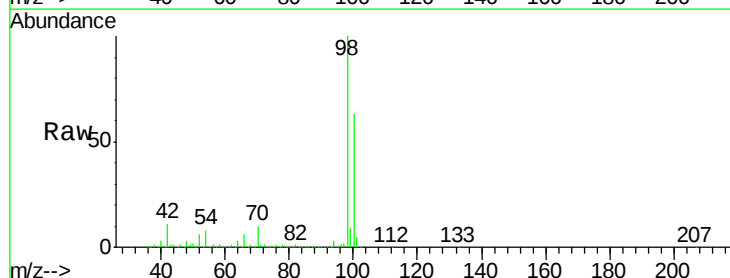
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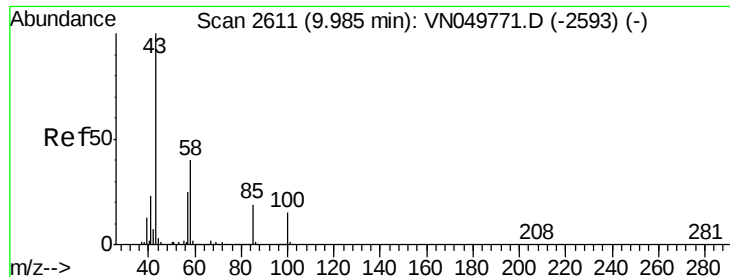
MMDadoda
7/16/2018 11:02:42 AM



#50
Toluene-d8
Concen: 45.70 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.7	77.5





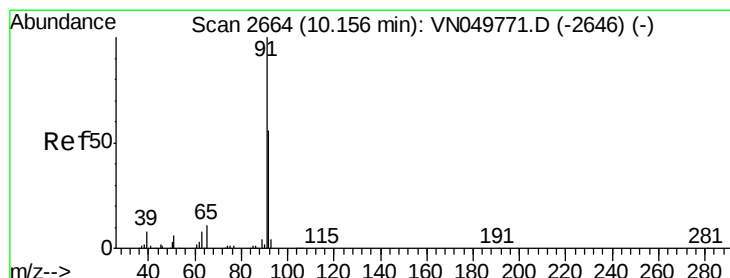
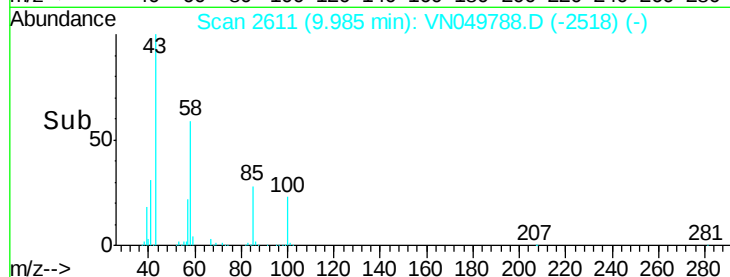
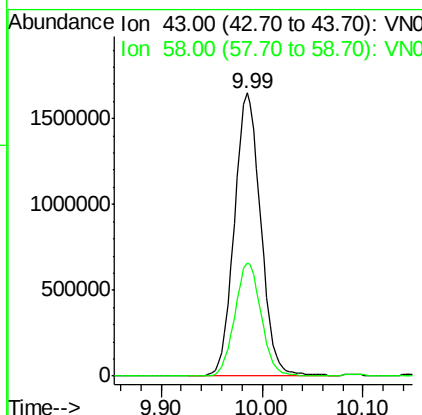
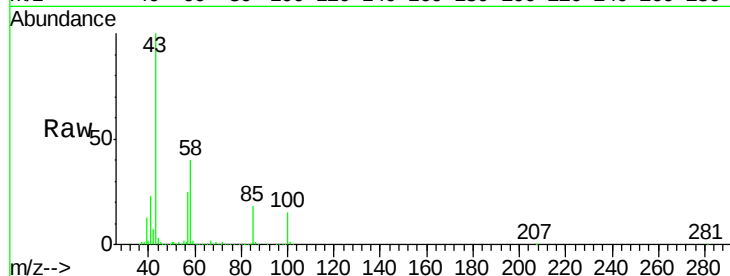
#51
4-Methyl-2-Pentanone
Concen: 236.81 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2992876
Ion Ratio Lower Upper
43 100
58 39.9 31.8 47.8

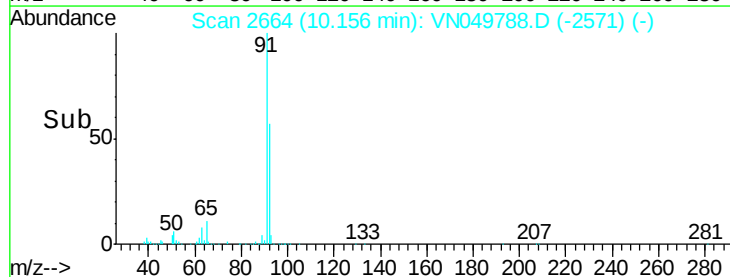
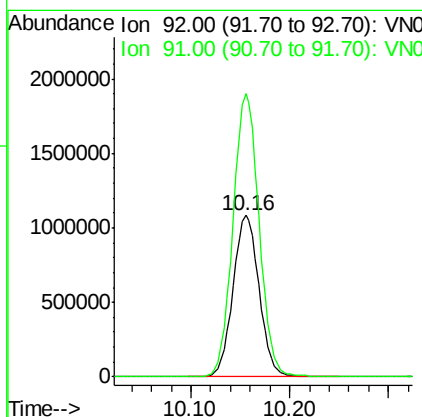
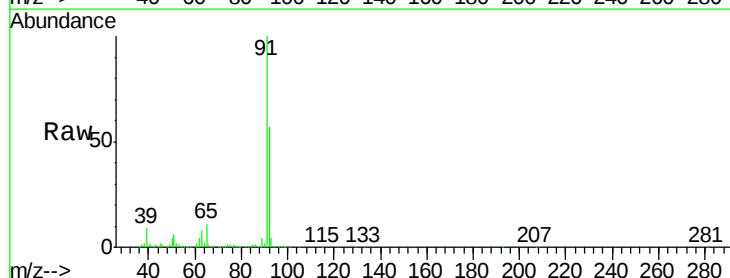
Manual Integrations
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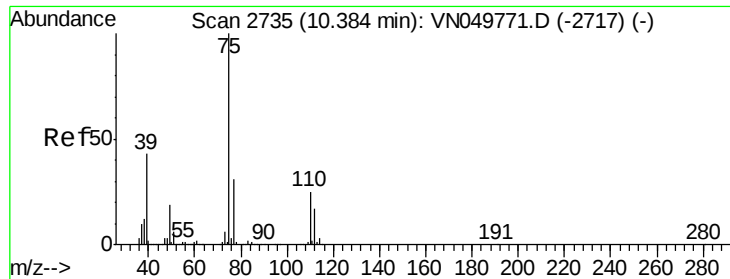
MMDadoda
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#52
Toluene
Concen: 50.94 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion: 92 Resp: 1995151
Ion Ratio Lower Upper
92 100
91 175.3 140.1 210.1





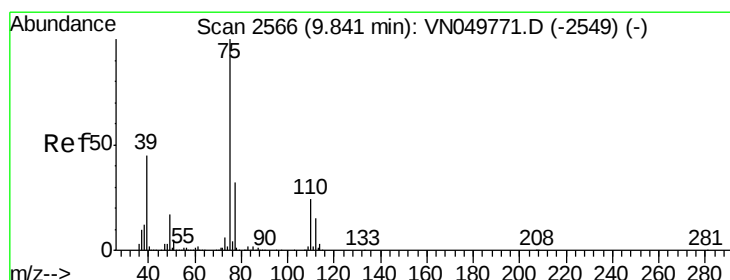
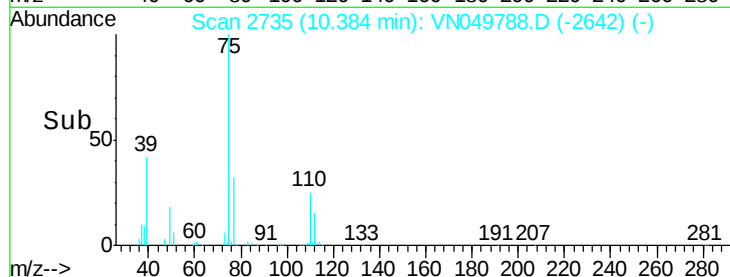
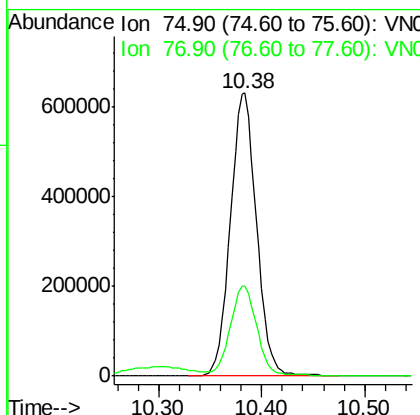
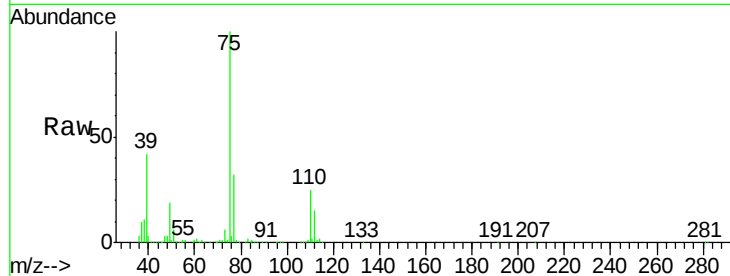
#53
 t-1,3-Dichloropropene
 Concen: 50.37 ug/l
 RT: 10.38 min Scan# 2735
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 75 Resp: 1114537
 Ion Ratio Lower Upper
 75 100
 77 31.5 25.2 37.8

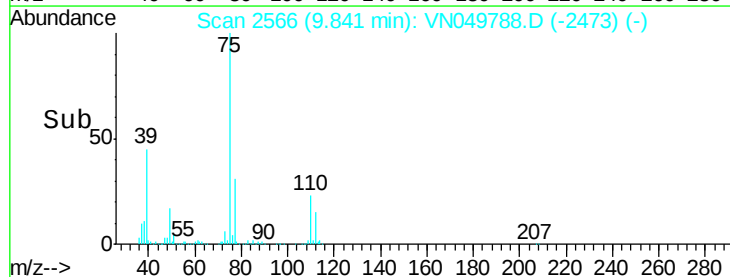
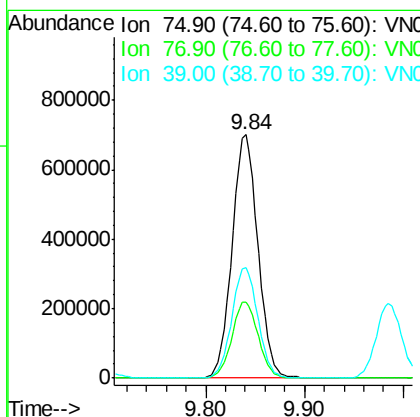
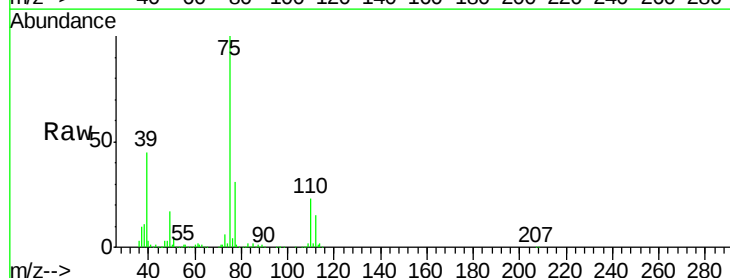
Manual Integrations
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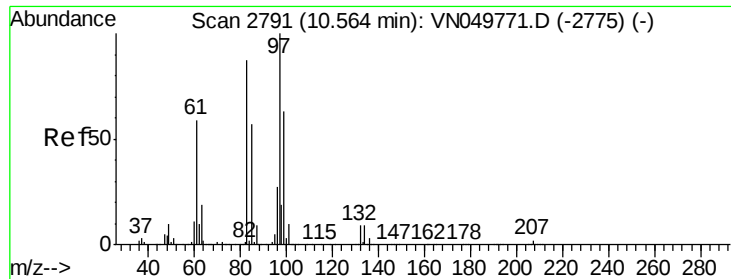
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#54
 cis-1,3-Dichloropropene
 Concen: 50.76 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion: 75 Resp: 1279374
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.3 37.9
 39 45.3 35.5 53.3





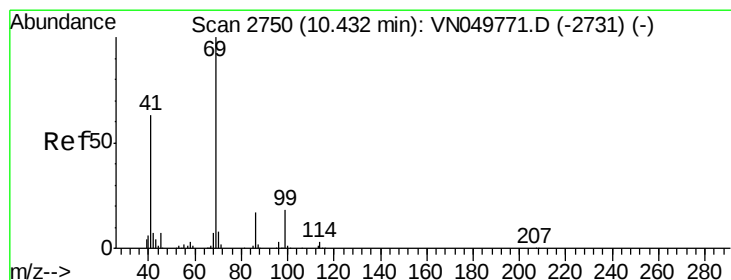
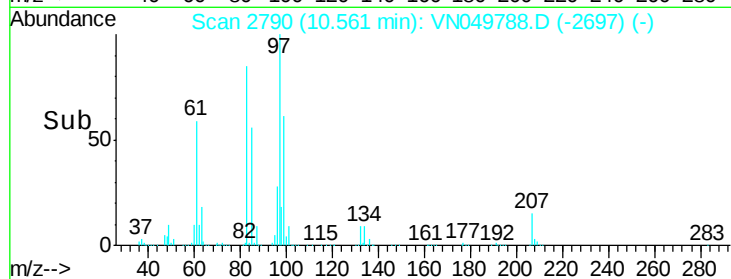
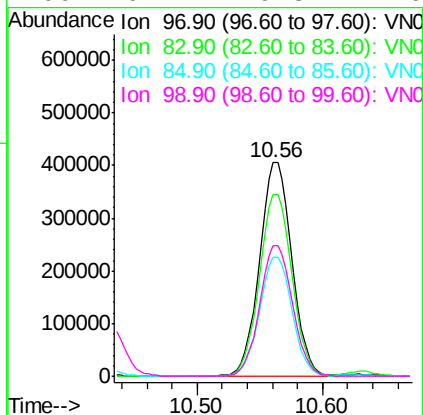
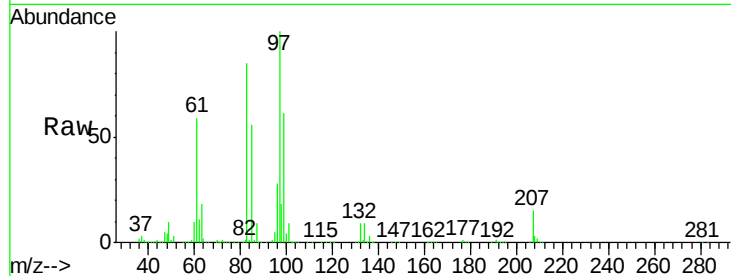
#55
 1,1,2-Trichloroethane
 Concen: 48.95 ug/l
 RT: 10.56 min Scan# 2790
 Delta R.T. -0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:	97	Resp:	725707
Ion	Ratio	Lower	Upper
97	100		
83	85.3	69.0	103.6
85	55.6	44.9	67.3
99	61.1	49.8	74.6

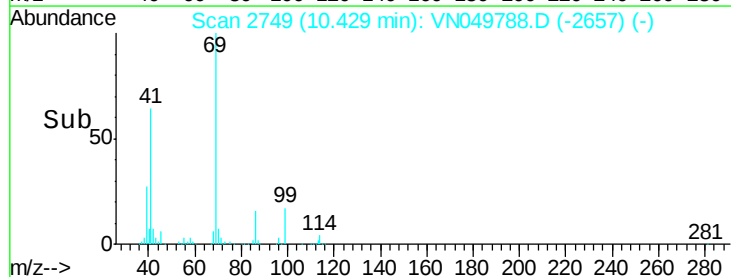
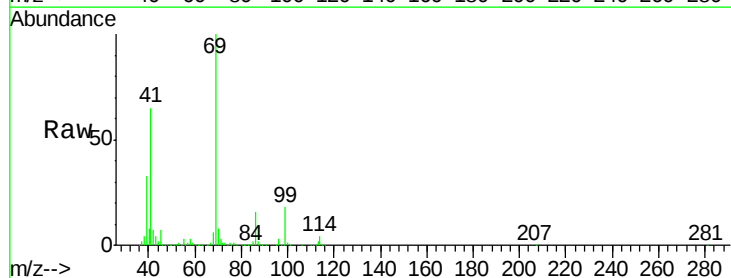
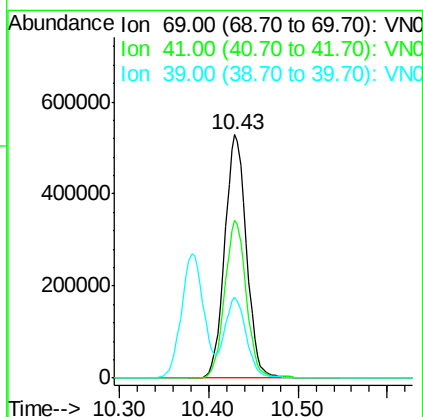
Manual Integrations
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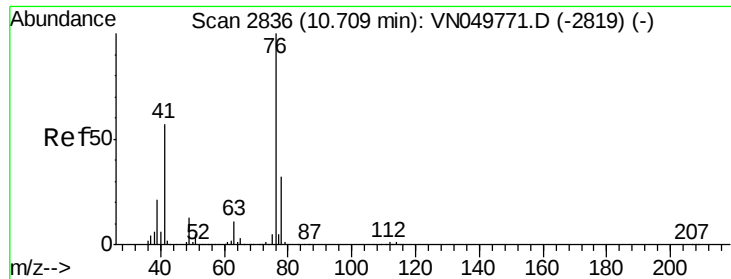
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#56
 Ethyl methacrylate
 Concen: 50.36 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion:	69	Resp:	890354
Ion	Ratio	Lower	Upper
69	100		
41	63.5	51.6	77.4
39	33.6	25.8	38.8





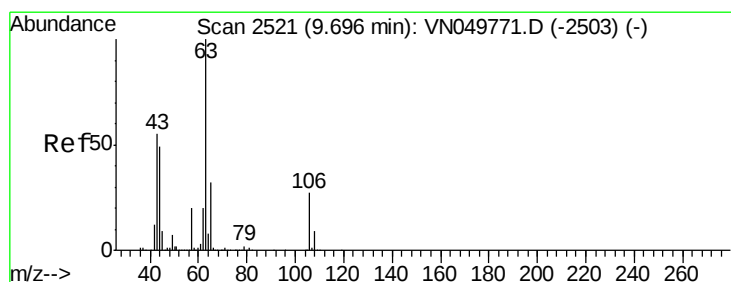
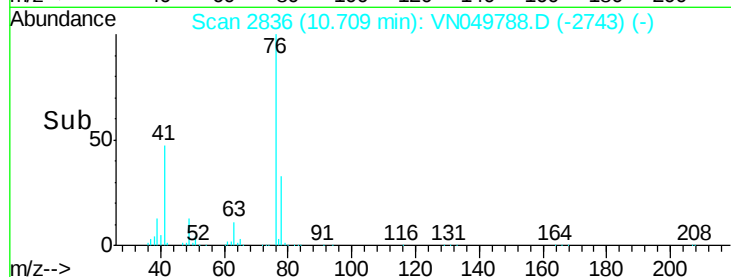
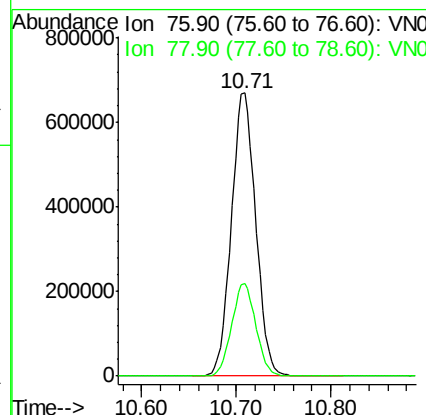
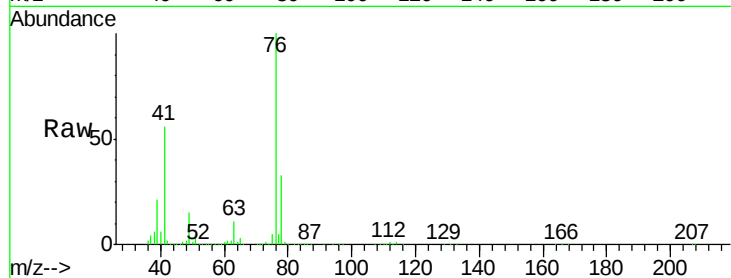
#57
 1,3-Dichloropropane
 Concen: 48.05 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 76 Resp: 1199051
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.8 38.8

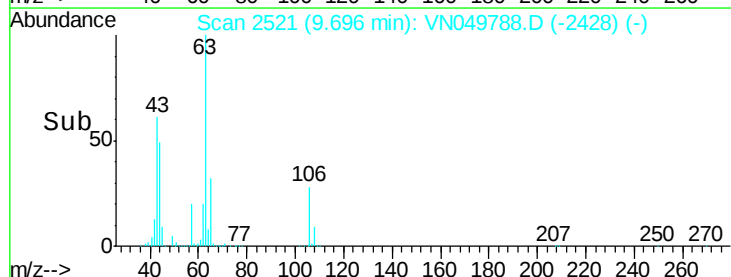
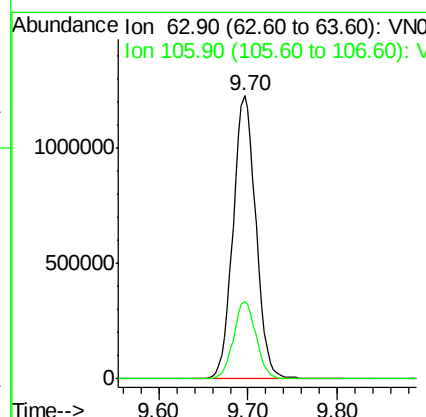
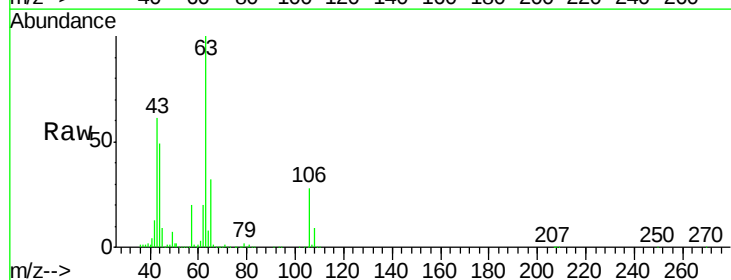
Manual Integrations
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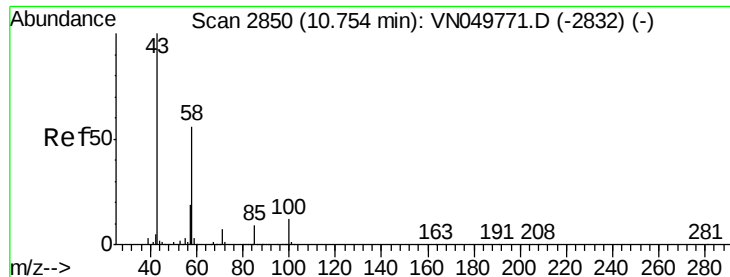
MMDadoda
 7/16/2018 11:02:42 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 256.33 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion: 63 Resp: 2173517
 Ion Ratio Lower Upper
 63 100
 106 27.3 21.8 32.8





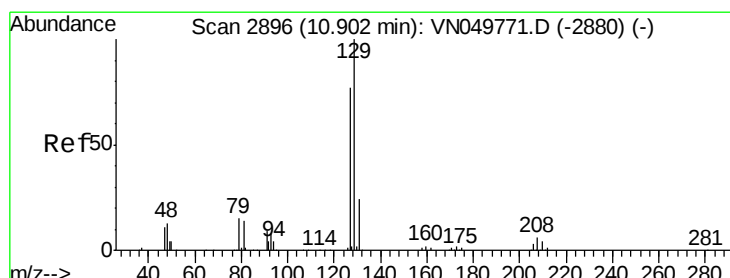
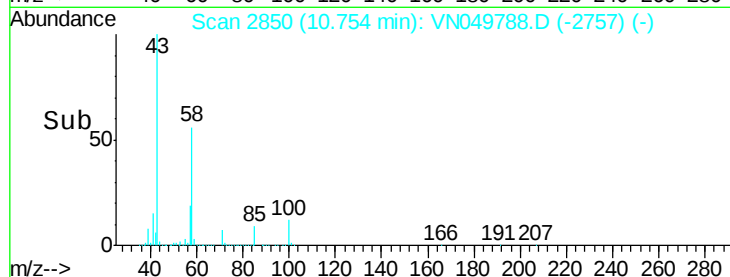
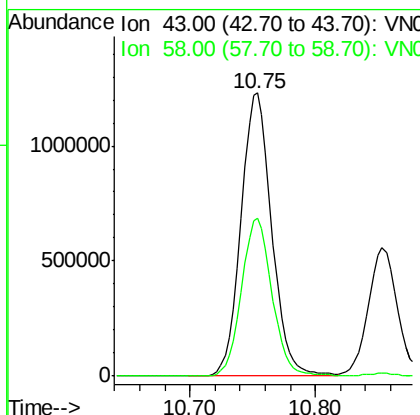
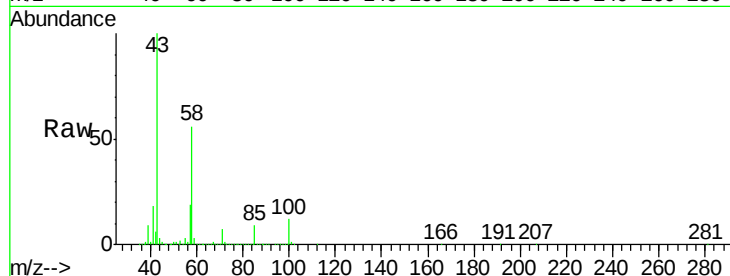
#59
2-Hexanone
Concen: 249.33 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2094801
Ion Ratio Lower Upper
43 100
58 55.5 27.8 83.4

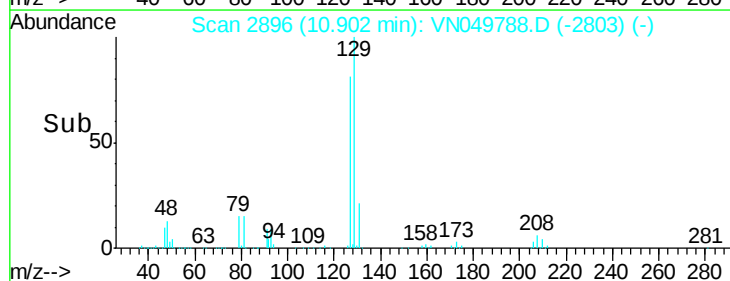
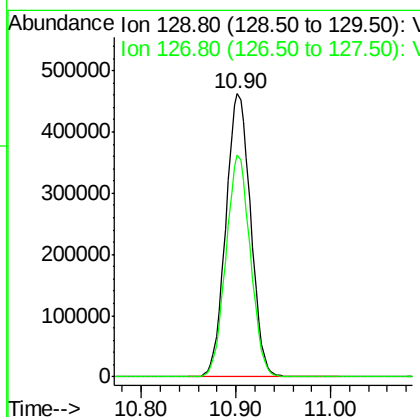
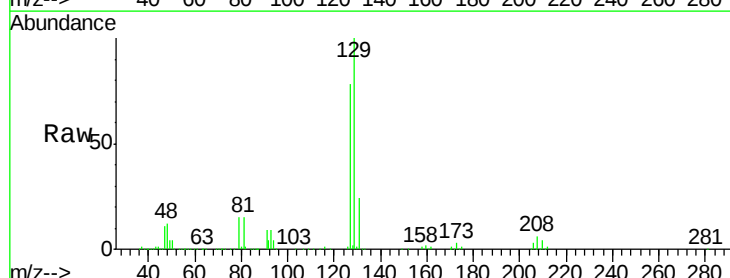
Manual Integrations
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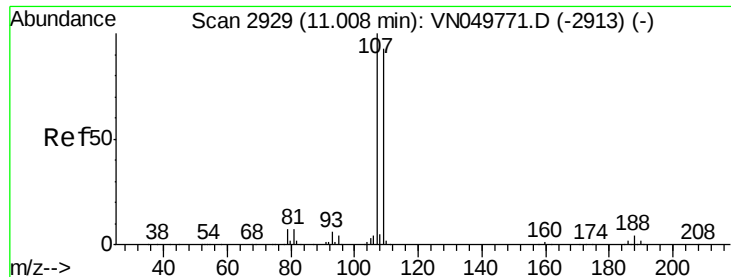
MMDadoda
7/16/2018 11:02:42 AM



#60
Dibromochloromethane
Concen: 49.10 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion: 129 Resp: 842487
Ion Ratio Lower Upper
129 100
127 77.2 38.3 114.9





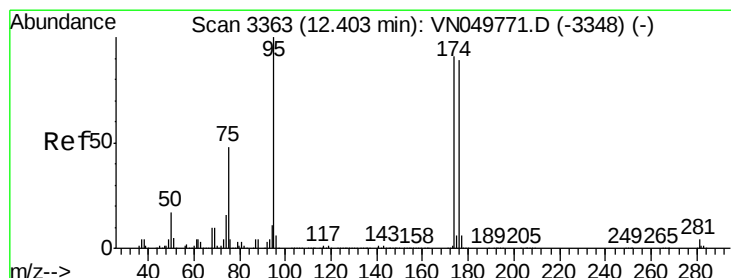
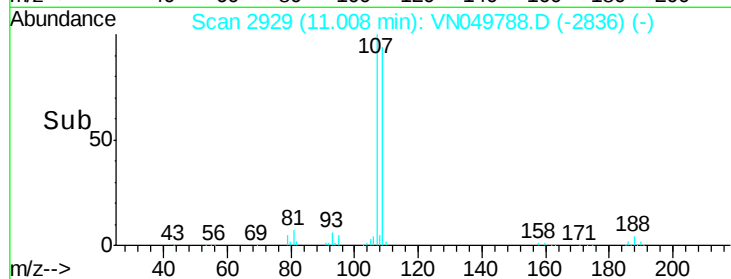
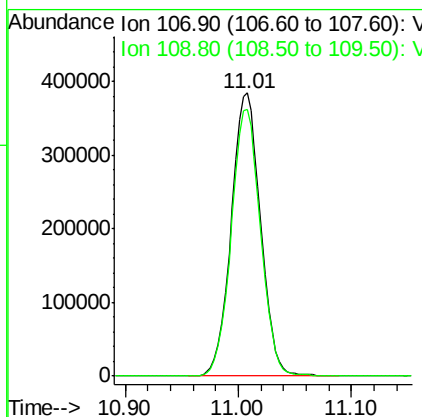
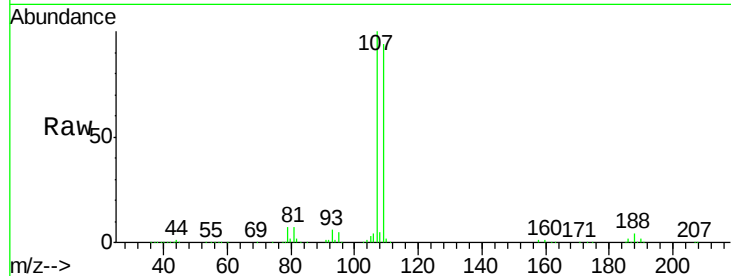
#61
 1,2-Dibromoethane
 Concen: 48.44 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	75.0	112.6

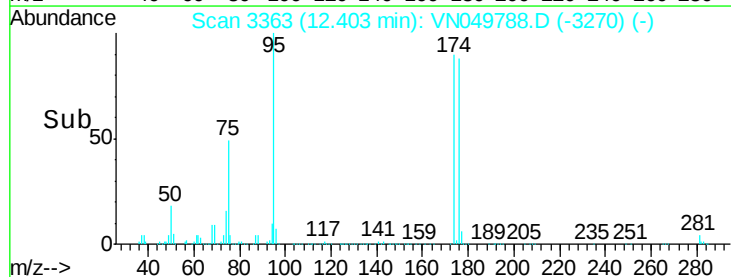
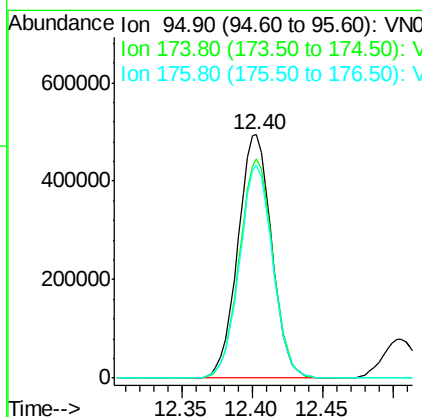
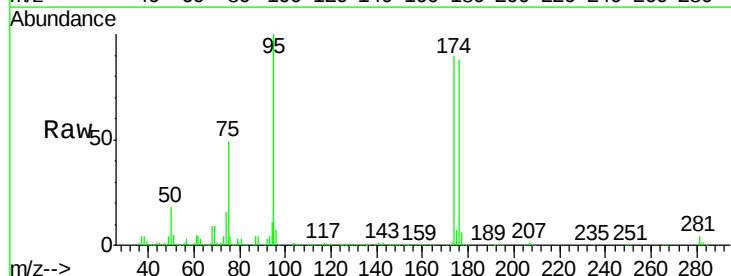
Manual Integrations
 APPROVED

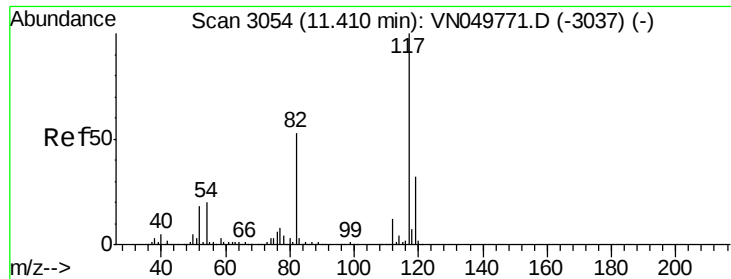
MMDadoda
 7/16/2018 11:02:42 AM



#62
 4-Bromofluorobenzene
 Concen: 47.44 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.7	0.0	179.6
176	85.9	0.0	174.0





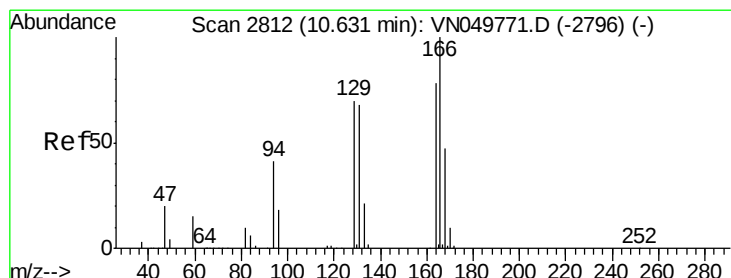
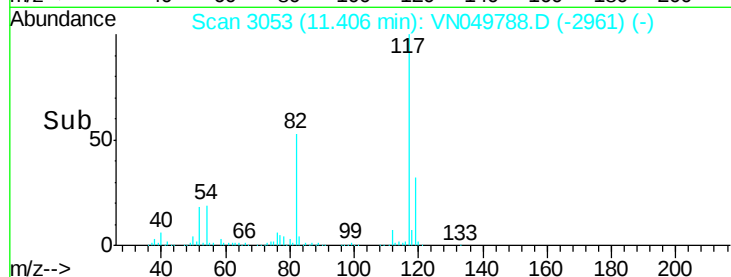
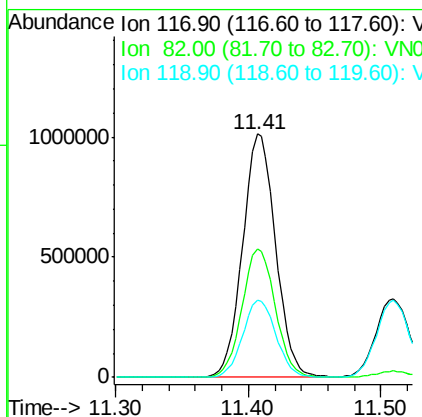
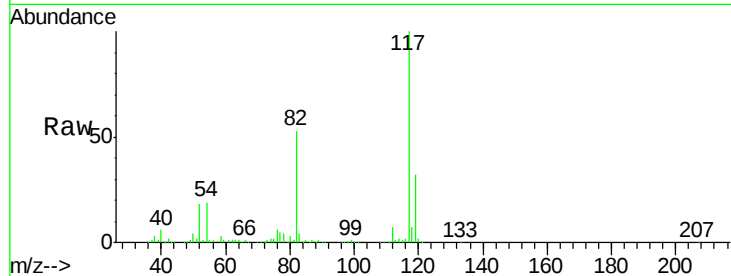
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1749456
Ion Ratio Lower Upper
117 100
82 52.7 41.9 62.9
119 31.7 25.4 38.2

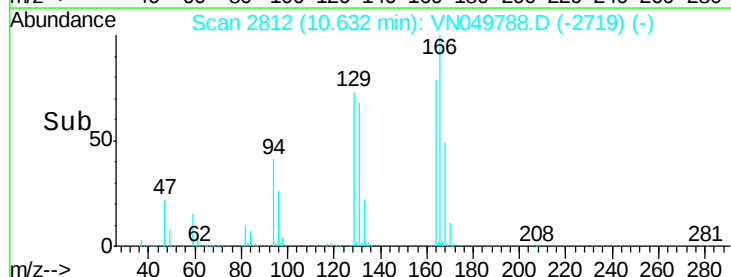
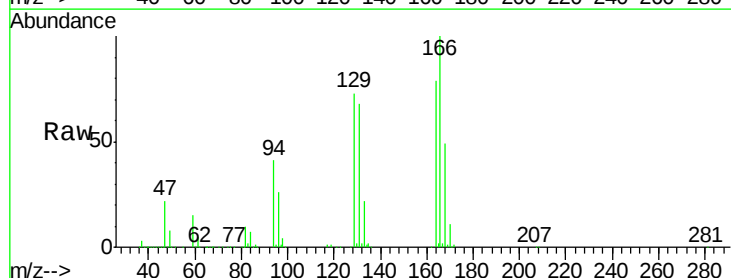
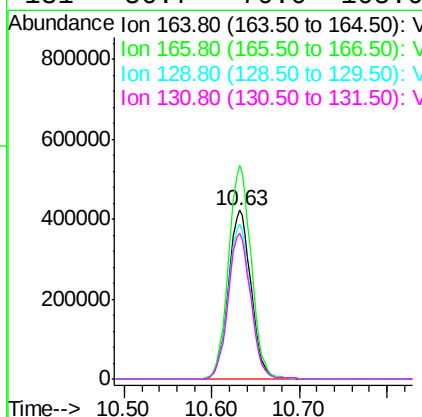
Manual Integrations
APPROVED

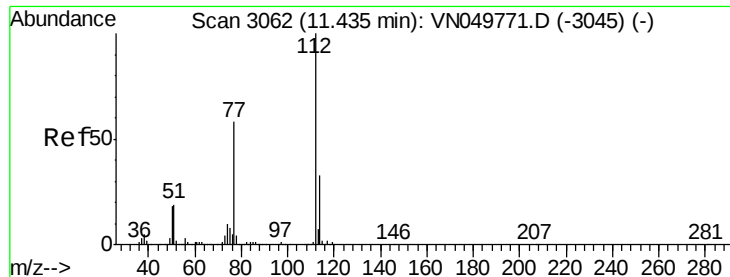
MMDadoda
7/16/2018 11:02:42 AM



#64
Tetrachloroethene
Concen: 47.61 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion:164 Resp: 756226
Ion Ratio Lower Upper
164 100
166 126.7 101.8 152.6
129 92.2 72.8 109.2
131 86.7 70.0 105.0





#65

Chlorobenzene

Concen: 48.59 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 2214665

Ion Ratio Lower Upper

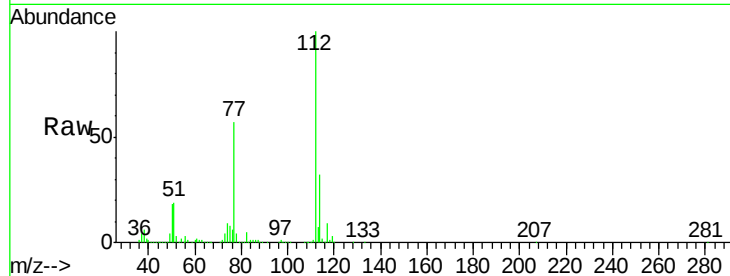
112 100

114 31.5 25.4 38.0

Manual Integrations
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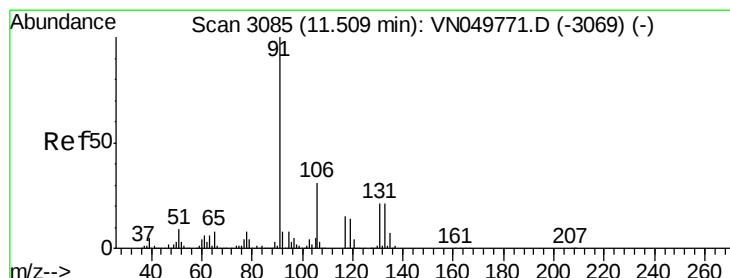
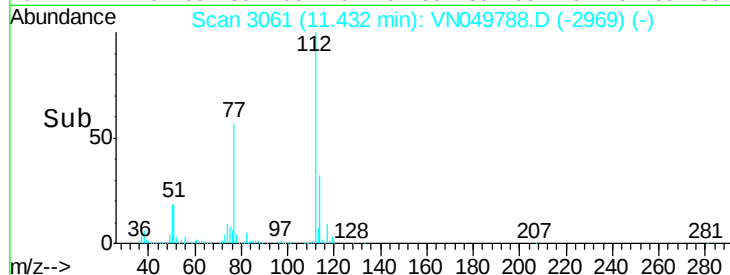
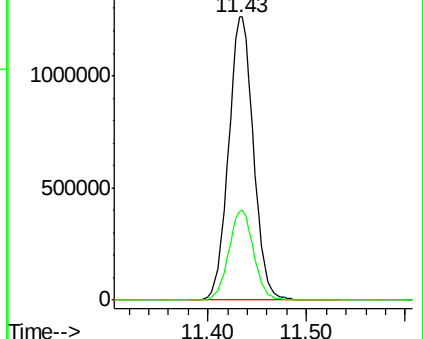
MMDadoda

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 49.59 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

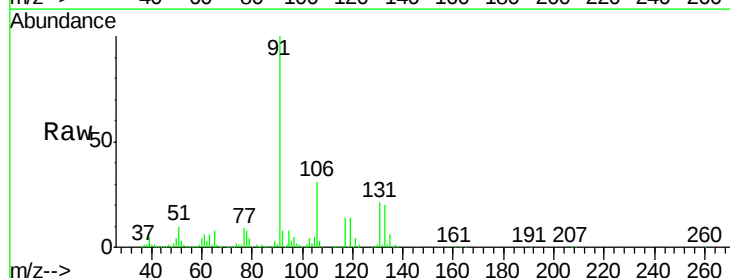
Tgt Ion:131 Resp: 850369

Ion Ratio Lower Upper

131 100

133 95.2 47.5 142.6

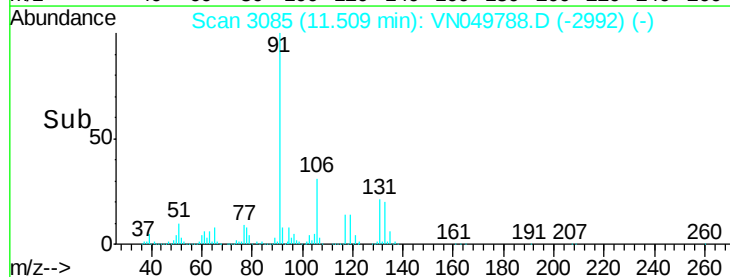
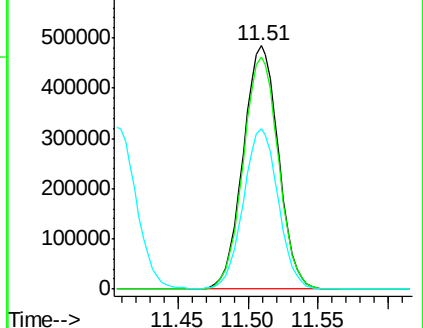
119 65.2 33.1 99.3

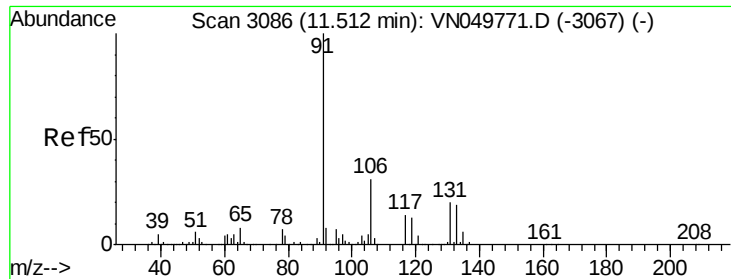


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 51.46 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 3840729

Ion Ratio Lower Upper

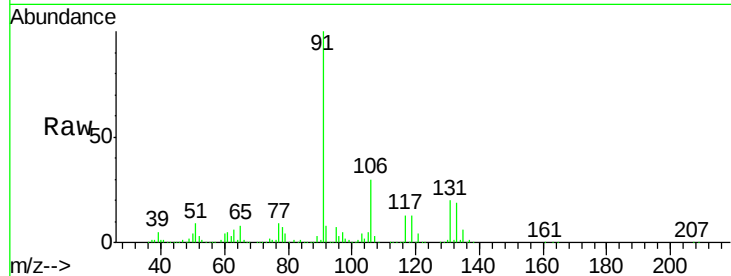
91 100

106 30.5 24.8 37.2

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN049771.D (-3067) (-)

Ion 106.00 (105.70 to 106.70): VN049771.D (-3067) (-)

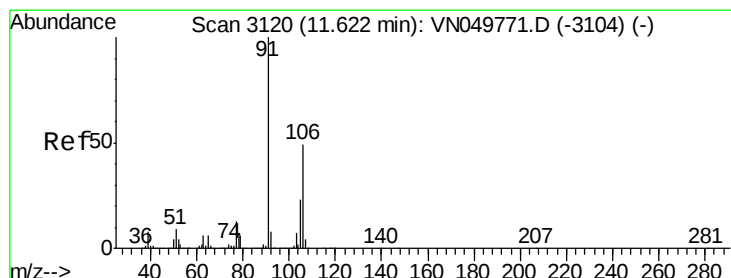
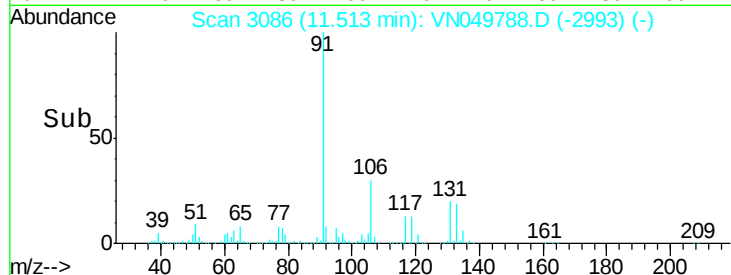
3000000

2000000

1000000

0

Time--> 11.40 11.50 11.60



#68

m/p-Xylenes

Concen: 104.94 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN049788.D

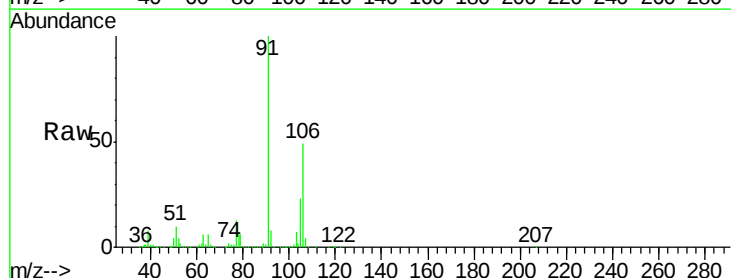
Acq: 13 Jul 2018 10:06

Tgt Ion: 106 Resp: 2939615

Ion Ratio Lower Upper

106 100

91 202.9 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): VN049771.D (-3104) (-)

Ion 91.00 (90.70 to 91.70): VN049771.D (-3104) (-)

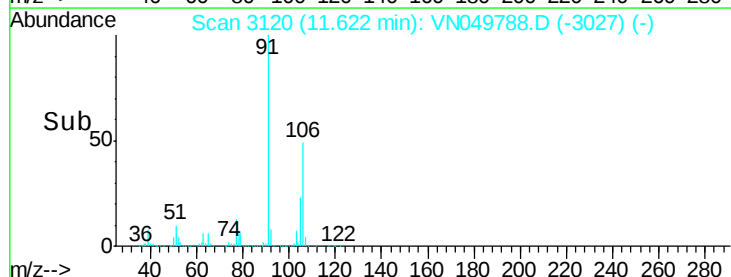
3000000

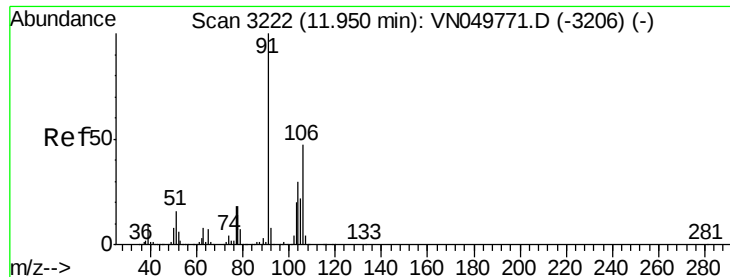
2000000

1000000

0

Time--> 11.60 11.70





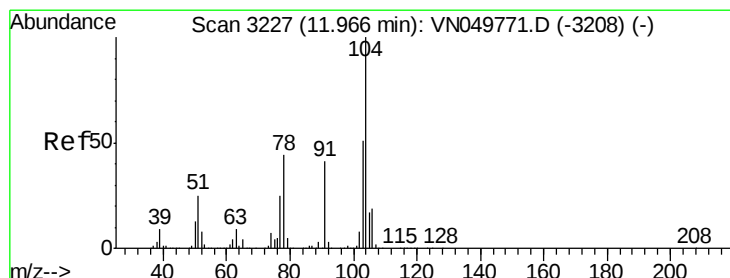
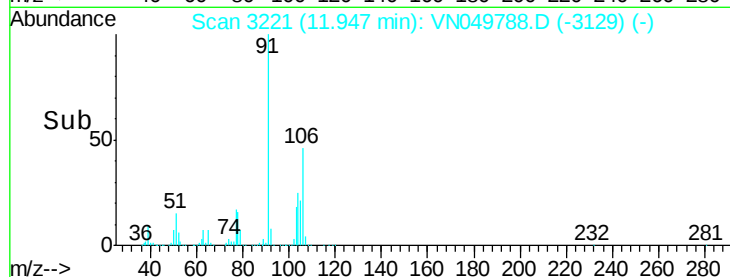
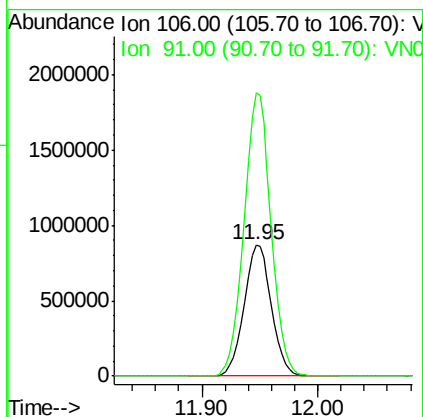
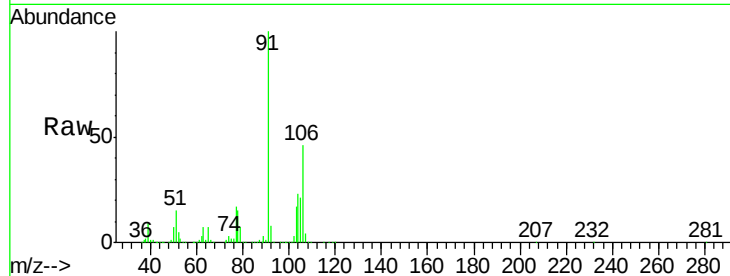
#69
o-Xylene
Concen: 52.46 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion:106 Resp: 1419505
Ion Ratio Lower Upper
106 100
91 213.9 108.7 326.1

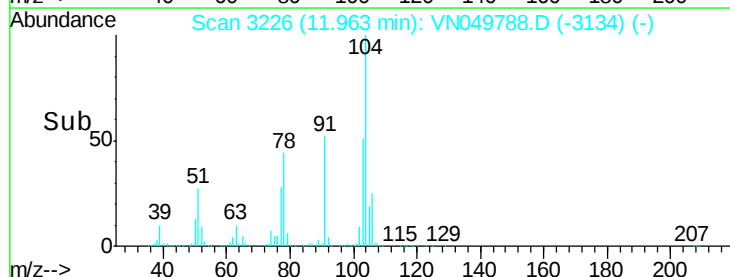
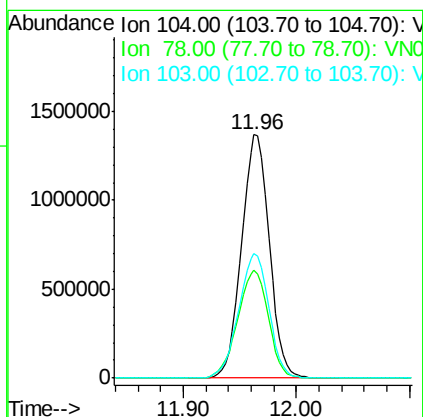
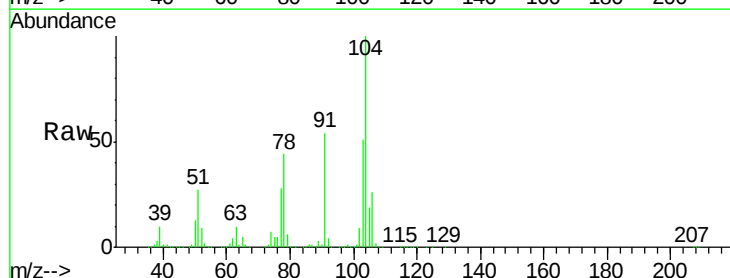
Manual Integrations
APPROVED

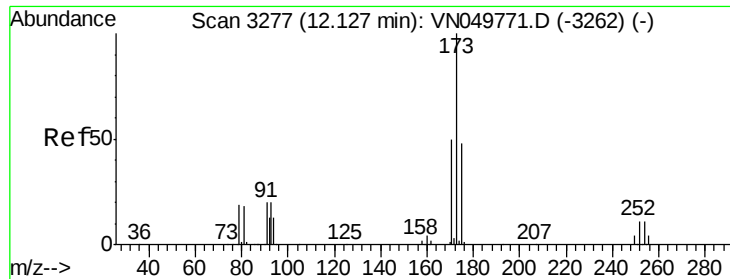
MMDadoda
7/16/2018 11:02:42 AM



#70
Styrene
Concen: 54.53 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion:104 Resp: 2343860
Ion Ratio Lower Upper
104 100
78 48.8 39.2 58.8
103 55.6 44.6 67.0





#71

Bromoform

Concen: 48.77 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 564982

Ion Ratio Lower Upper

173 100

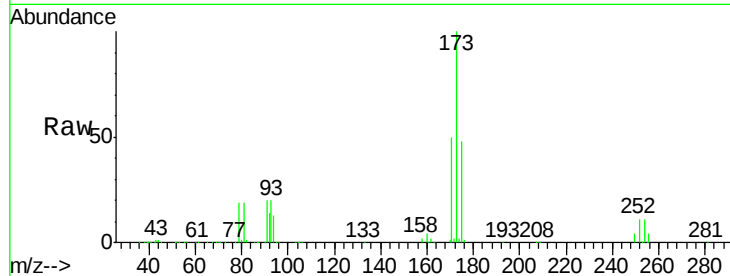
175 48.8 24.6 73.8

254 0.2 0.2 0.2

Manual Integrations
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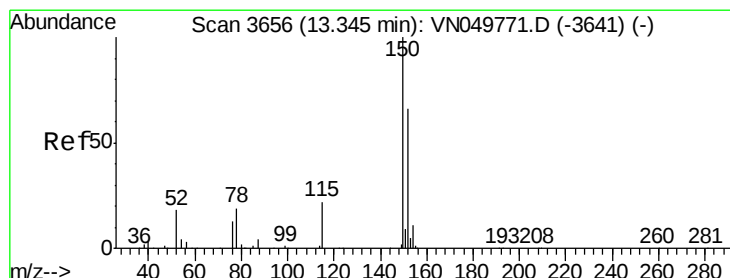
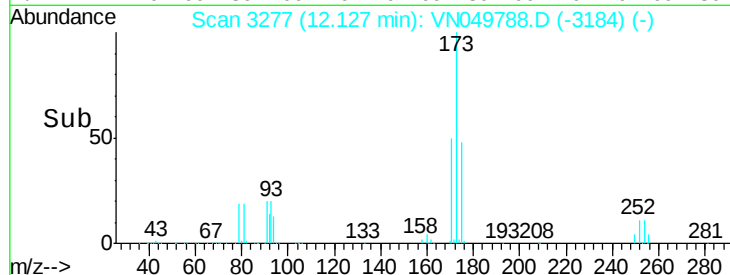
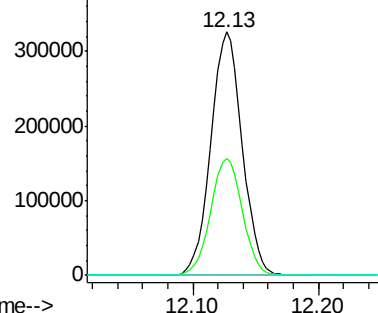
7/16/2018 11:02:42 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

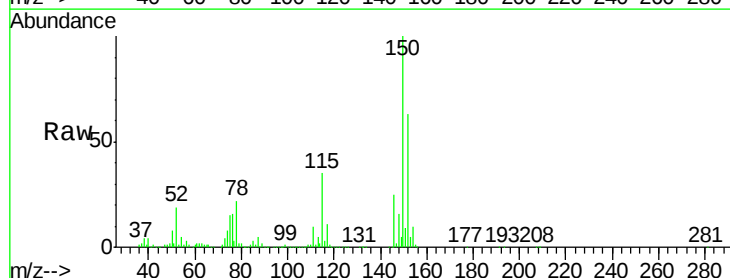
Tgt Ion:152 Resp: 920901

Ion Ratio Lower Upper

152 100

115 56.3 28.1 84.2

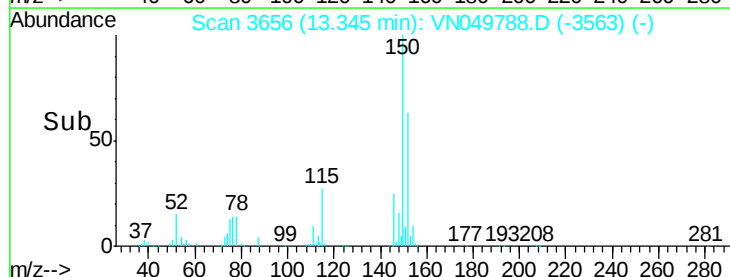
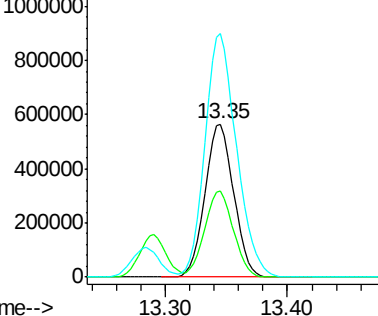
150 174.8 0.0 347.6

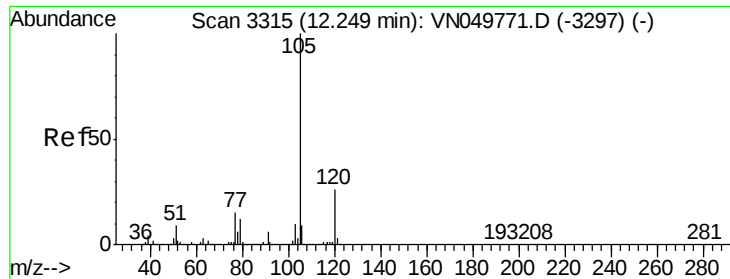


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





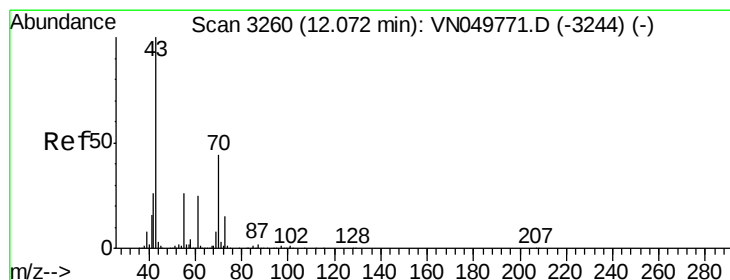
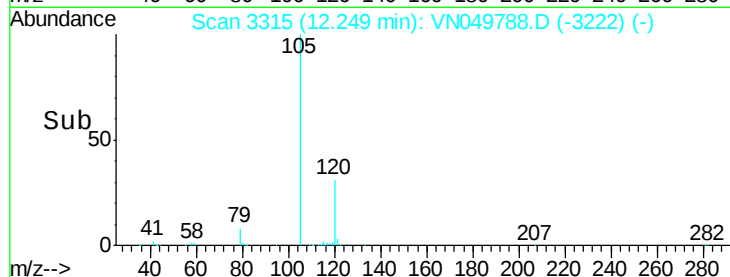
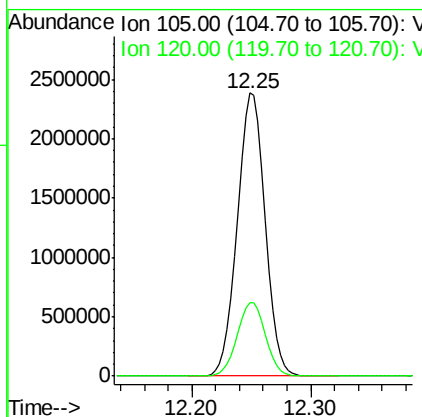
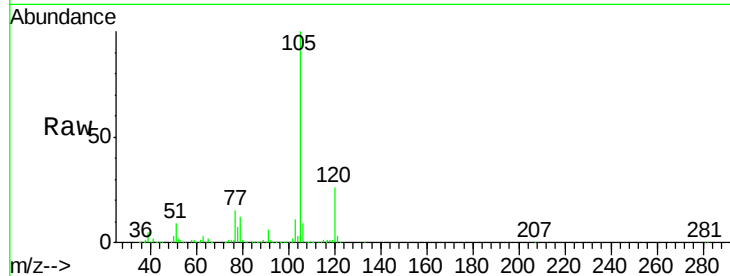
#73
Isopropylbenzene
Concen: 50.40 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:105 Resp: 3857100
Ion Ratio Lower Upper
105 100
120 26.5 13.3 39.8

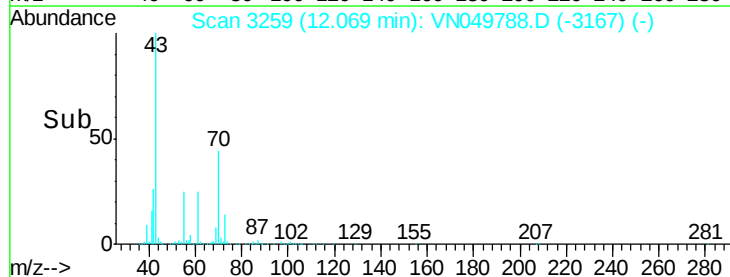
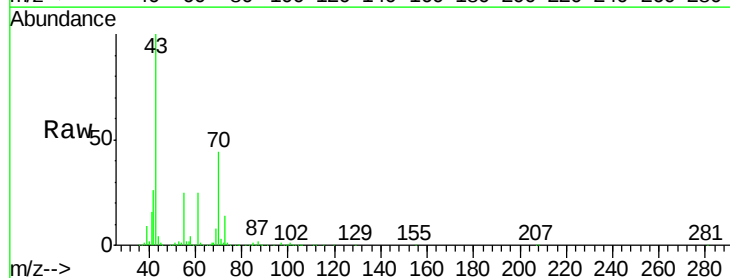
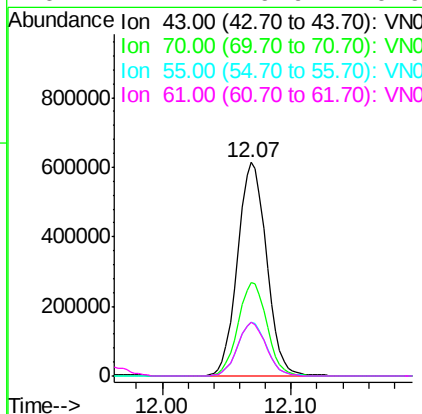
Manual Integrations
APPROVED

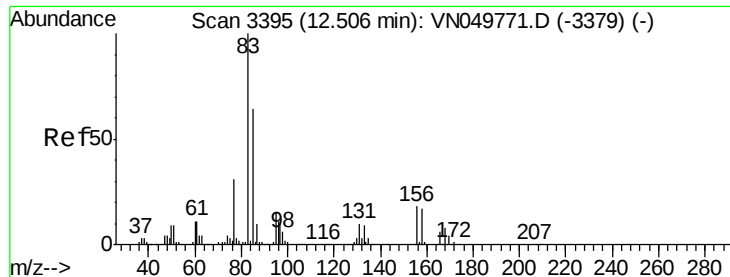
MMDadoda
7/16/2018 11:02:42 AM



#74
N-ethyl acetate
Concen: 48.21 ug/l
RT: 12.07 min Scan# 3259
Delta R.T. -0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion: 43 Resp: 959776
Ion Ratio Lower Upper
43 100
70 43.6 34.8 52.2
55 25.4 20.9 31.3
61 24.7 19.9 29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 48.63 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 858560
Ion Ratio Lower Upper

83 100

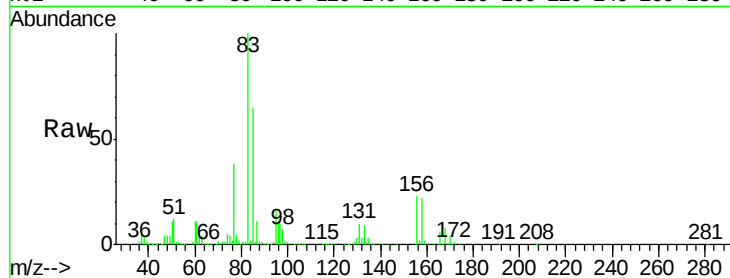
131 10.7 5.2 15.6

85 64.8 32.5 97.4

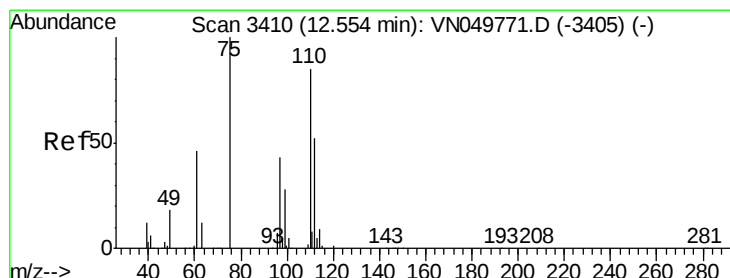
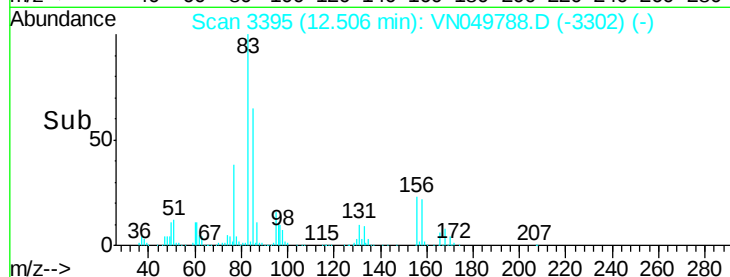
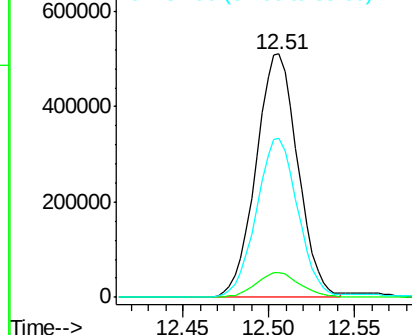
Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN049771.D (-3379) (-)
Ion 130.80 (130.50 to 131.50): VN049771.D (-3379) (-)
Ion 84.90 (84.60 to 85.60): VN049771.D (-3379) (-)



#76

1,2,3-Trichloropropane

Concen: 43.08 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

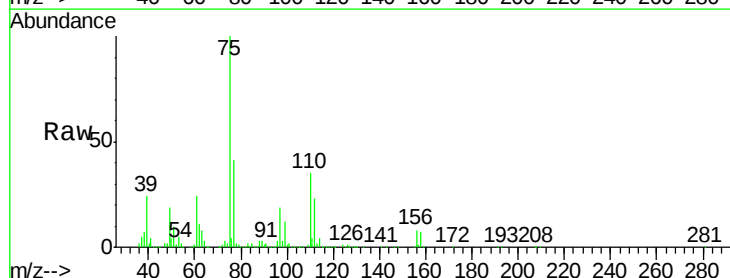
Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

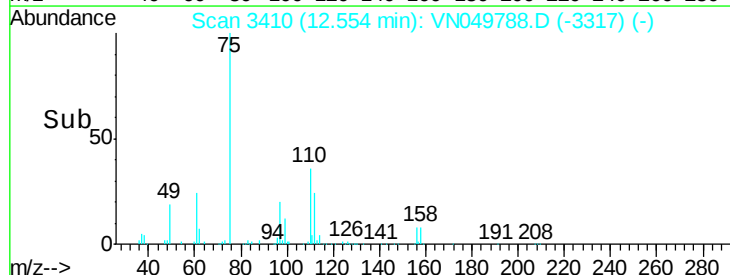
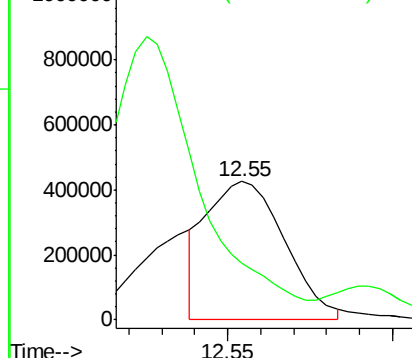
Tgt Ion: 75 Resp: 704802
Ion Ratio Lower Upper

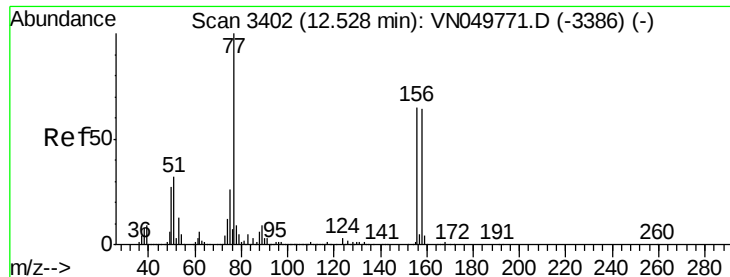
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN049771.D (-3405) (-)
Ion 77.00 (76.70 to 77.70): VN049771.D (-3405) (-)





#77

Bromobenzene

Concen: 47.53 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

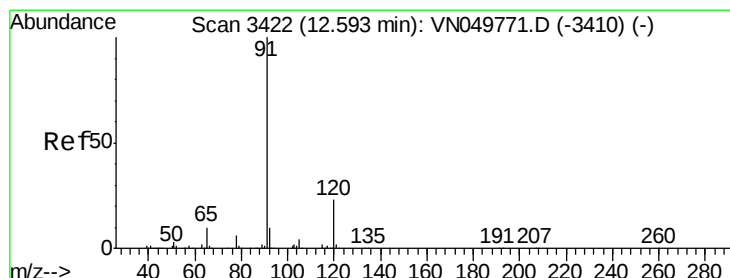
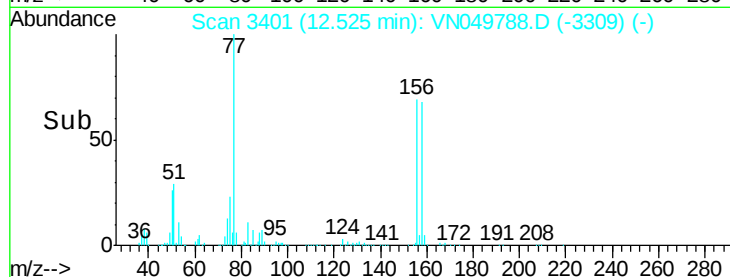
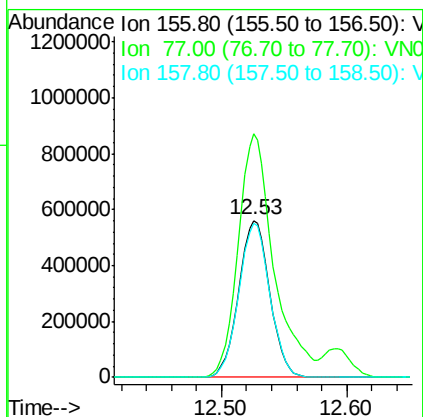
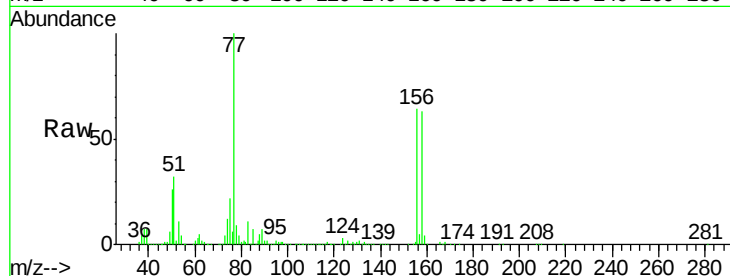
ClientSampled :

VSTDCCC050

Tot Ion:	156	Resp:	965027
Ion Ratio	Lower	Upper	
156	100		
77	179.1	90.2	270.6
158	98.0	49.1	147.3

Manual Integrations
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#78

n-propylbenzene

Concen: 51.34 ug/l

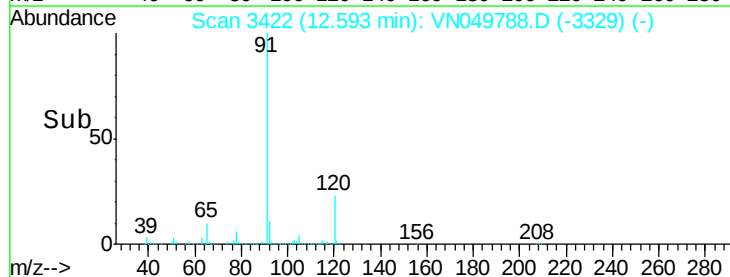
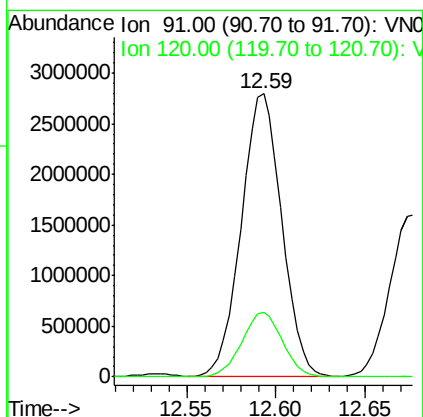
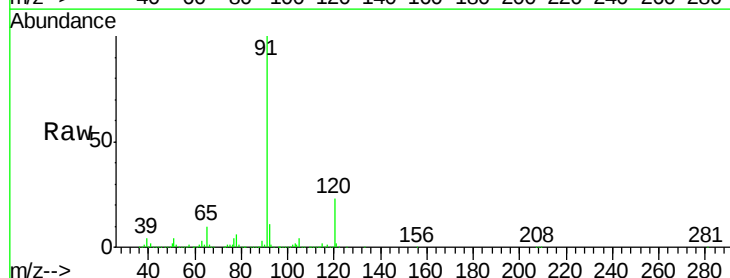
RT: 12.59 min Scan# 3422

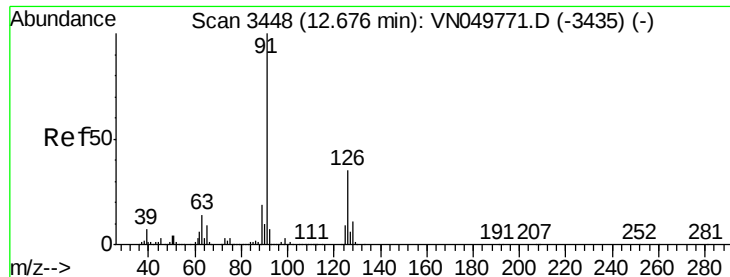
Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Tgt Ion:	91	Resp:	4429817
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.5	34.4





#79

2-Chlorotoluene

Concen: 49.59 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 2618578

Ion Ratio Lower Upper

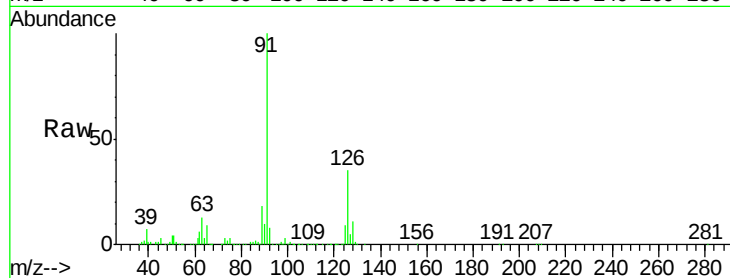
91 100

126 35.1 17.5 52.5

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN049771.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN049771.D (-3435) (-)

2500000

2000000

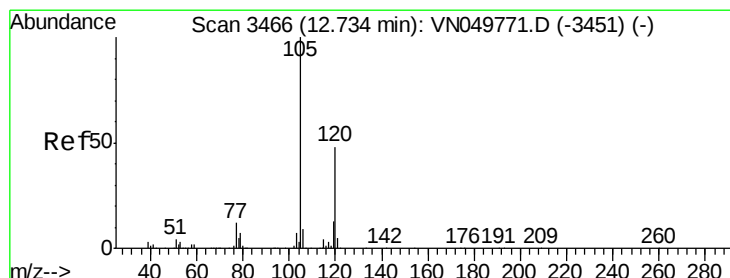
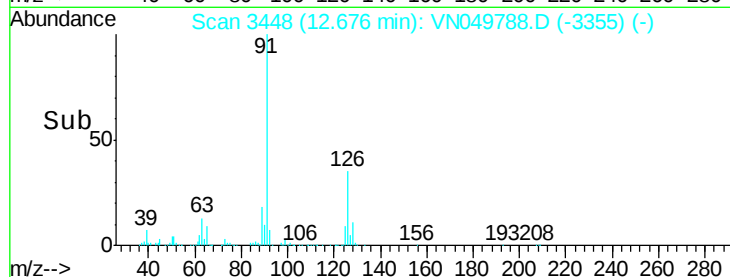
1500000

1000000

500000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 51.54 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049788.D

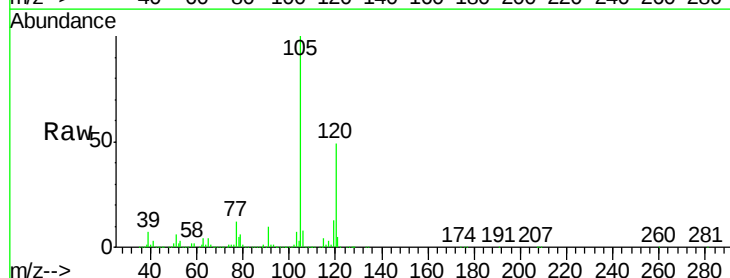
Acq: 13 Jul 2018 10:06

Tgt Ion: 105 Resp: 3134730

Ion Ratio Lower Upper

105 100

120 49.2 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049771.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN049771.D (-3451) (-)

2000000

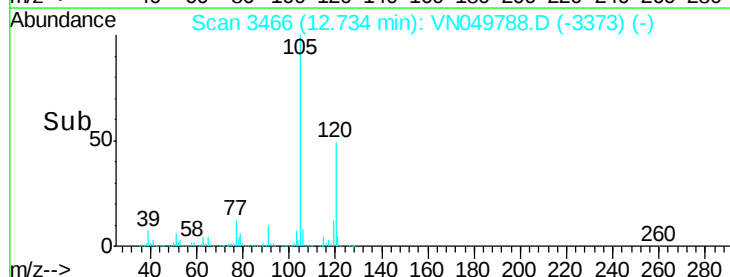
1500000

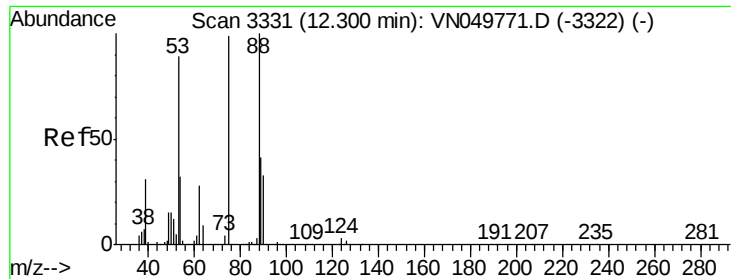
1000000

500000

0

Time--> 12.70 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 48.37 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

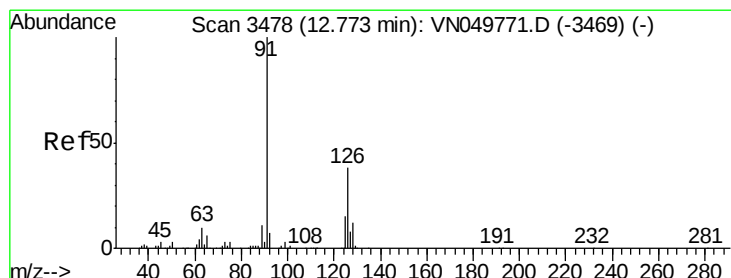
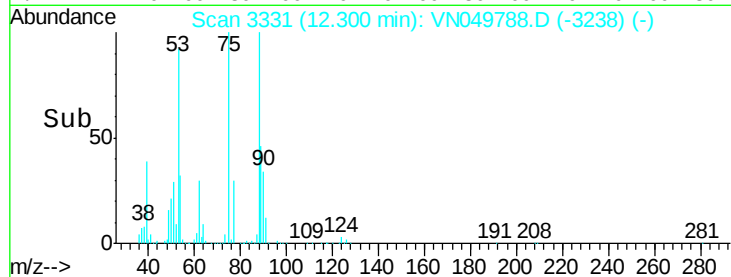
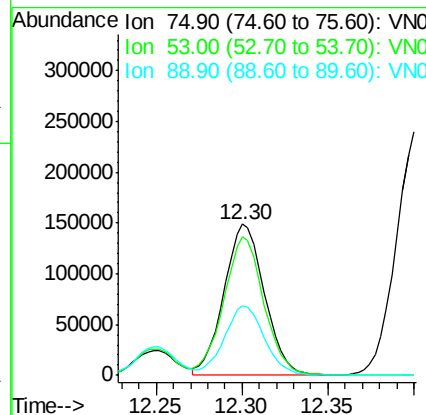
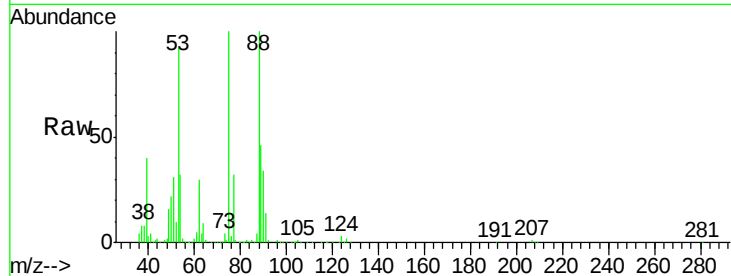
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	245041
Ion	Ratio	Lower	Upper
75	100		
53	91.2	73.9	110.9
89	45.4	35.9	53.9

Manual Integrations
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#82

4-Chlorotoluene

Concen: 50.73 ug/l

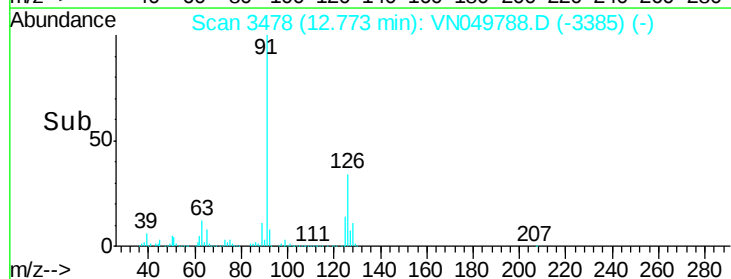
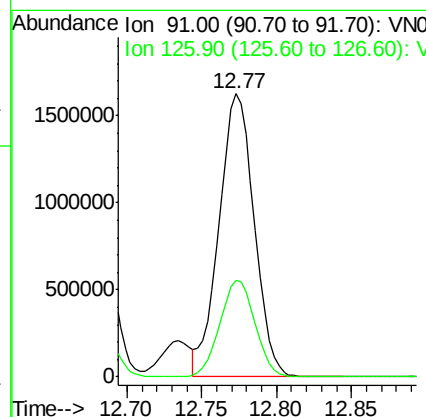
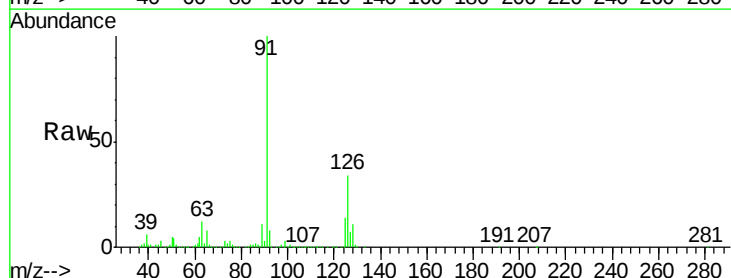
RT: 12.77 min Scan# 3478

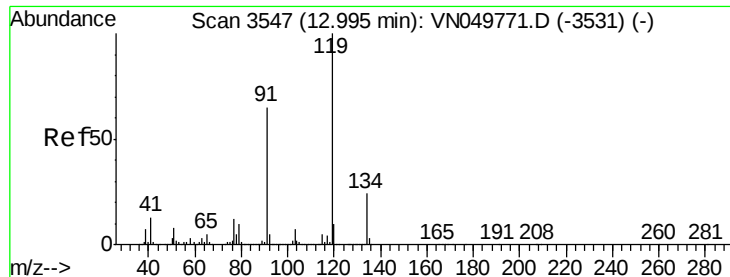
Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Tgt Ion:	91	Resp:	2657172
Ion	Ratio	Lower	Upper
91	100		
126	34.1	17.2	51.6





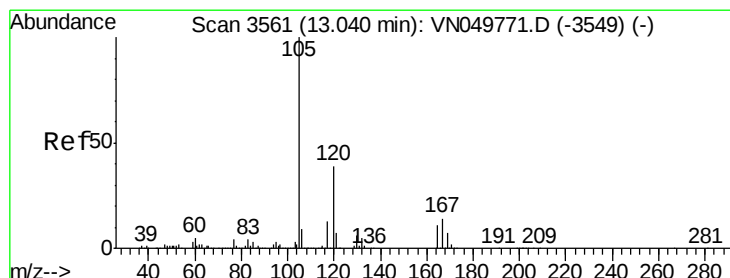
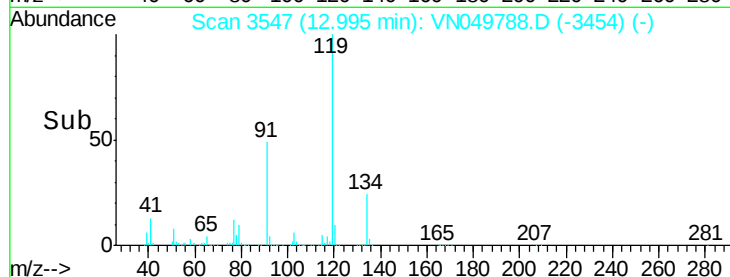
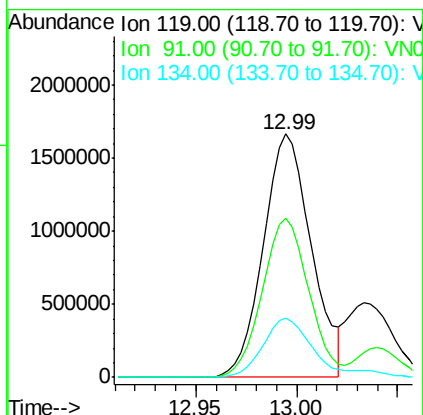
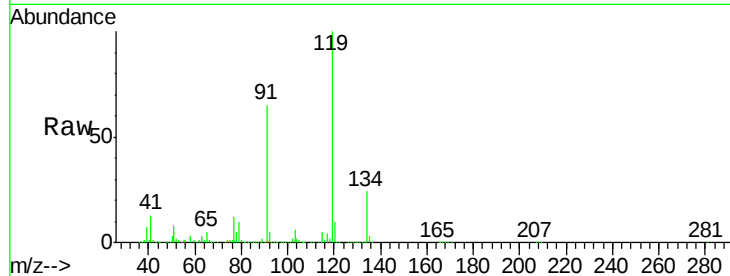
#83
tert-Butylbenzene
Concen: 50.70 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:119 Resp: 2759000
Ion Ratio Lower Upper
119 100
91 63.3 32.0 96.2
134 26.2 12.8 38.4

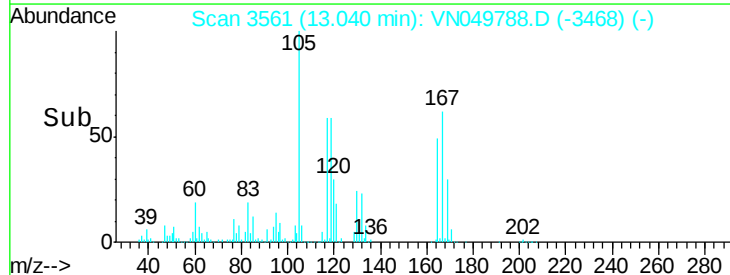
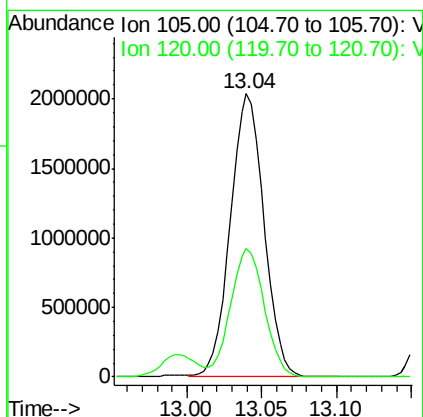
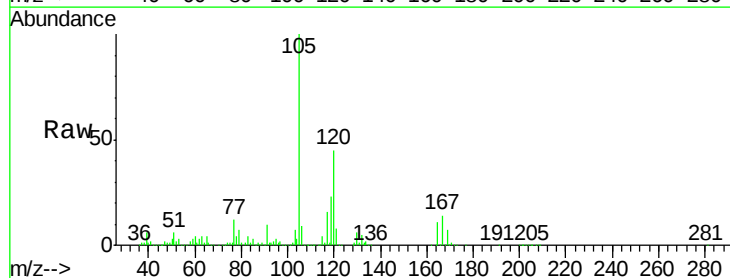
Manual Integrations
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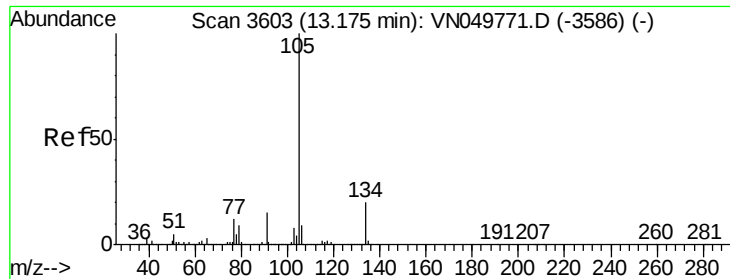
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#84
1,2,4-Trimethylbenzene
Concen: 52.11 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion:105 Resp: 3178529
Ion Ratio Lower Upper
105 100
120 45.6 22.7 68.1





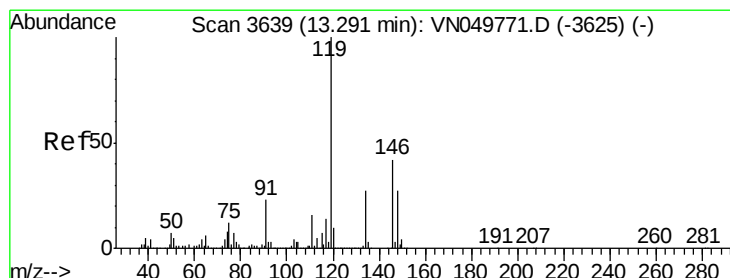
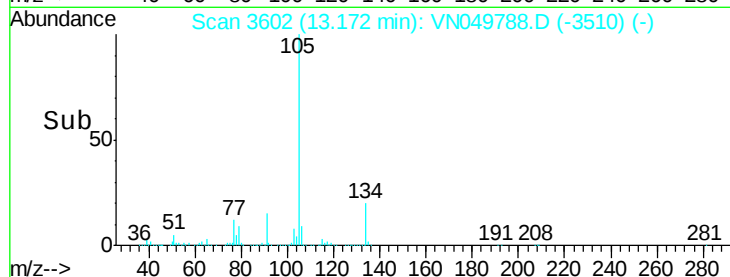
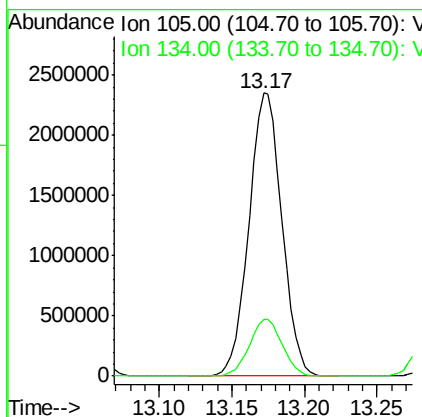
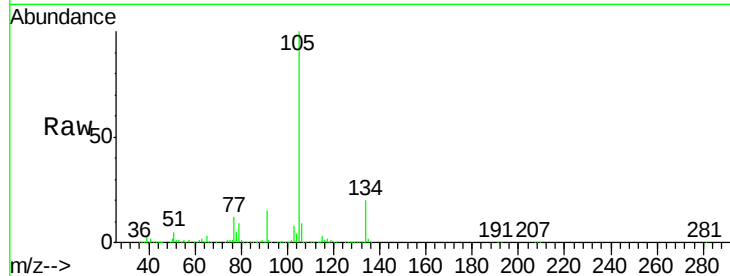
#85
 sec-Butylbenzene
 Concen: 51.99 ug/l
 RT: 13.17 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 3707660
 Ion Ratio Lower Upper
 105 100
 134 20.2 10.1 30.1

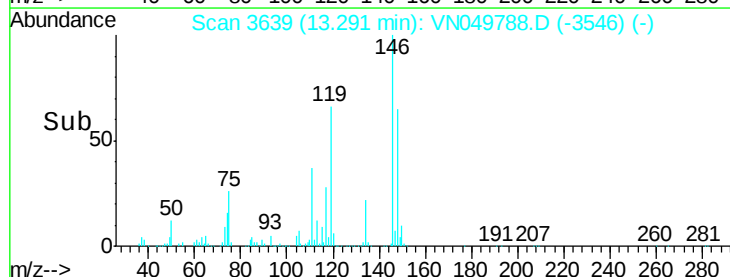
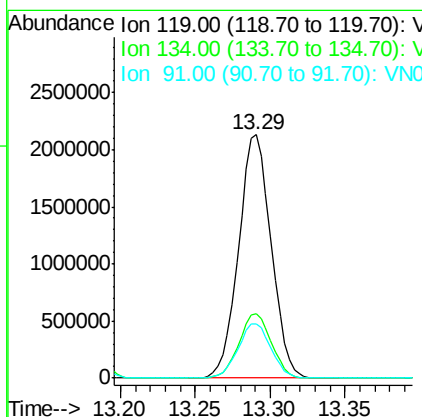
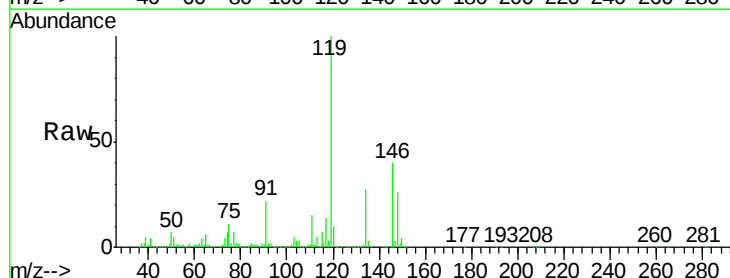
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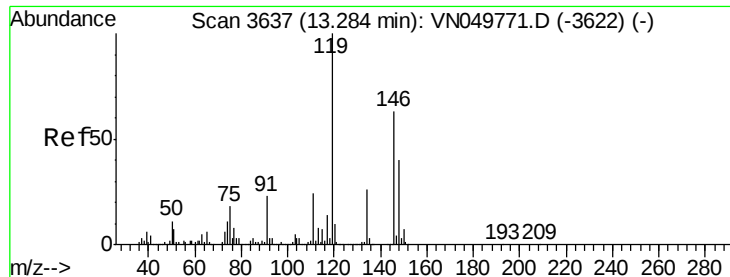
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#86
 p-Isopropyltoluene
 Concen: 53.29 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion:119 Resp: 3216239
 Ion Ratio Lower Upper
 119 100
 134 26.5 13.3 39.9
 91 22.6 11.4 34.1





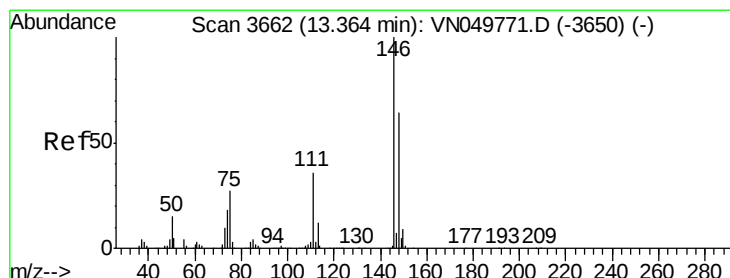
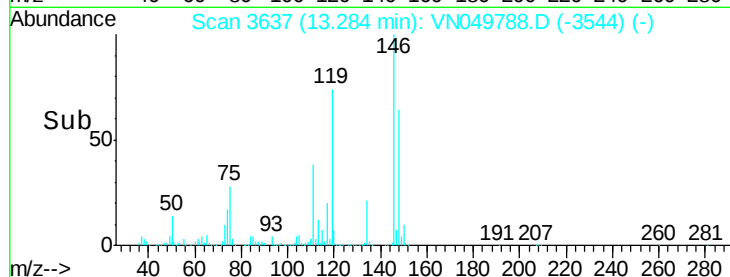
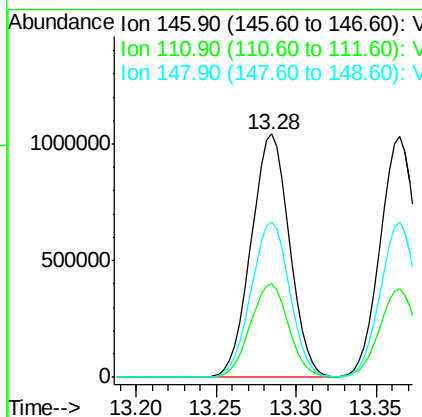
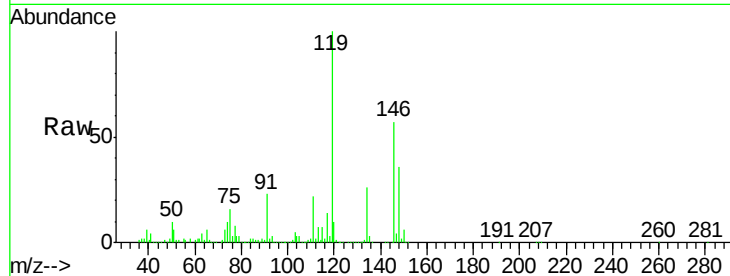
#87
 1,3-Dichlorobenzene
 Concen: 48.72 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 1715186
 Ion Ratio Lower Upper
 146 100
 111 38.3 19.0 57.0
 148 64.4 32.5 97.5

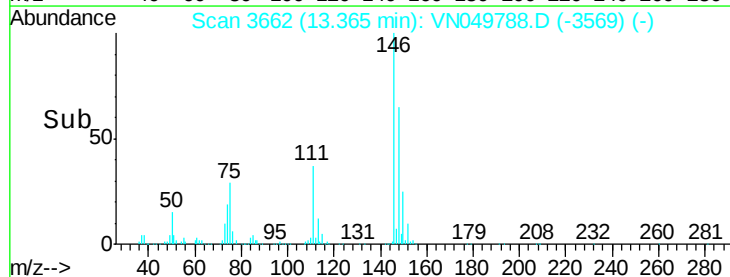
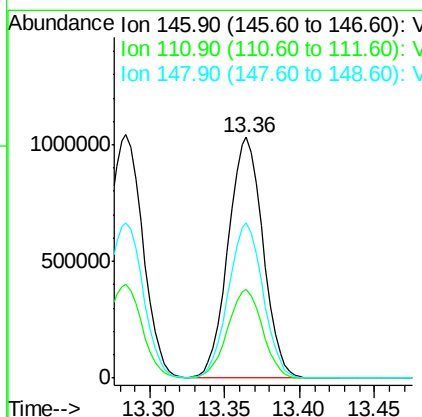
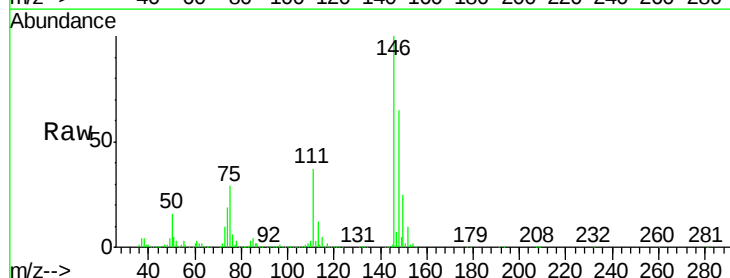
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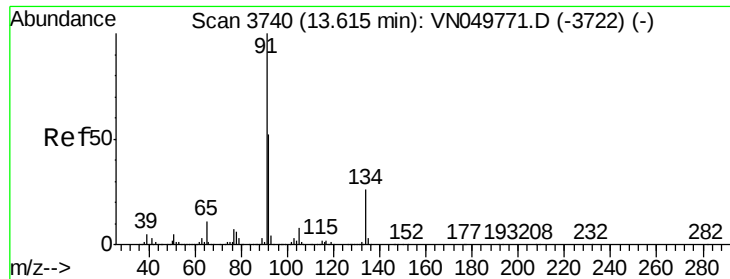
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#88
 1,4-Dichlorobenzene
 Concen: 48.75 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion:146 Resp: 1668290
 Ion Ratio Lower Upper
 146 100
 111 37.1 18.9 56.5
 148 64.5 32.1 96.3





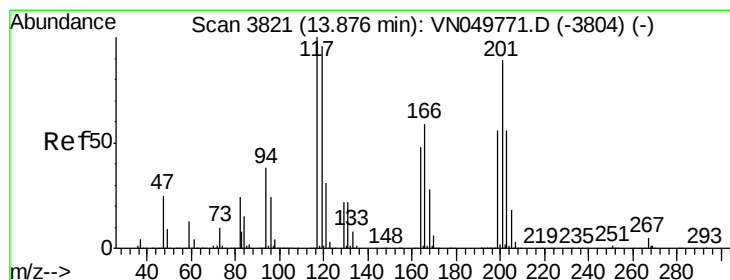
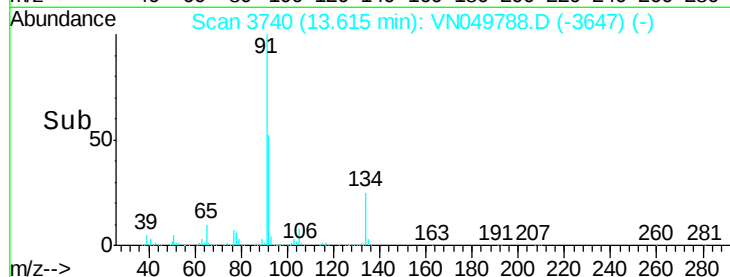
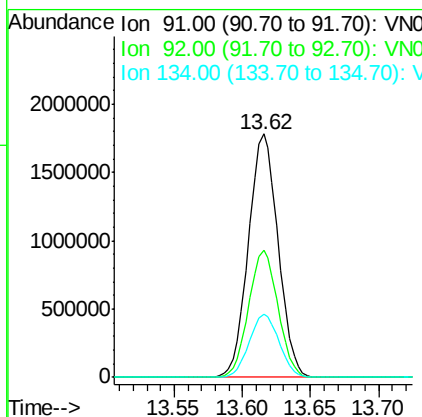
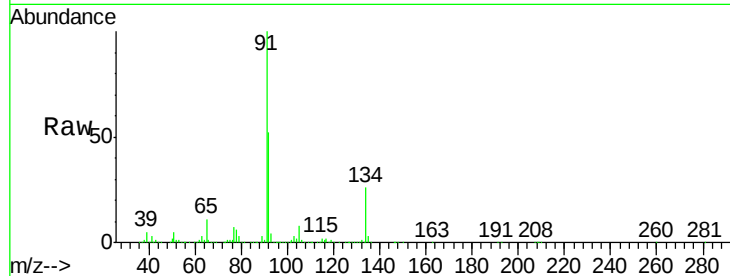
#89
n-Butylbenzene
Concen: 53.93 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.8	77.3
134	26.2	13.0	38.9

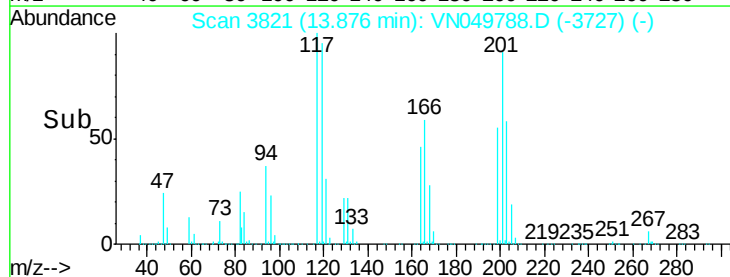
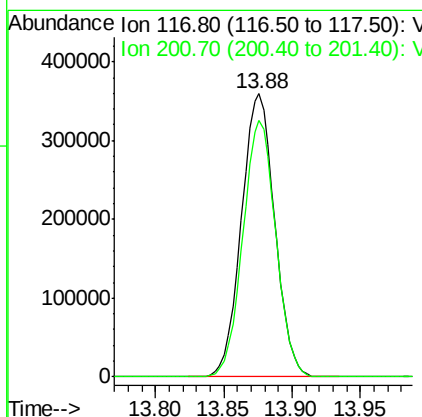
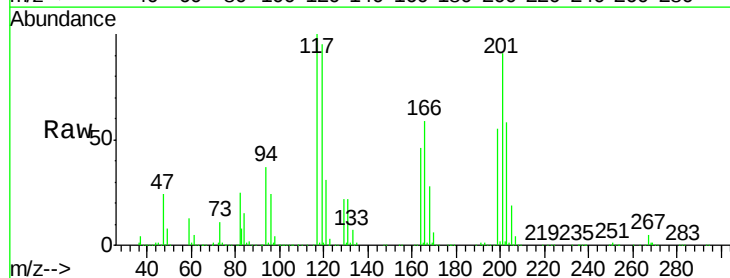
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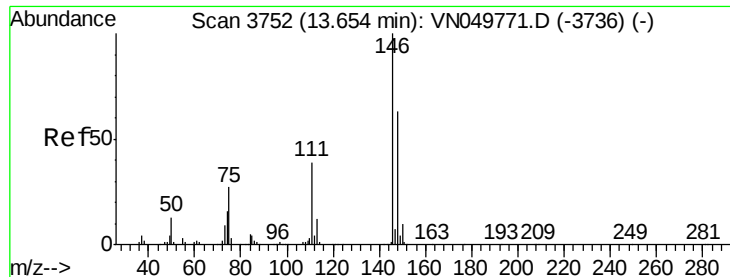
MMDadoda
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#90
Hexachloroethane
Concen: 51.98 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049788.D
Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.7	45.3	135.8





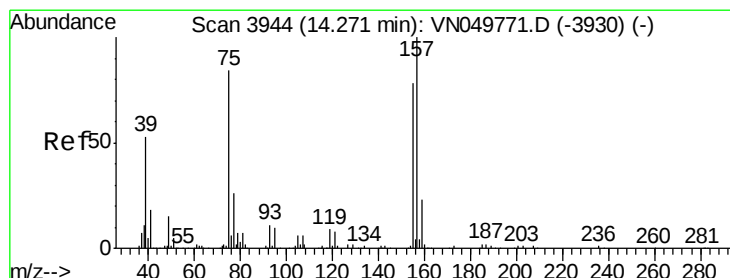
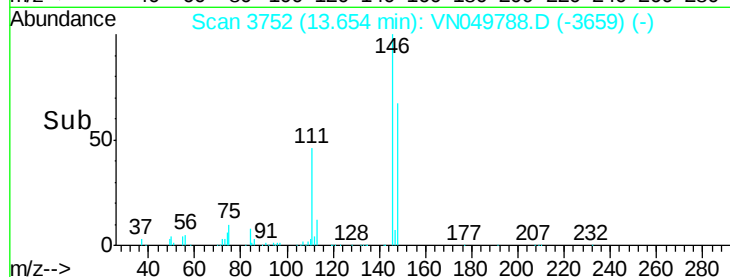
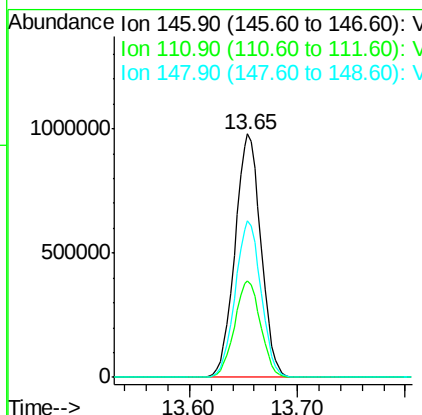
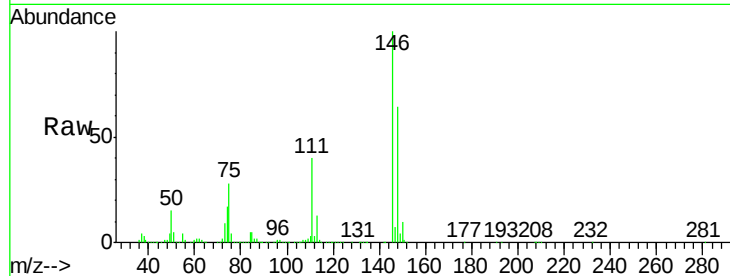
#91
 1,2-Dichlorobenzene
 Concen: 47.72 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.7	59.1
148	64.2	32.0	96.2

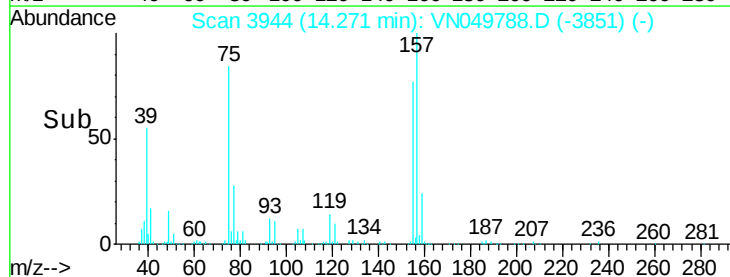
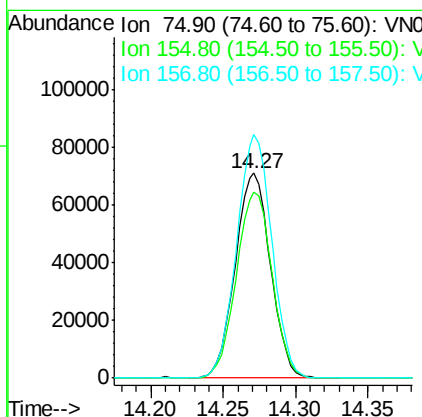
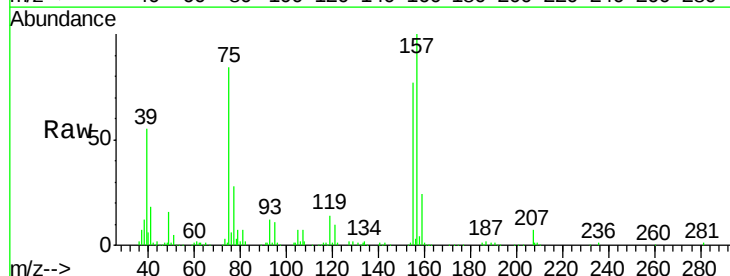
Manual Integrations
 APPROVED

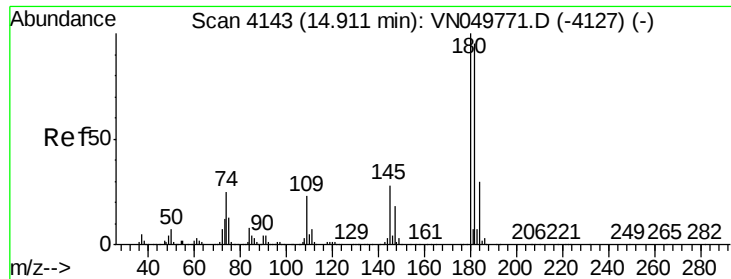
MMDadoda
 7/16/2018 11:02:42 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 44.49 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.9	45.7	137.1
157	118.0	56.9	170.7





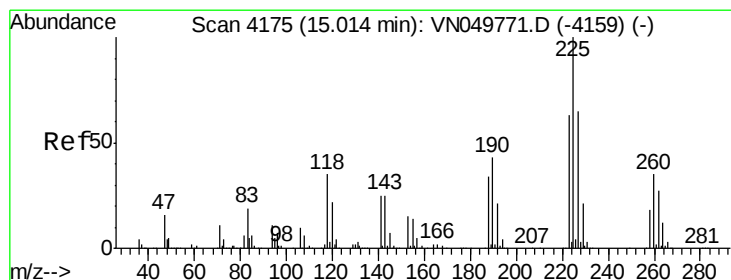
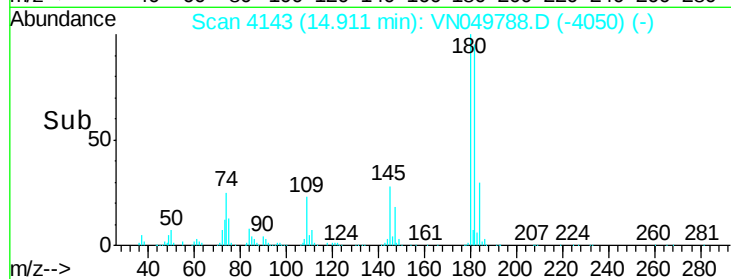
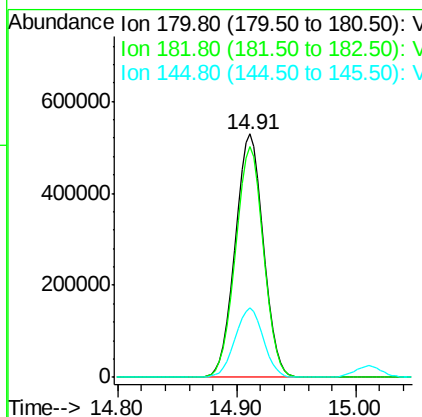
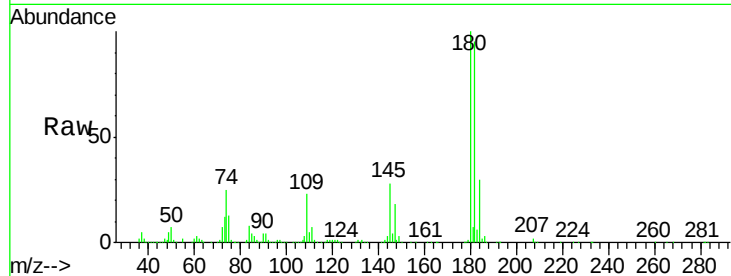
#93
 1,2,4-Trichlorobenzene
 Concen: 46.16 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	866701		
182	94.1	47.3	141.9	
145	28.6	14.4	43.0	

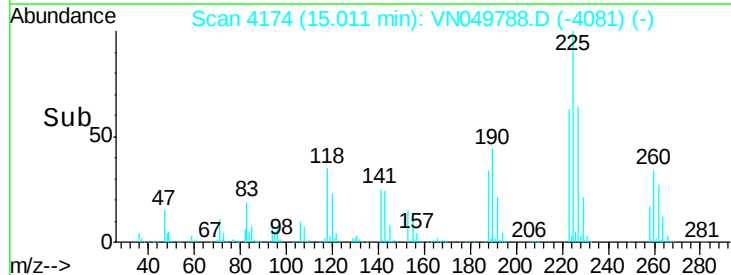
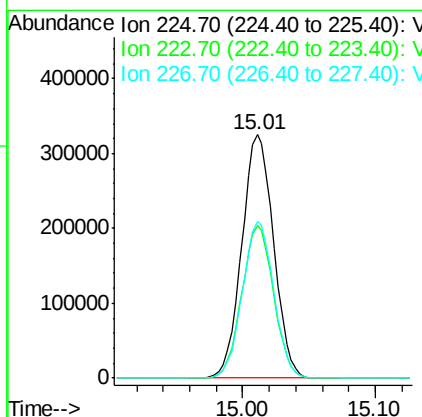
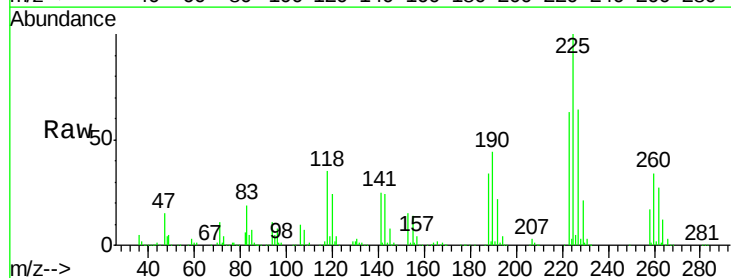
Manual Integrations
 APPROVED

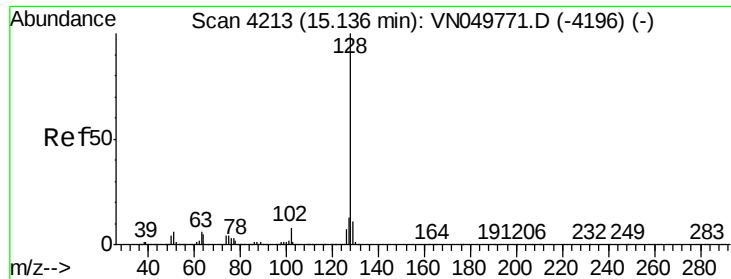
MMDadoda
 7/16/2018 11:02:42 AM



#94
 Hexachlorobutadiene
 Concen: 51.34 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049788.D
 Acq: 13 Jul 2018 10:06

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	539506		
223	62.5	30.9	92.7	
227	63.7	31.8	95.4	





#95

Naphthalene

Concen: 42.06 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:128 Resp: 1684483

Ion Ratio Lower Upper

128 100

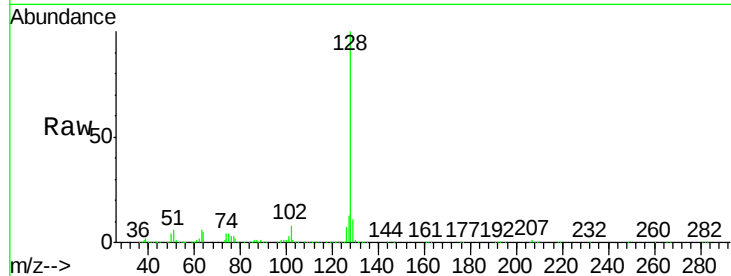
127 13.0 10.4 15.6

129 10.8 8.6 13.0

Manual Integrations
APPROVED

MMDadoda

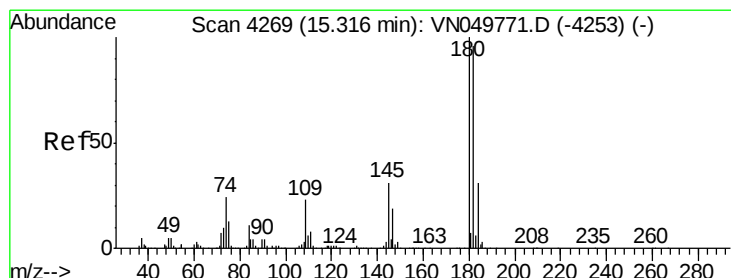
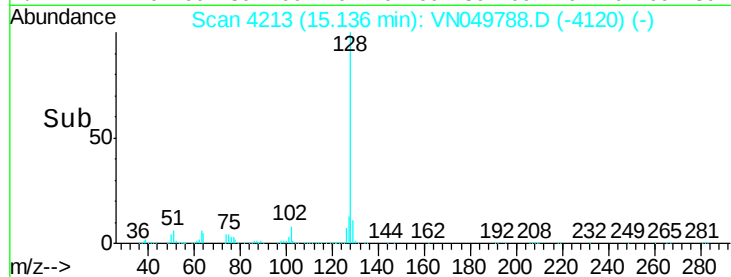
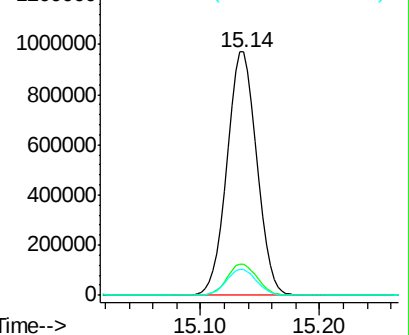
7/16/2018 11:02:42 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 50.53 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN049788.D

Acq: 13 Jul 2018 10:06

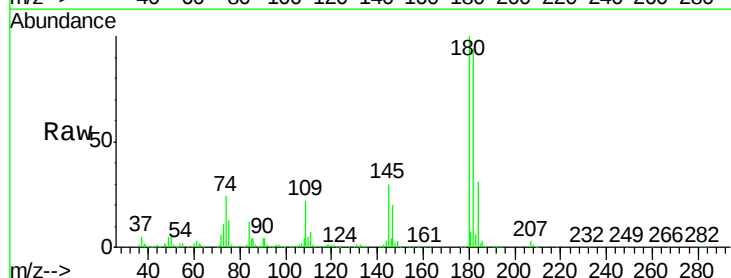
Tgt Ion:180 Resp: 841820

Ion Ratio Lower Upper

180 100

182 94.4 47.4 142.2

145 30.1 15.2 45.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

