

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049867.D
 Acq On : 18 Jul 2018 12:00
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 7/19/2018 4:28:55 PM

Quant Time: Jul 18 12:29:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 12:05:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	666768	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	958119	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	909786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	513076	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	879356	98.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	196.92%	
35) Dibromofluoromethane	7.59	113	790342	104.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	208.00%	
50) Toluene-d8	10.09	98	3005004	107.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	215.38%	
62) 4-Bromofluorobenzene	12.40	95	1085276	116.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	232.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	597079	86.95	ug/l	97
3) Chloromethane	2.06	50	797080	90.20	ug/l	99
4) Vinyl Chloride	2.18	62	873222	91.55	ug/l	100
5) Bromomethane	2.55	94	546266	90.56	ug/l	99
6) Chloroethane	2.69	64	556242	91.89	ug/l	99
7) Trichlorofluoromethane	3.01	101	1174305	91.56	ug/l	97
8) Diethyl Ether	3.41	74	437329	95.43	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	726641	94.41	ug/l	100
10) Methyl Iodide	3.95	142	1114247	115.70	ug/l	99
11) Tert butyl alcohol	4.81	59	325506	458.97	ug/l	100
12) 1,1-Dichloroethene	3.73	96	667222	95.93	ug/l	99
13) Acrolein	3.61	56	229372	417.12	ug/l	98
14) Allyl chloride	4.32	41	1128982	102.24	ug/l	100
15) Acrylonitrile	4.99	53	1456461	488.17	ug/l	98
16) Acetone	3.82	43	1060276	426.26	ug/l	100
17) Carbon Disulfide	4.05	76	1945589	91.90	ug/l	99
18) Methyl Acetate	4.33	43	733146	78.76	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	2061264	106.11	ug/l	100
20) Methylene Chloride	4.55	84	785122	91.65	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	731170	99.44	ug/l	100
22) Diisopropyl ether	5.96	45	2420403	109.64	ug/l	96
23) Vinyl Acetate	5.90	43	8762238	539.65	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1387721	98.08	ug/l	99
25) 2-Butanone	6.84	43	1736592	472.36	ug/l	99
26) 2,2-Dichloropropane	6.82	77	1113191	103.35	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	847414	102.81	ug/l	99
28) Bromochloromethane	7.20	49	677737	103.19	ug/l	99
29) Tetrahydrofuran	7.21	42	1132743	484.58	ug/l	100
30) Chloroform	7.37	83	1417196	97.03	ug/l	99
31) Cyclohexane	7.65	56	1206728	89.69	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	1232644	99.36	ug/l	99
36) 1,1-Dichloropropene	7.79	75	1086930	107.22	ug/l	100
37) Ethyl Acetate	6.93	43	755582	99.94	ug/l	100
38) Carbon Tetrachloride	7.77	117	1100143	103.01	ug/l	100

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1186492	113.64	ug/l	99
40) Benzene	8.04	78	3249076	105.73	ug/l	100
41) Methacrylonitrile	7.18	41	416052	107.17	ug/l	97
42) 1,2-Dichloroethane	8.12	62	1040207	99.54	ug/l	100
43) Isopropyl Acetate	8.17	43	1349965	104.94	ug/l	96
44) Trichloroethene	8.83	130	844404	104.45	ug/l	100
45) 1,2-Dichloropropane	9.12	63	854963	104.43	ug/l	100
46) Dibromomethane	9.21	93	529462	101.36	ug/l	99
47) Bromodichloromethane	9.40	83	1130176	106.47	ug/l	98
48) Methyl methacrylate	9.20	41	679825	106.58	ug/l	99
49) 1,4-Dioxane	9.20	88	196841	2035.73	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	3953404	522.49	ug/l	99
52) Toluene	10.16	92	2052845	111.47	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	1205946	116.36	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	1332138	114.53	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	779496	103.15	ug/l	99
56) Ethyl methacrylate	10.43	69	1097101	119.86	ug/l	99
57) 1,3-Dichloropropane	10.71	76	1296597	105.92	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	2564835	593.64	ug/l	99
59) 2-Hexanone	10.75	43	2734823	527.17	ug/l	100
60) Dibromochloromethane	10.90	129	898860	106.82	ug/l	99
61) 1,2-Dibromoethane	11.01	107	787303	106.29	ug/l	100
64) Tetrachloroethene	10.63	164	773736	100.00	ug/l	99
65) Chlorobenzene	11.44	112	2272781	105.36	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	856980	103.49	ug/l	99
67) Ethyl Benzene	11.51	91	4014657	115.78	ug/l	99
68) m/p-Xylenes	11.62	106	3070178	233.38	ug/l	100
69) o-Xylene	11.95	106	1486088	118.47	ug/l	98
70) Styrene	11.96	104	2514555	123.66	ug/l	100
71) Bromoform	12.13	173	670356	105.10	ug/l #	99
73) Isopropylbenzene	12.25	105	3983490	107.22	ug/l	100
74) N-amyl acetate	12.07	43	1267637	103.26	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.51	83	1051182	88.22	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	916682m	91.31	ug/l	
77) Bromobenzene	12.53	156	1037117	101.83	ug/l	98
78) n-propylbenzene	12.59	91	4611672	110.31	ug/l	100
79) 2-Chlorotoluene	12.68	91	2718248	105.31	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	3279322	112.63	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	324650	105.84	ug/l	98
82) 4-Chlorotoluene	12.78	91	2801503	109.86	ug/l	100
83) tert-Butylbenzene	12.99	119	2851429	111.74	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	3348602	112.79	ug/l	100
85) sec-Butylbenzene	13.17	105	3817663	111.20	ug/l	100
86) p-Isopropyltoluene	13.29	119	3365225	115.94	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1847251	105.53	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1808892	105.20	ug/l	99
89) n-Butylbenzene	13.62	91	2876170	120.82	ug/l	99
90) Hexachloroethane	13.88	117	628860	96.46	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	1779579	99.97	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	172443	86.34	ug/l	99

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ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
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Quant Title : SW846 8260
QLast Update : Wed Jul 18 12:05:28 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	1027987	129.69	ug/l	99
94) Hexachlorobutadiene	15.01	225	547228	98.42	ug/l	100
95) Naphthalene	15.14	128	2499382	132.11	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	1008263	120.30	ug/l	99

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

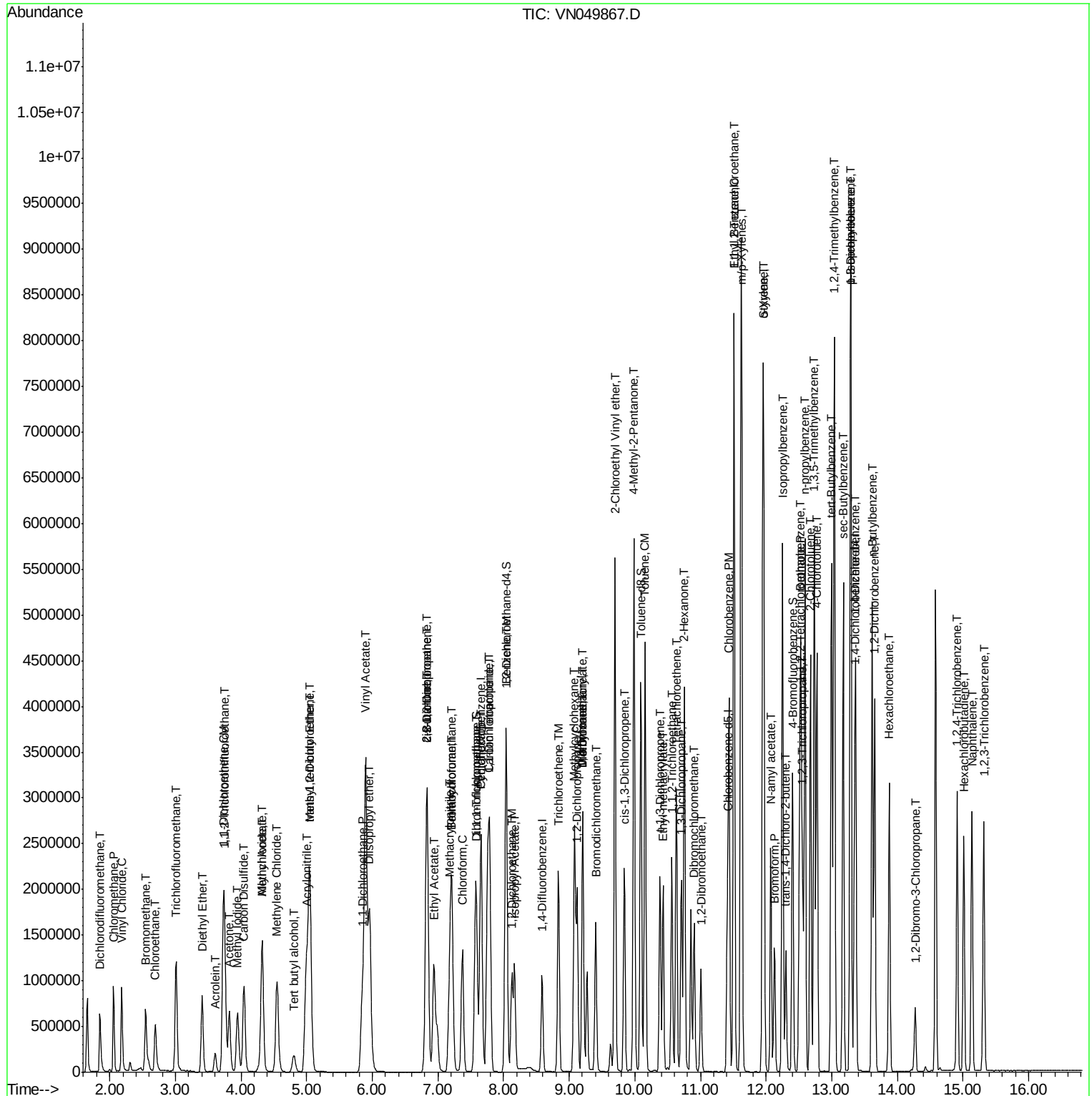
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Data File : VN049867.D
Acq On : 18 Jul 2018 12:00
Operator : MD\SY
Sample : VSTDICC100
Misc : 5.00mL/MSVOA N/WATER
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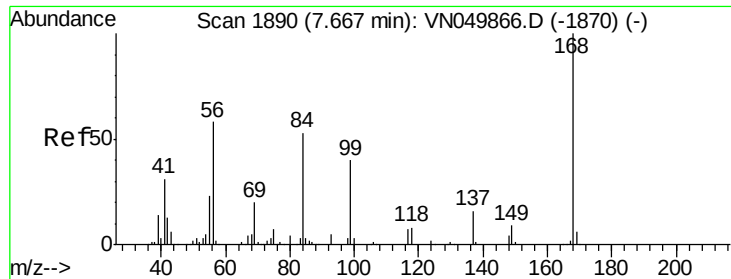
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 666768

Ion Ratio Lower Upper

168 100

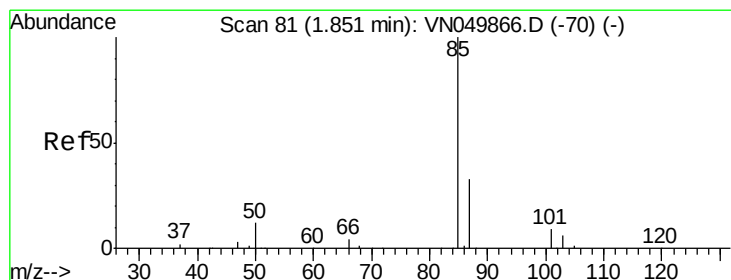
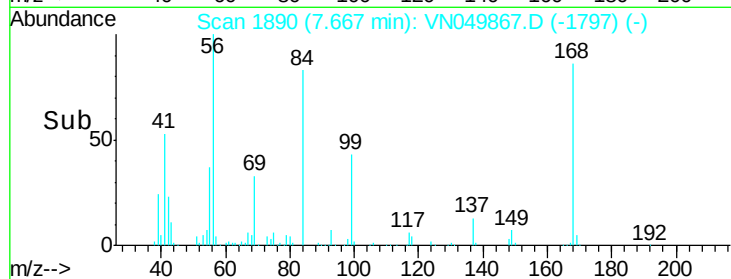
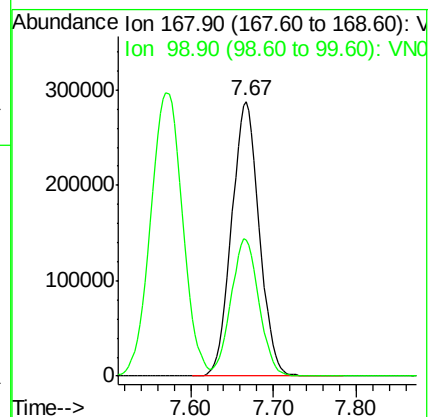
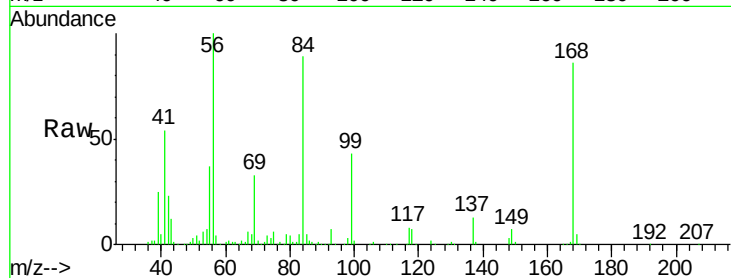
99 49.6 40.6 61.0

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 86.95 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN049867.D

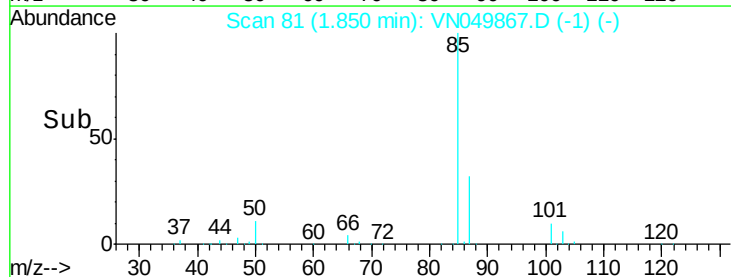
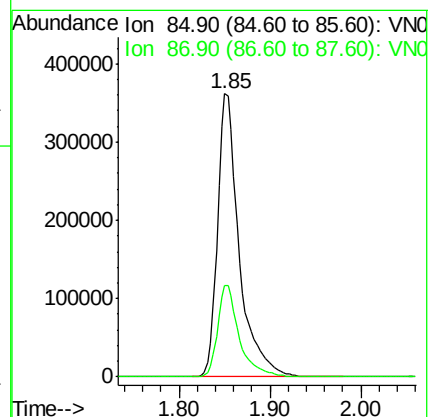
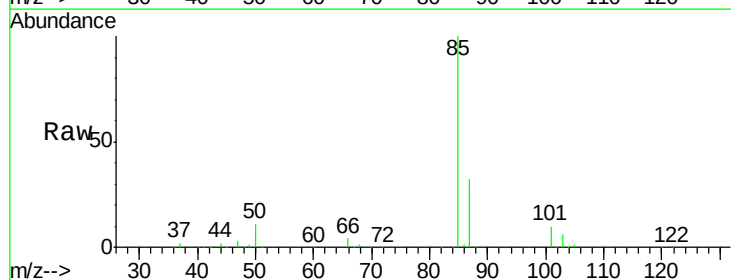
Acq: 18 Jul 2018 12:00

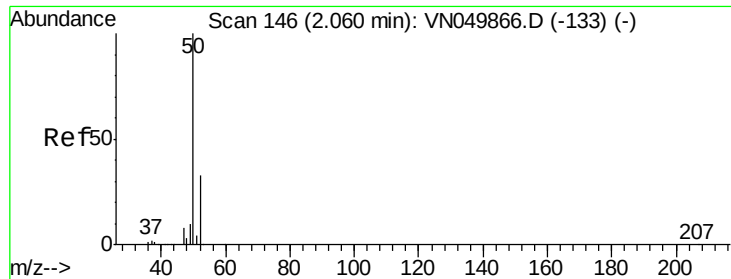
Tgt Ion: 85 Resp: 597079

Ion Ratio Lower Upper

85 100

87 32.1 15.4 46.1





#3

Chloromethane

Concen: 90.20 ug/l

RT: 2.06 min Scan# 146

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 797080

Ion Ratio Lower Upper

50 100

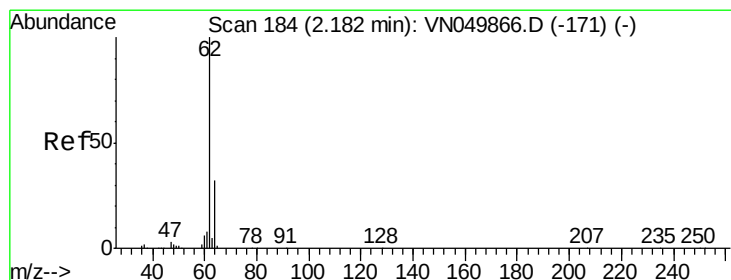
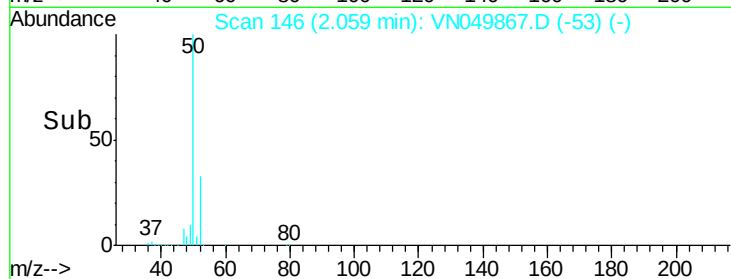
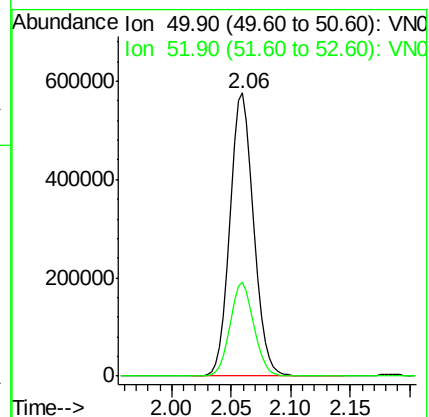
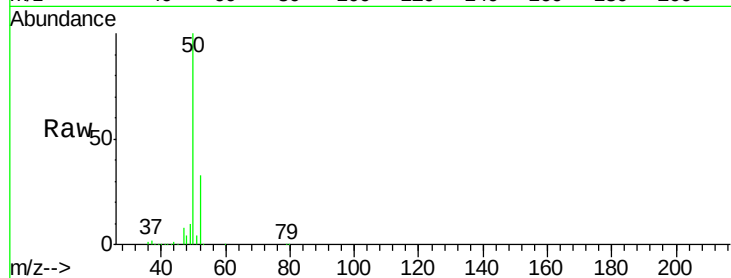
52 33.0 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 91.55 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN049867.D

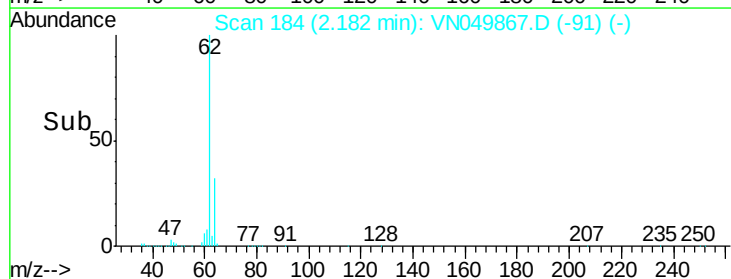
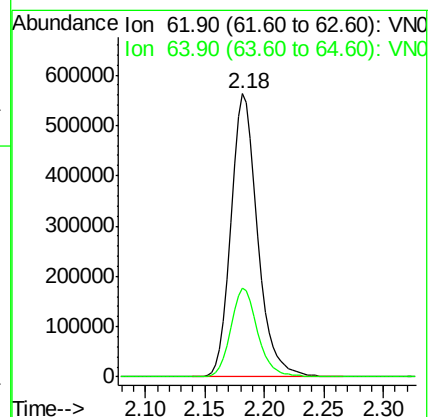
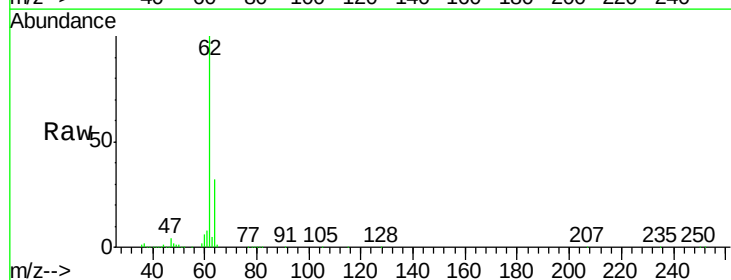
Acq: 18 Jul 2018 12:00

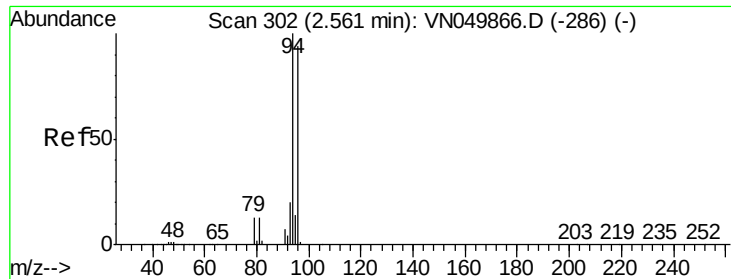
Tgt Ion: 62 Resp: 873222

Ion Ratio Lower Upper

62 100

64 31.5 25.4 38.0





#5

Bromomethane

Concen: 90.56 ug/l

RT: 2.55 min Scan# 298

Delta R.T. -0.01 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 94 Resp: 546266

Ion Ratio Lower Upper

94 100

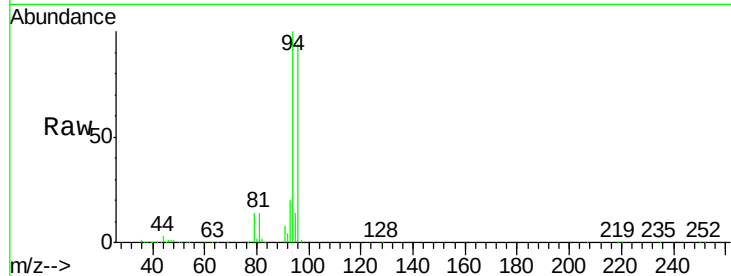
96 93.8 75.7 113.5

Manual Integrations

APPROVED

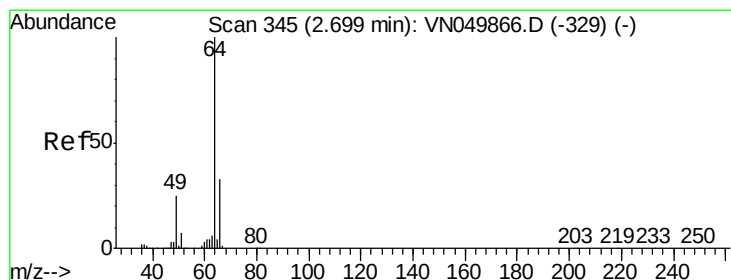
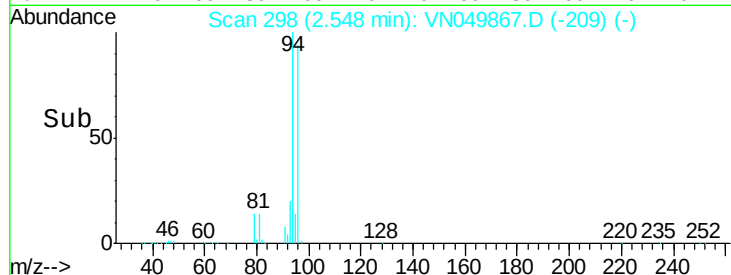
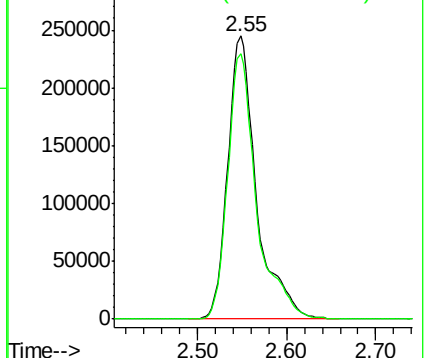
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 91.89 ug/l

RT: 2.69 min Scan# 343

Delta R.T. -0.01 min

Lab File: VN049867.D

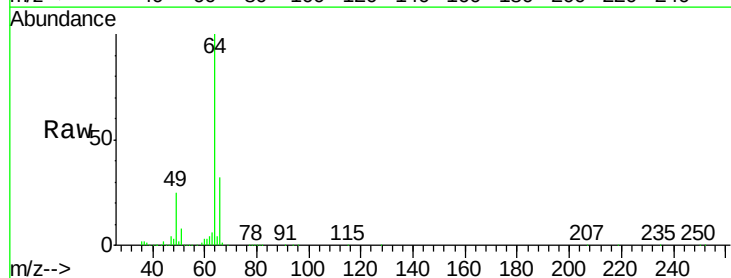
Acq: 18 Jul 2018 12:00

Tgt Ion: 64 Resp: 556242

Ion Ratio Lower Upper

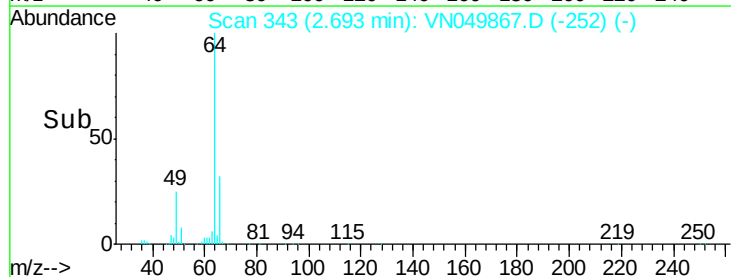
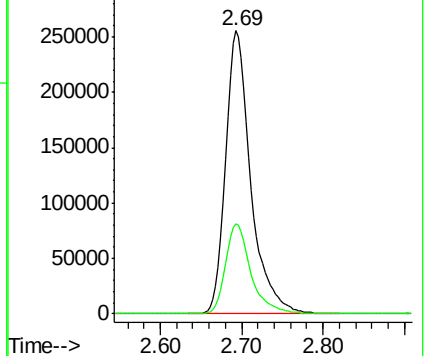
64 100

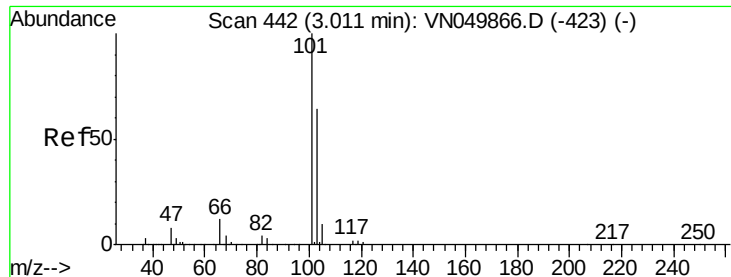
66 31.7 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

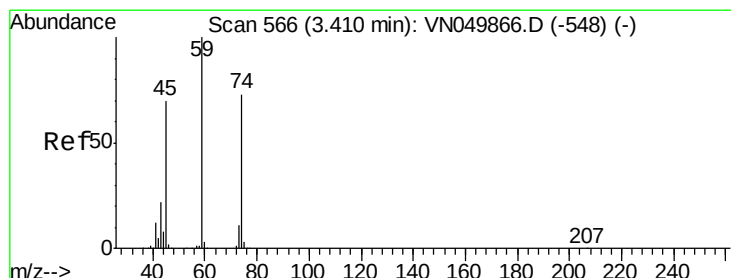
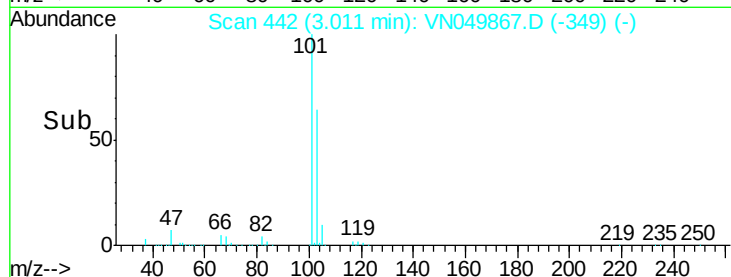
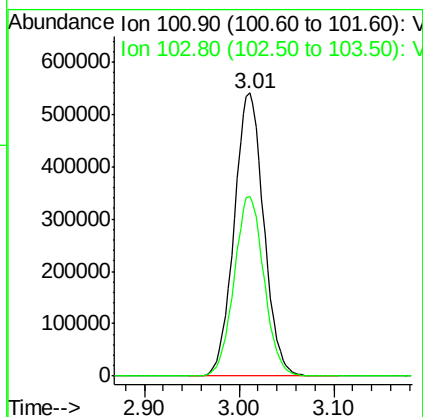
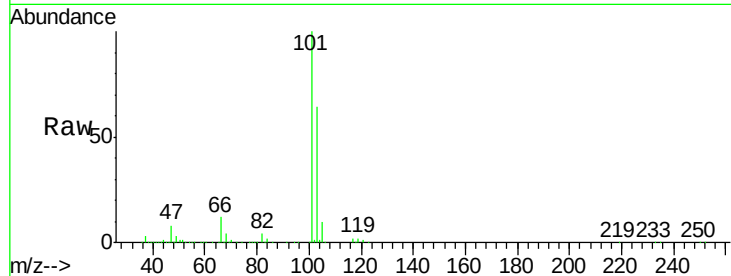
Trichlorofluoromethane
Concen: 91.56 ug/l
RT: 3.01 min Scan# 442
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:101 Resp: 1174305
Ion Ratio Lower Upper
101 100
103 63.7 52.8 79.2

Manual Integrations
APPROVED

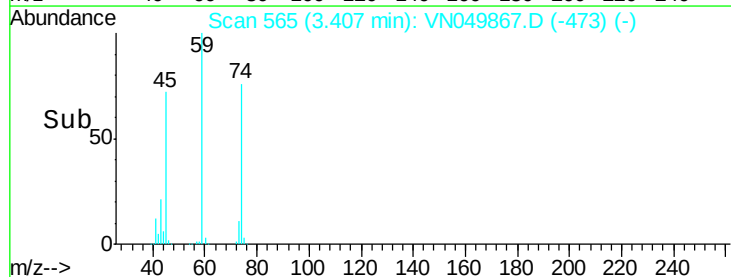
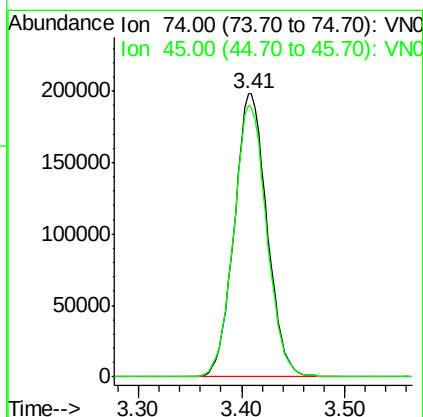
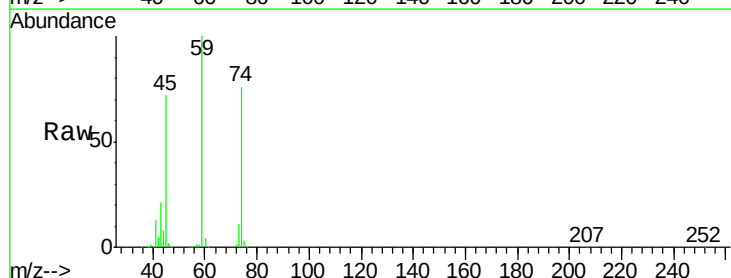
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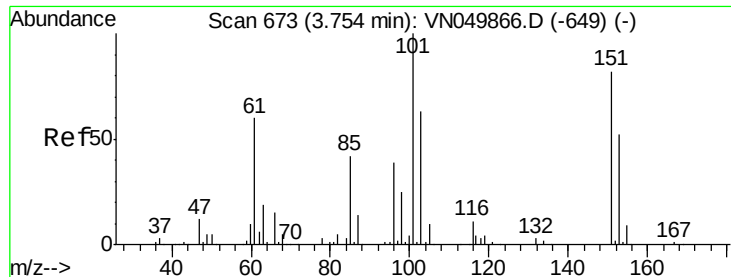


#8

Diethyl Ether
Concen: 95.43 ug/l
RT: 3.41 min Scan# 565
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion: 74 Resp: 437329
Ion Ratio Lower Upper
74 100
45 96.2 48.4 145.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 94.41 ug/l

RT: 3.75 min Scan# 672

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

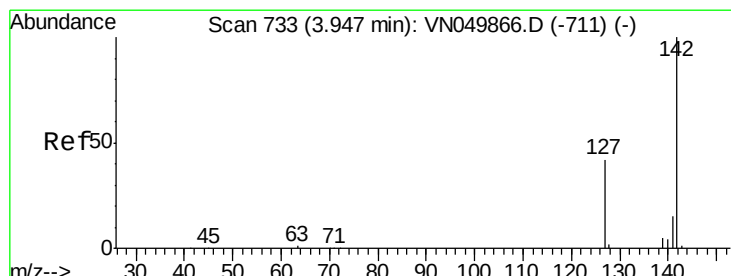
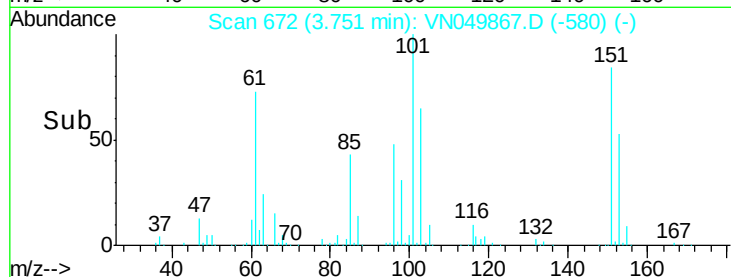
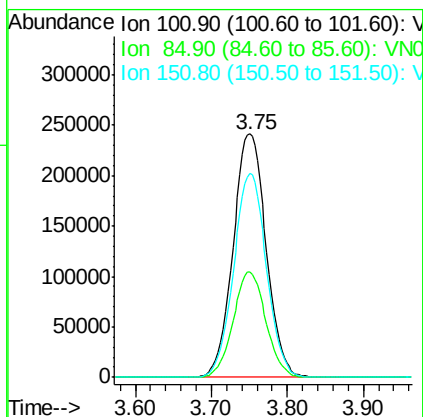
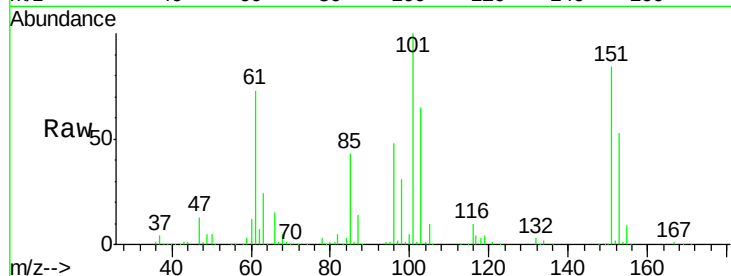
ClientSampleId :

VSTDIC100

Tot Ion:	101	Resp:	726641
Ion Ratio	Lower	Upper	
101	100		
85	42.8	34.4	51.6
151	83.2	66.2	99.4

Manual Integrations
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MMDadoda
7/19/2018 4:28:55 PM



#10

Methyl Iodide

Concen: 115.70 ug/l

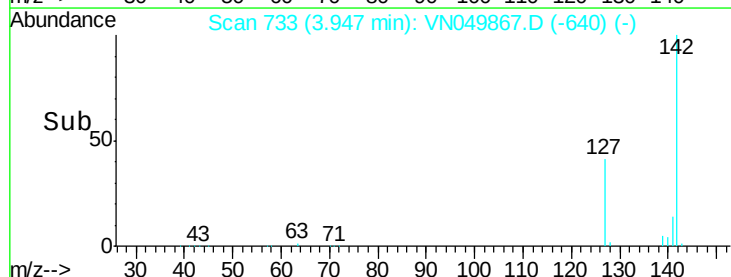
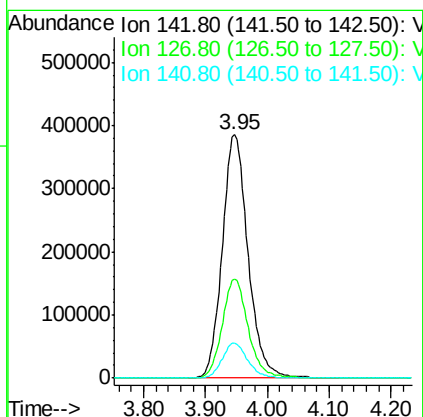
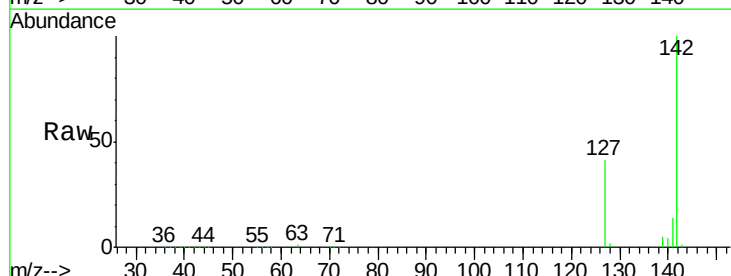
RT: 3.95 min Scan# 733

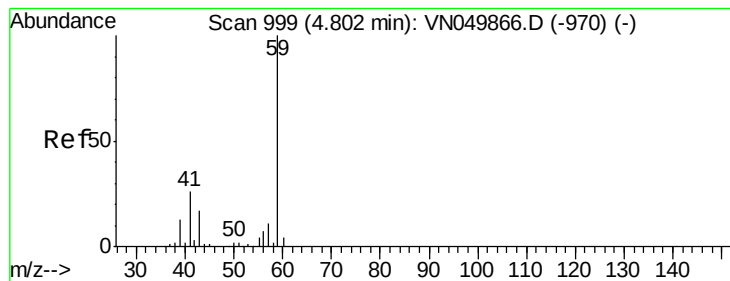
Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Tgt Ion:	142	Resp:	1114247
Ion Ratio	Lower	Upper	
142	100		
127	41.1	32.5	48.7
141	14.4	11.1	16.7





#11

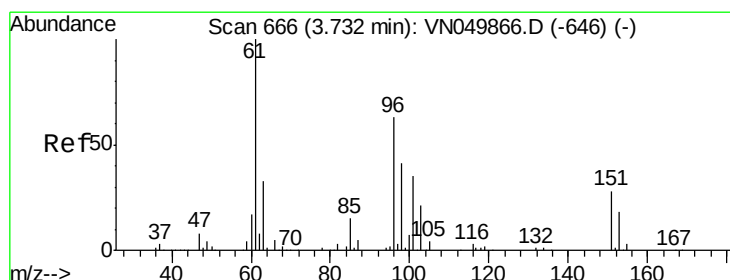
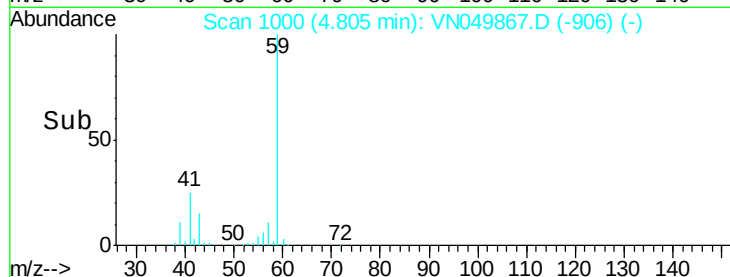
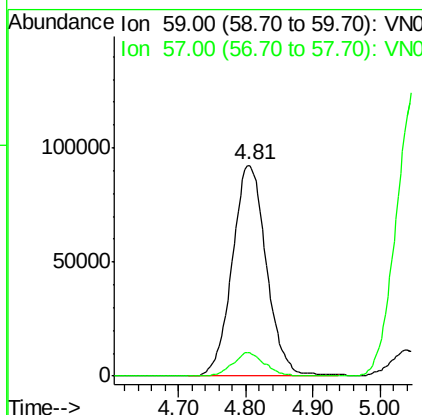
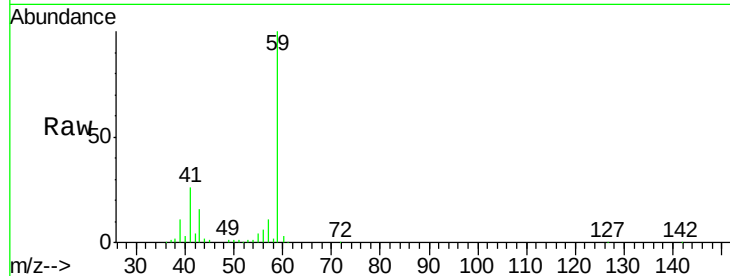
Tert butyl alcohol
 Concen: 458.97 ug/l
 RT: 4.81 min Scan# 1000
 Delta R.T. 0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.5	12.7

Manual Integrations
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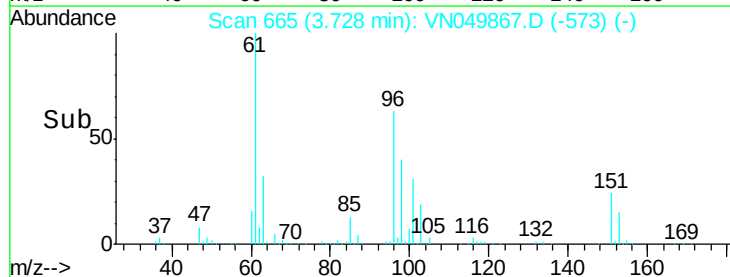
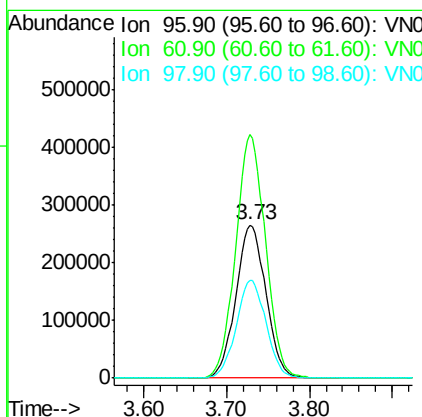
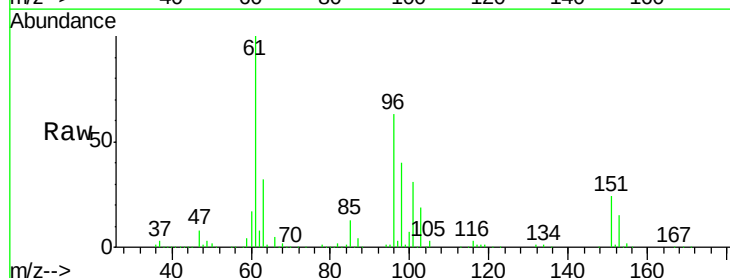
MMDadoda
 7/19/2018 4:28:55 PM

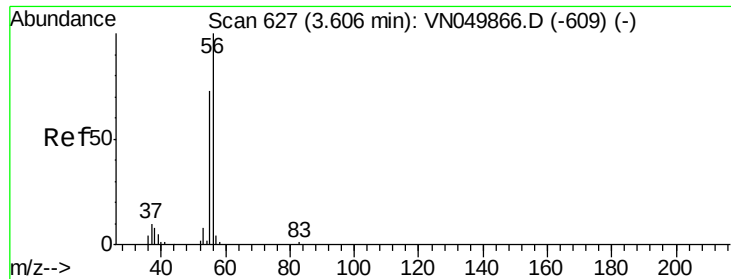


#12

1,1-Dichloroethene
 Concen: 95.93 ug/l
 RT: 3.73 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.4	126.5	189.7
98	63.9	51.0	76.6





#13

Acrolein

Concen: 417.12 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 56 Resp: 229372

Ion Ratio Lower Upper

56 100

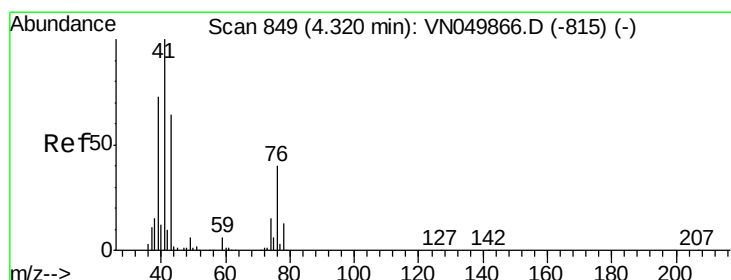
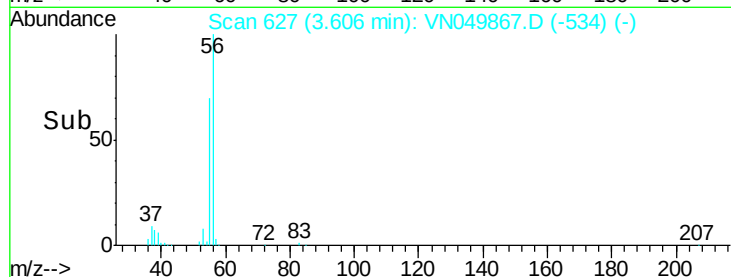
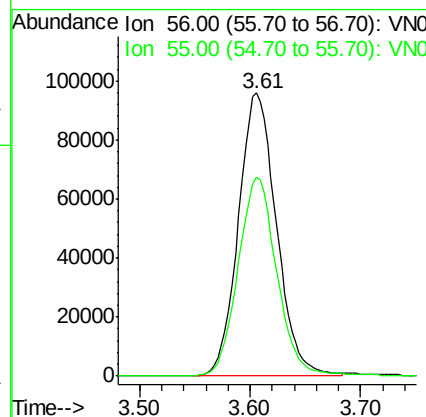
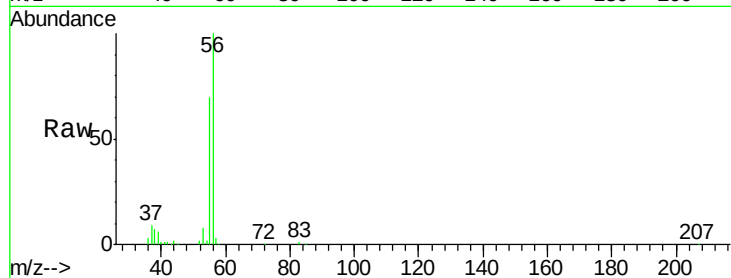
55 71.6 55.8 83.8

Manual Integrations

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#14

Allyl chloride

Concen: 102.24 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

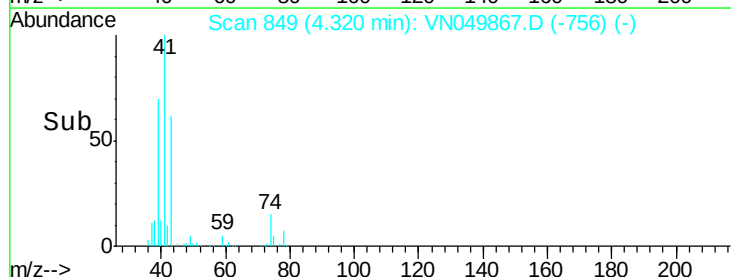
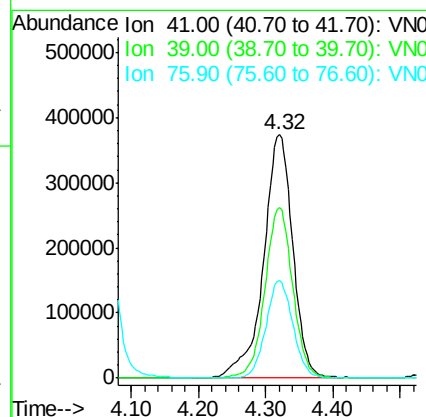
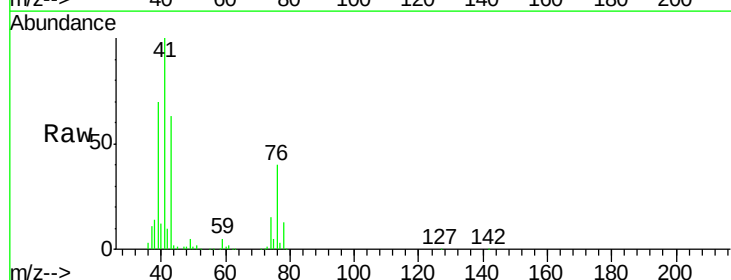
Tgt Ion: 41 Resp: 1128982

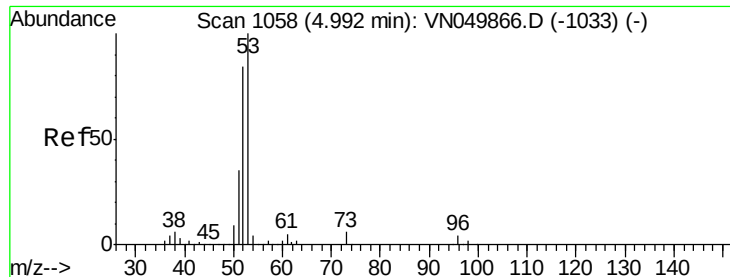
Ion Ratio Lower Upper

41 100

39 66.5 53.2 79.8

76 36.6 29.0 43.6





#15

Acrylonitrile

Concen: 488.17 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 53 Resp: 1456461

Ion Ratio Lower Upper

53 100

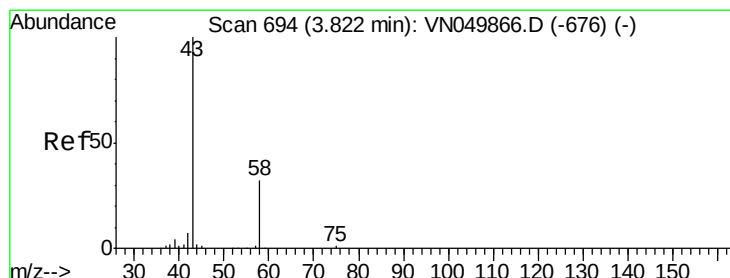
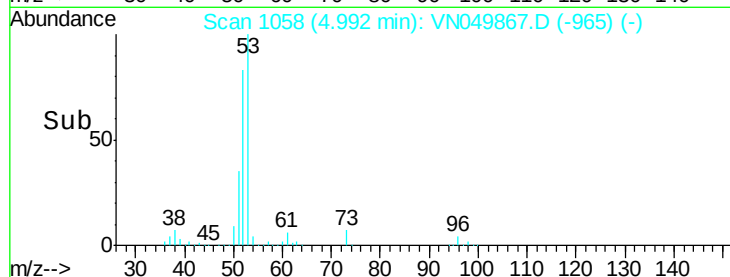
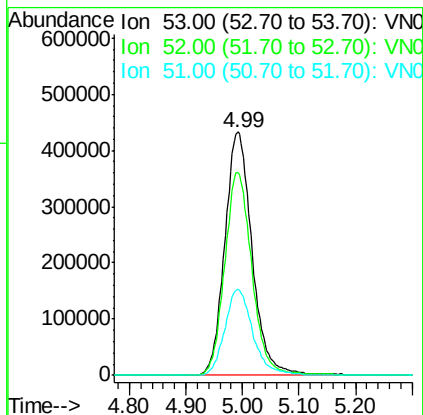
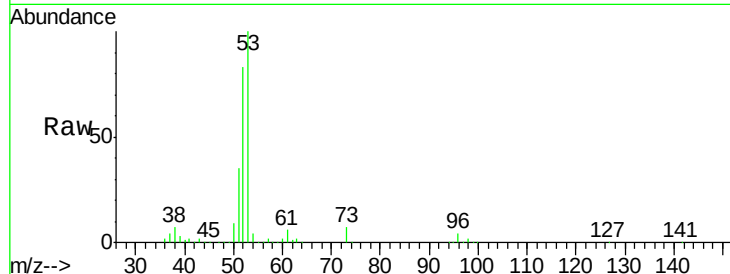
52 82.7 64.8 97.2

51 36.5 28.9 43.3

Manual Integrations
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#16

Acetone

Concen: 426.26 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN049867.D

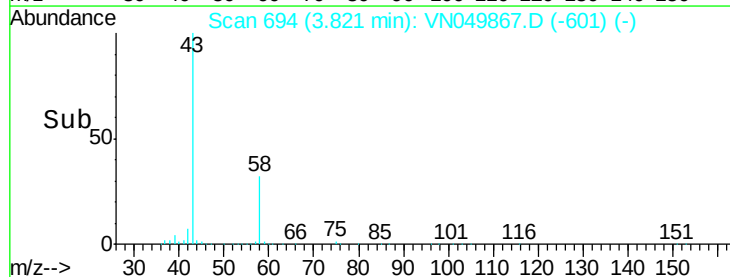
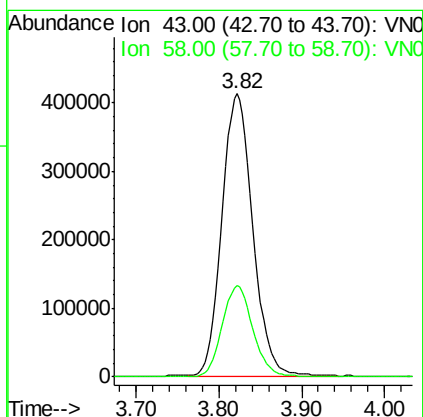
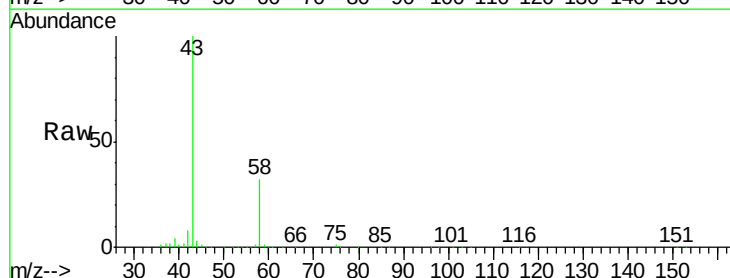
Acq: 18 Jul 2018 12:00

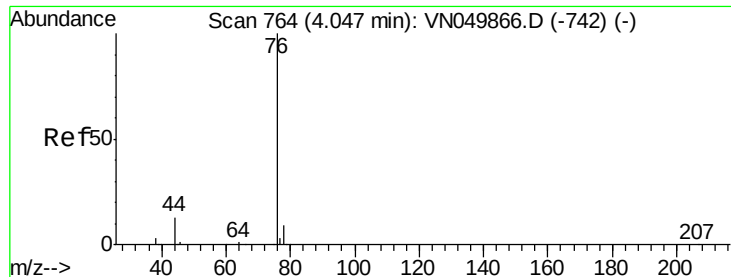
Tgt Ion: 43 Resp: 1060276

Ion Ratio Lower Upper

43 100

58 32.2 25.9 38.9





#17

Carbon Disulfide

Concen: 91.90 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 1945589

Ion Ratio Lower Upper

76 100

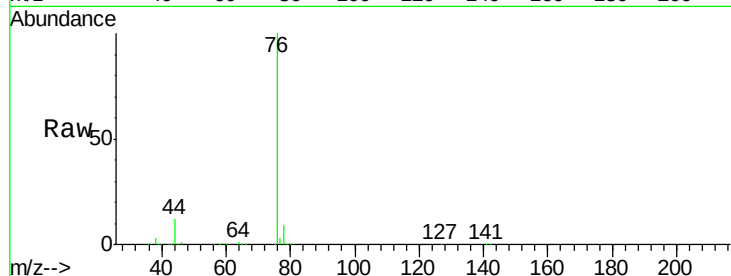
78 9.2 7.1 10.7

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

800000

600000

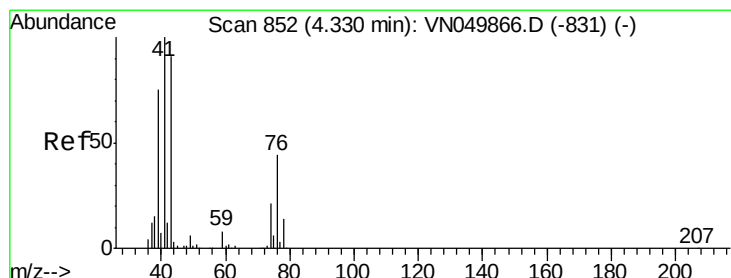
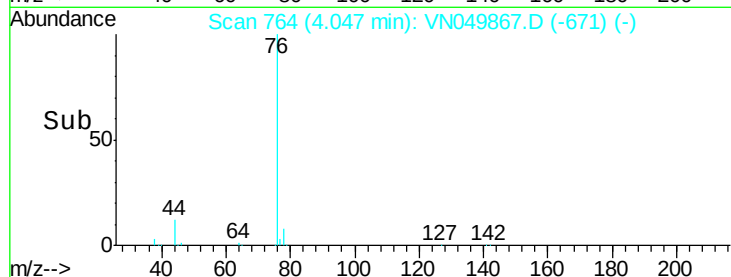
400000

200000

0

4.00 4.20

Time-->



#18

Methyl Acetate

Concen: 78.76 ug/l

RT: 4.33 min Scan# 851

Delta R.T. -0.00 min

Lab File: VN049867.D

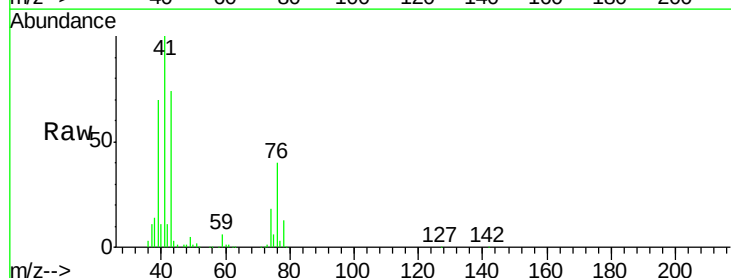
Acq: 18 Jul 2018 12:00

Tgt Ion: 43 Resp: 733146

Ion Ratio Lower Upper

43 100

74 24.7 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

300000

250000

200000

150000

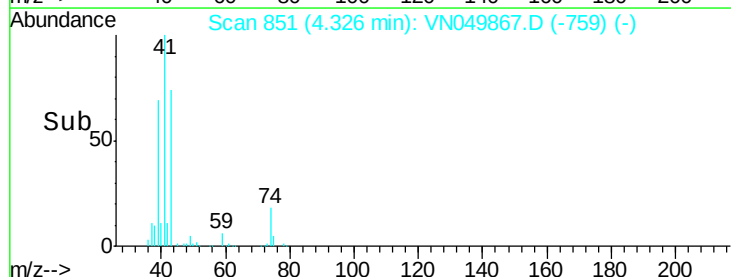
100000

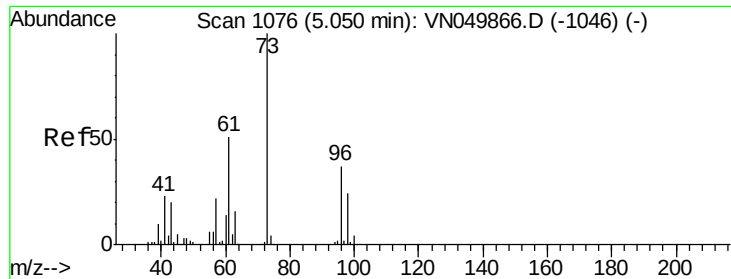
50000

0

4.20 4.30 4.40 4.50

Time-->





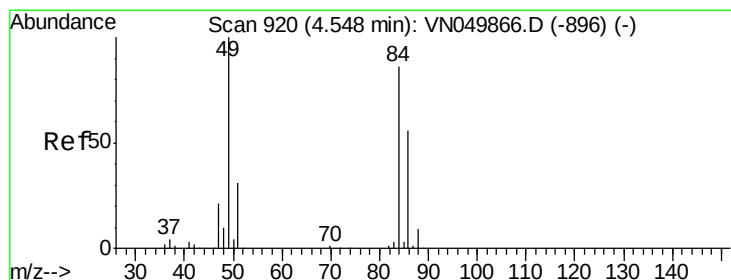
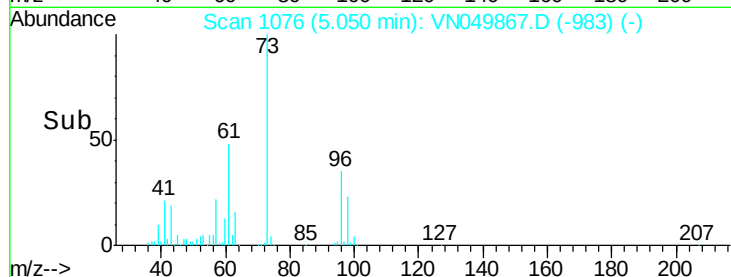
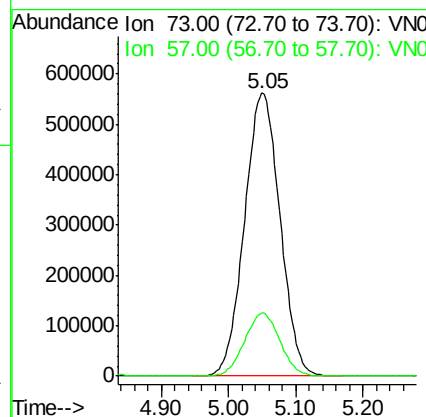
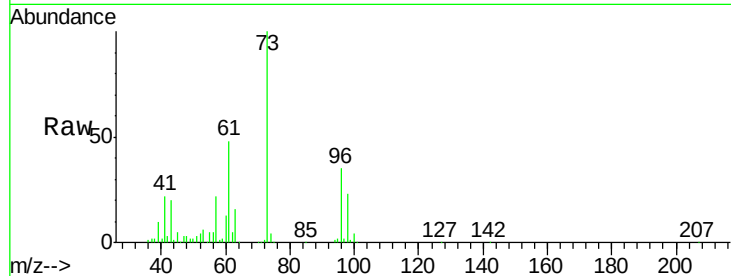
#19
Methvl tert-butvl Ether
Concen: 106.11 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 73 Resp: 2061264
Ion Ratio Lower Upper
73 100
57 22.5 18.1 27.1

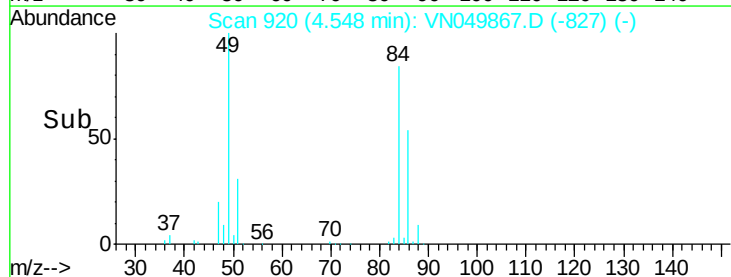
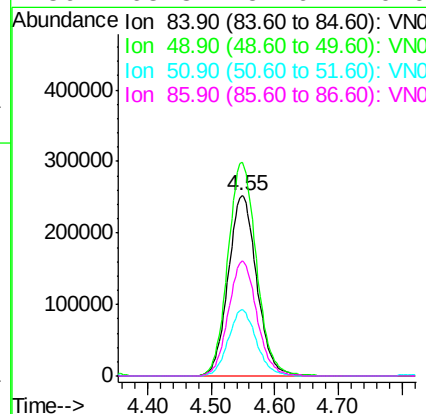
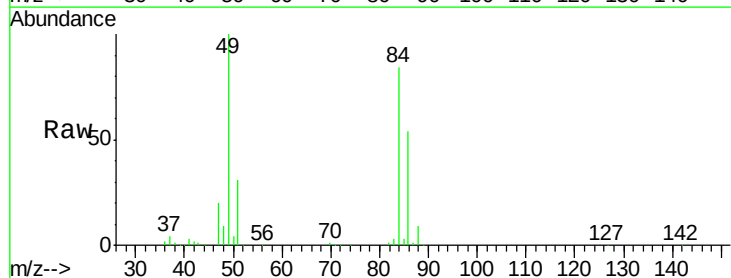
Manual Integrations
APPROVED

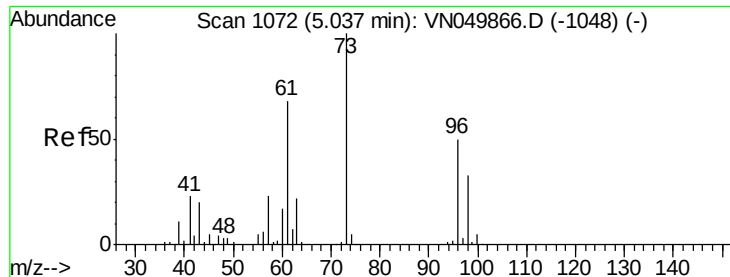
MMDadoda
7/19/2018 4:28:55 PM



#20
Methylene Chloride
Concen: 91.65 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion: 84 Resp: 785122
Ion Ratio Lower Upper
84 100
49 118.4 95.4 143.2
51 36.8 28.4 42.6
86 63.8 52.6 79.0





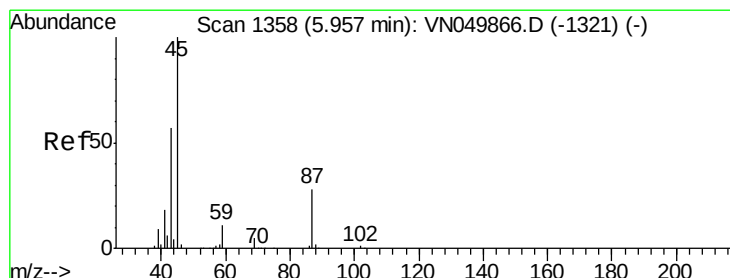
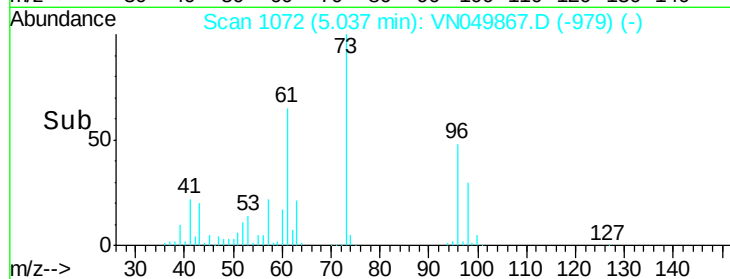
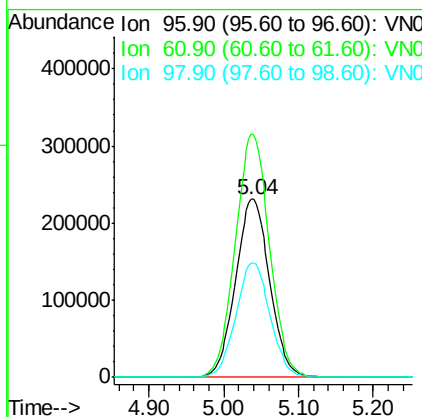
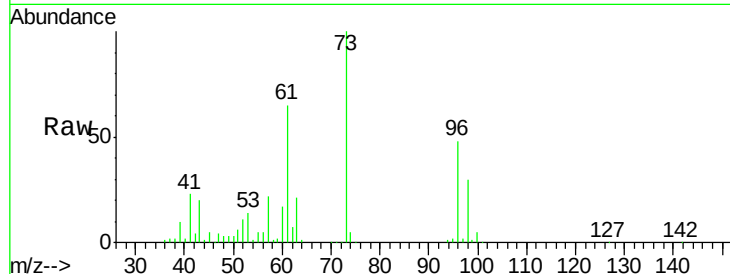
#21
trans-1,2-Dichloroethene
Concen: 99.44 ug/l
RT: 5.04 min Scan# 1072
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.7	109.0	163.6
98	64.0	51.1	76.7

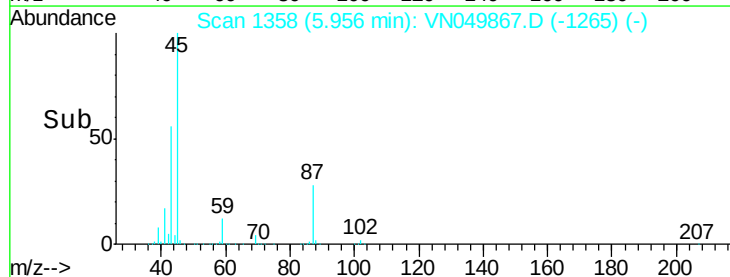
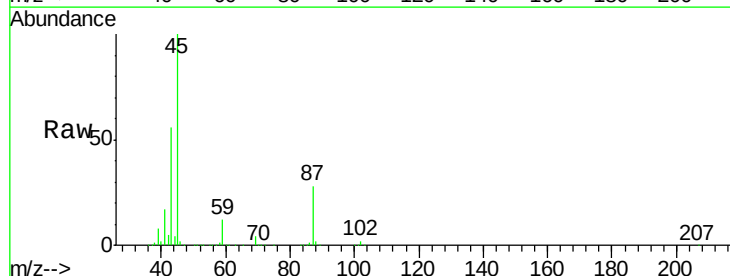
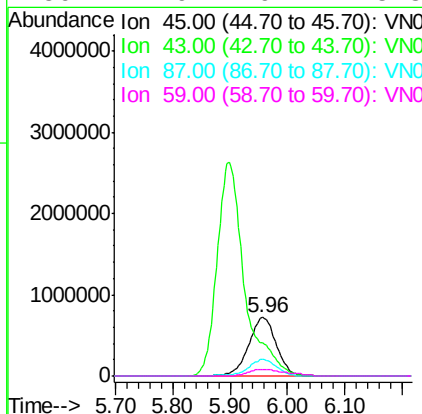
Manual Integrations
APPROVED

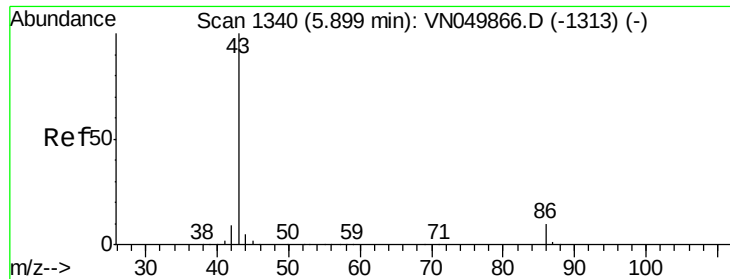
MMDadoda
7/19/2018 4:28:55 PM



#22
Diisopropyl ether
Concen: 109.64 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.0	48.1	72.1
87	27.9	22.6	34.0
59	11.9	9.2	13.8





#23

Vinyl Acetate

Concen: 539.65 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 8762238

Ion Ratio Lower Upper

43 100

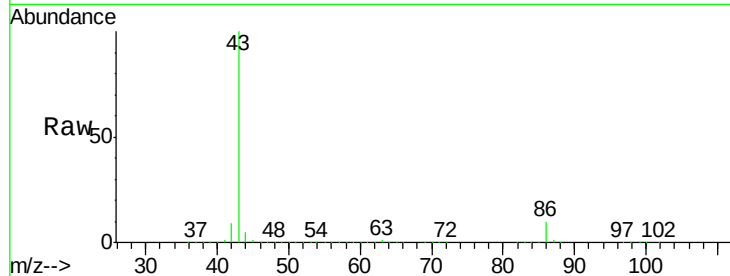
86 10.4 8.4 12.6

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

3000000

2500000

2000000

1500000

1000000

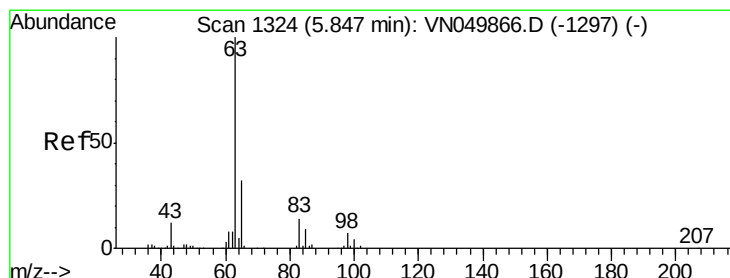
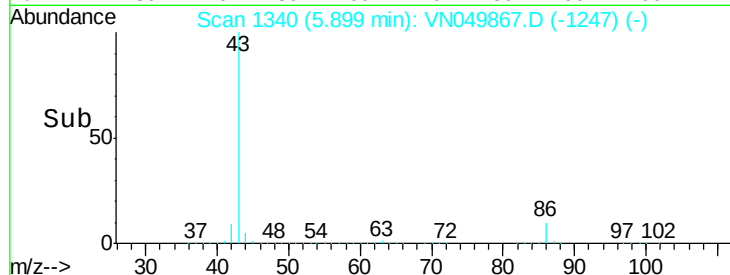
500000

0

5.80

6.00

Time-->



#24

1,1-Dichloroethane

Concen: 98.08 ug/l

RT: 5.85 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

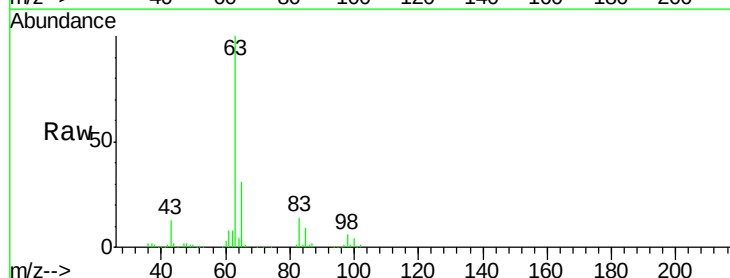
Tgt Ion: 63 Resp: 1387721

Ion Ratio Lower Upper

63 100

98 6.4 3.4 10.2

100 4.1 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

600000

500000

400000

300000

200000

100000

0

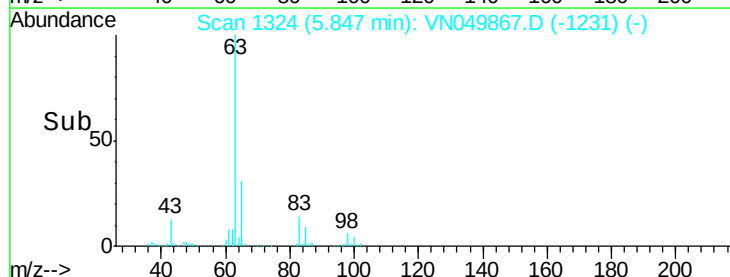
5.70

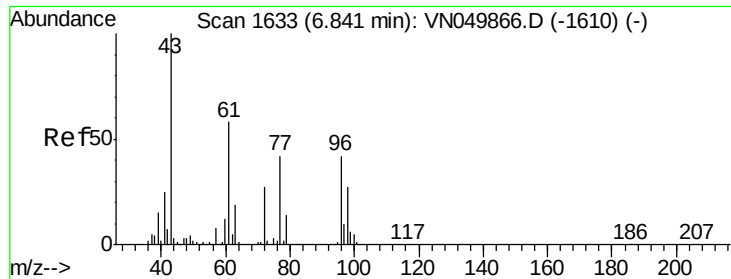
5.80

5.90

6.00

Time-->





#25

2-Butanone

Concen: 472.36 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1736592

Ion Ratio Lower Upper

43 100

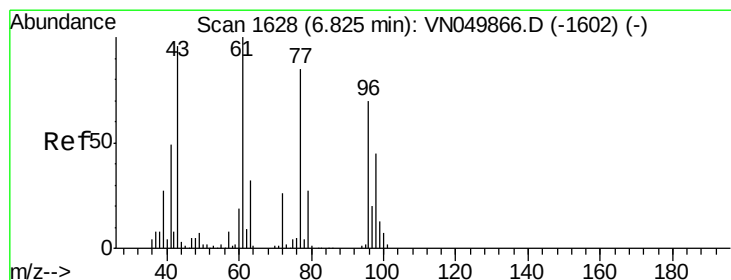
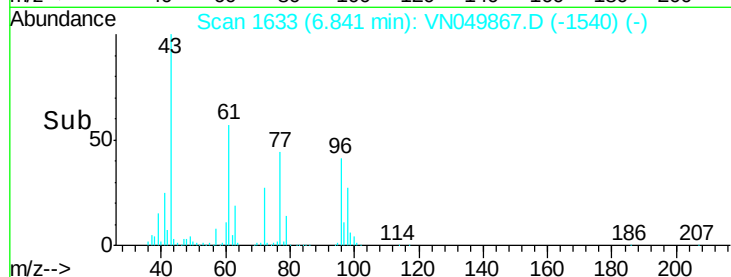
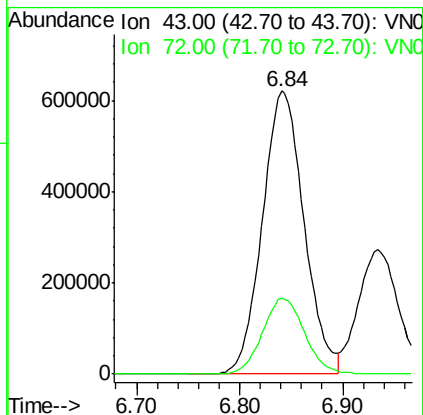
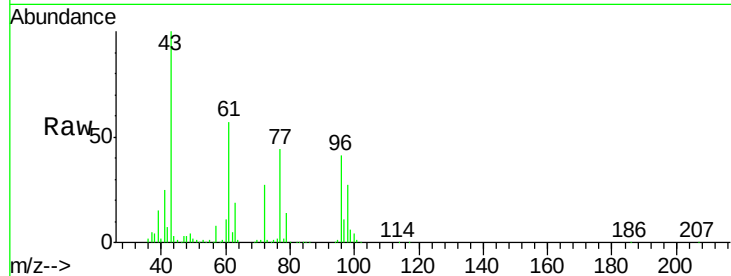
72 27.0 22.1 33.1

Manual Integrations

APPROVED

MMDadoda

7/19/2018 4:28:55 PM



#26

2,2-Dichloropropane

Concen: 103.35 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN049867.D

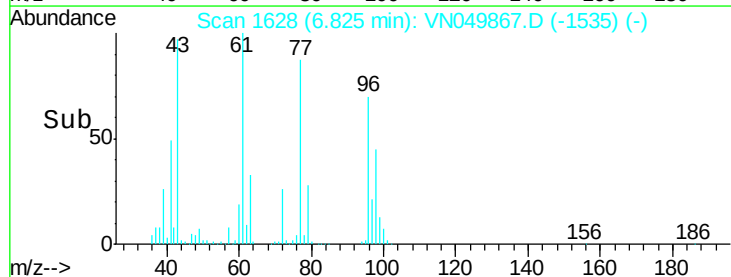
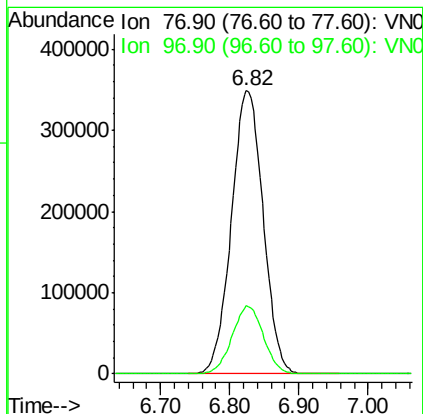
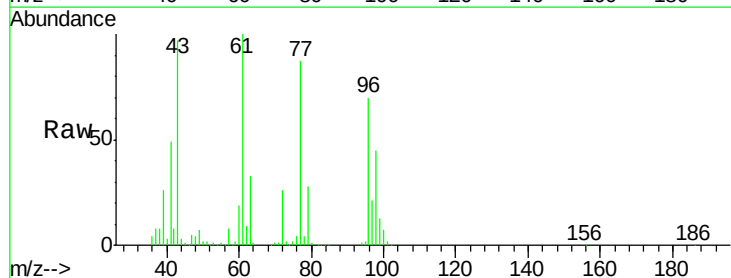
Acq: 18 Jul 2018 12:00

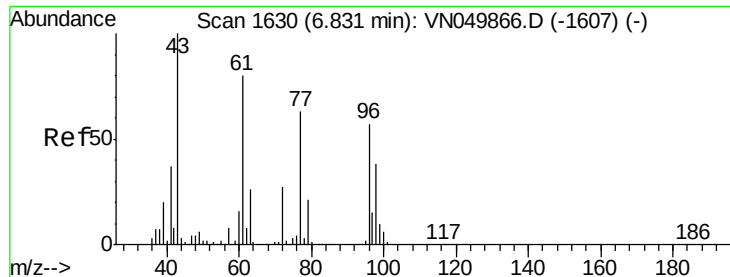
Tgt Ion: 77 Resp: 1113191

Ion Ratio Lower Upper

77 100

97 23.7 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 102.81 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

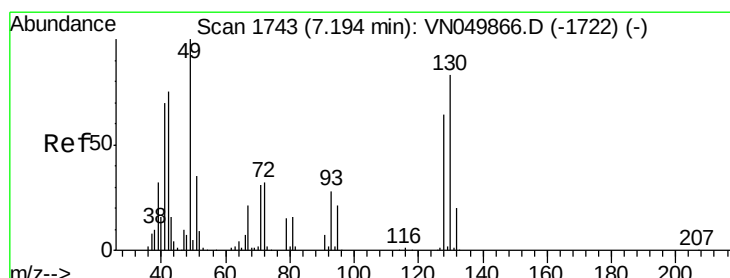
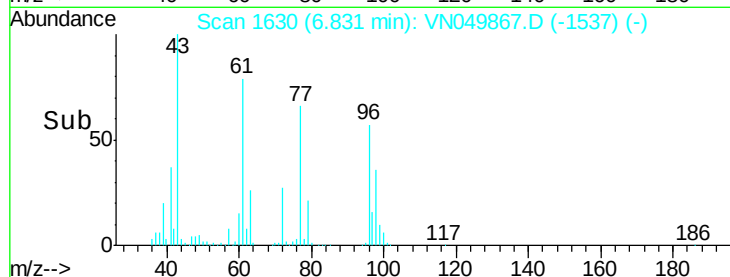
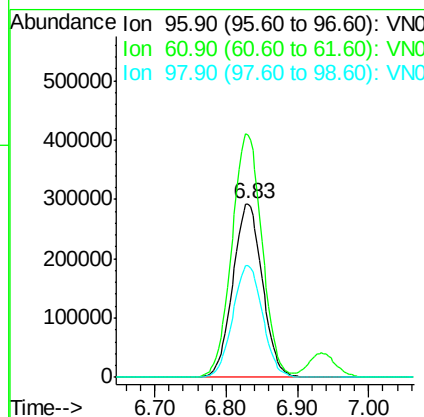
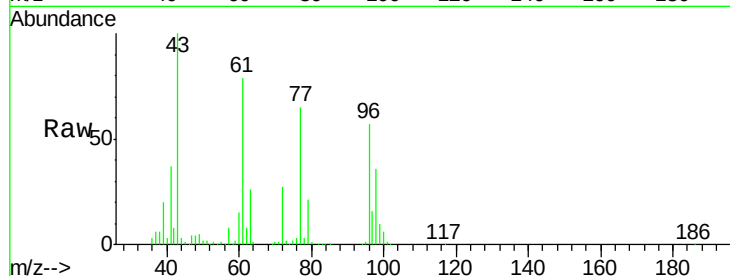
ClientSampled :

VSTDIC100

Tot Ion:	96	Resp:	847414
Ion	Ratio	Lower	Upper
96	100		
61	142.9	0.0	289.0
98	65.0	0.0	130.2

Manual Integrations
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#28

Bromochloromethane

Concen: 103.19 ug/l

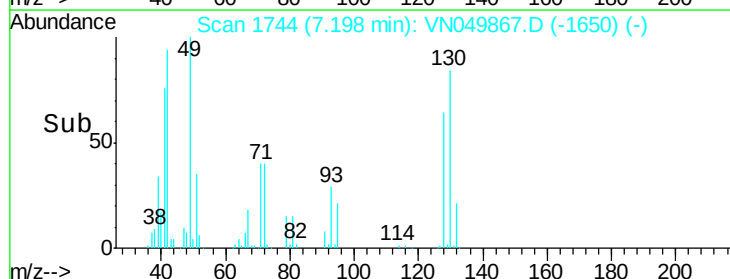
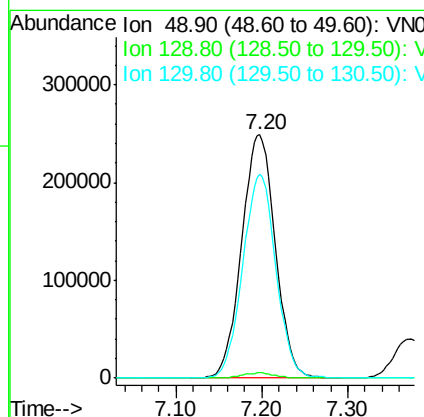
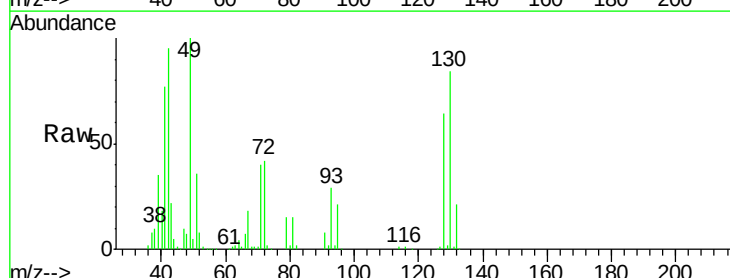
RT: 7.20 min Scan# 1744

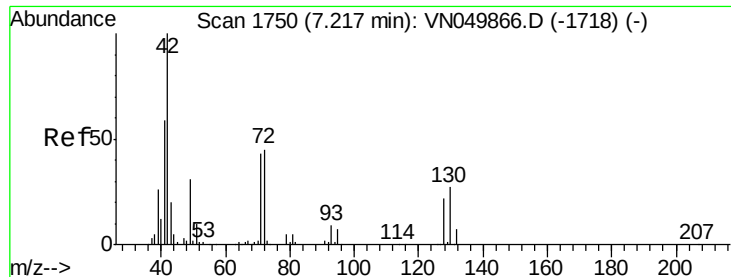
Delta R.T. 0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Tgt Ion:	49	Resp:	677737
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	82.4	65.5	98.3





#29

Tetrahydrofuran

Concen: 484.58 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 42 Resp: 1132743

Ion Ratio Lower Upper

42 100

72 44.9 35.6 53.4

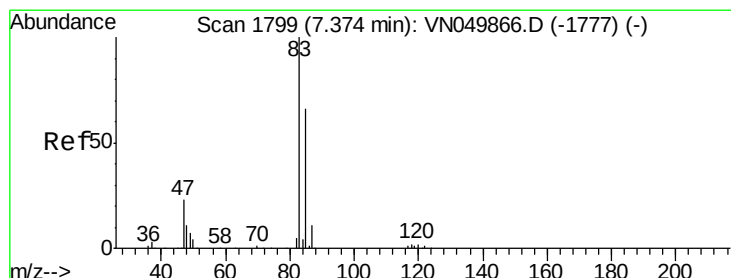
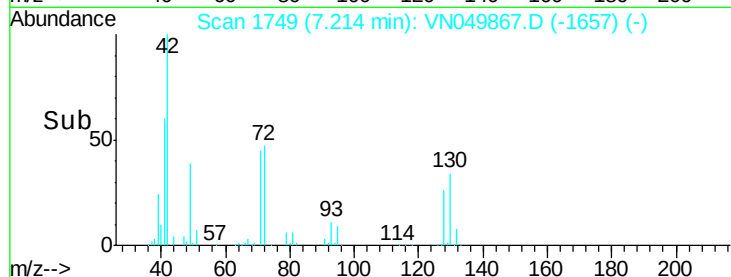
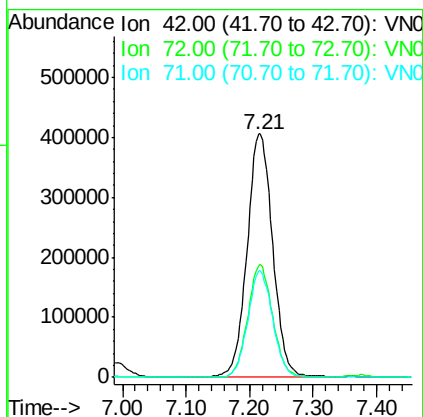
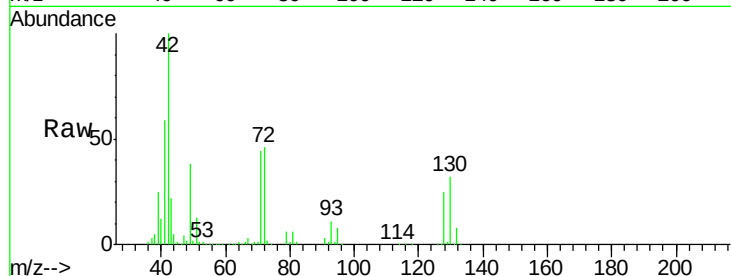
71 42.6 34.0 51.0

Manual Integrations

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#30

Chloroform

Concen: 97.03 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. -0.00 min

Lab File: VN049867.D

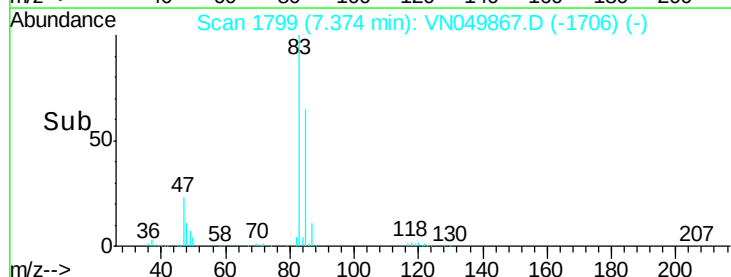
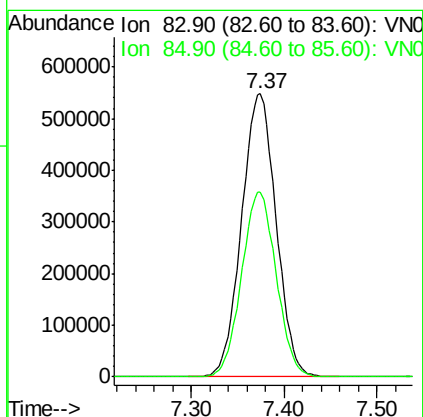
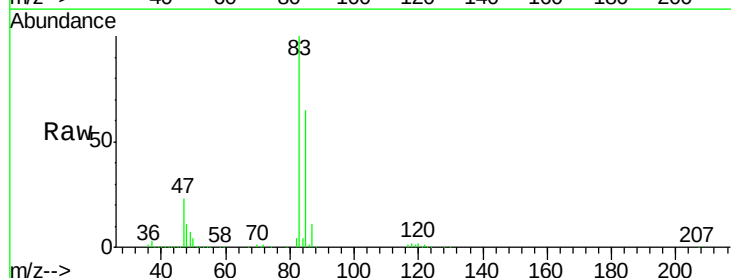
Acq: 18 Jul 2018 12:00

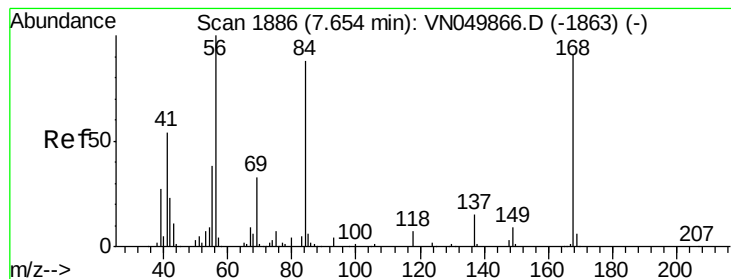
Tgt Ion: 83 Resp: 1417196

Ion Ratio Lower Upper

83 100

85 65.1 51.4 77.2





#31

Cyclohexane

Concen: 89.69 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 56 Resp: 1206728

Ion Ratio Lower Upper

56 100

69 31.7 26.6 40.0

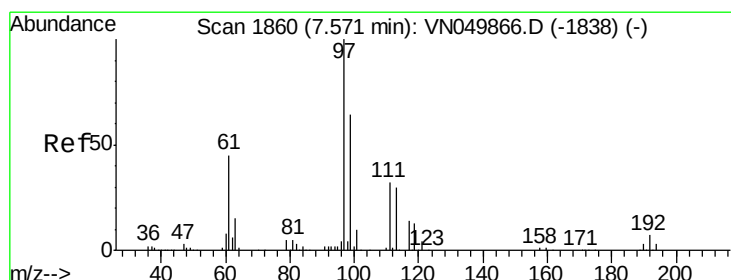
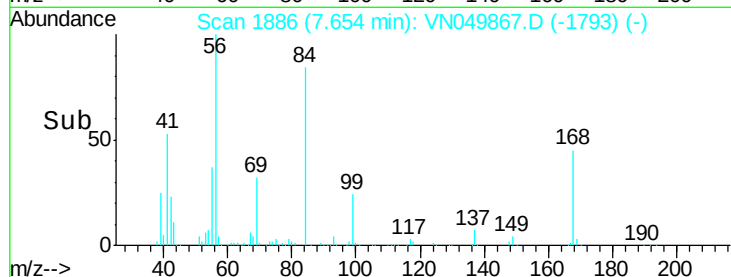
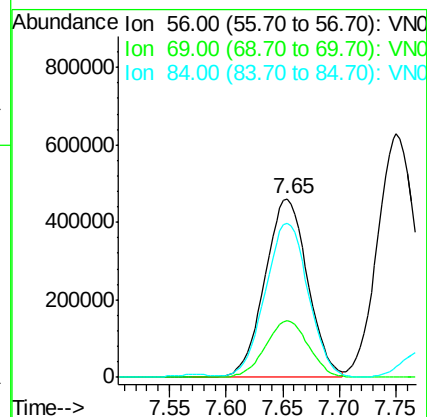
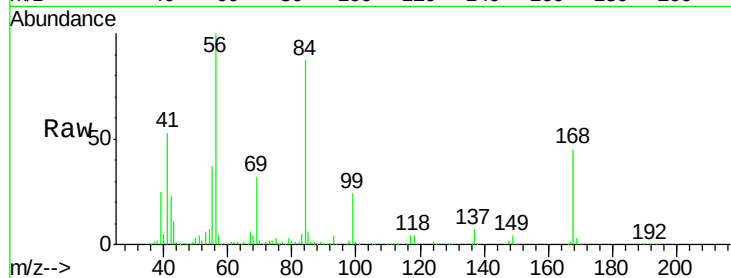
84 84.9 69.0 103.6

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 99.36 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

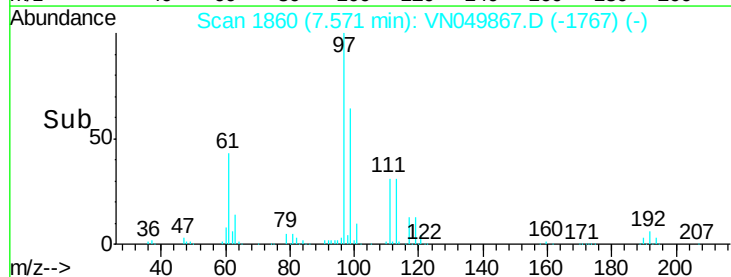
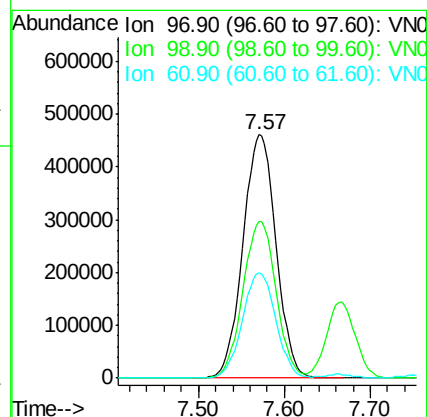
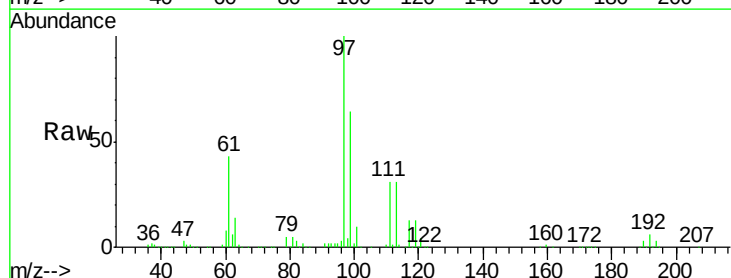
Tgt Ion: 97 Resp: 1232644

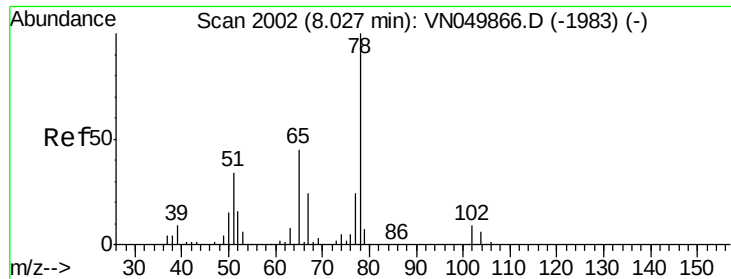
Ion Ratio Lower Upper

97 100

99 64.8 51.0 76.4

61 43.7 35.5 53.3





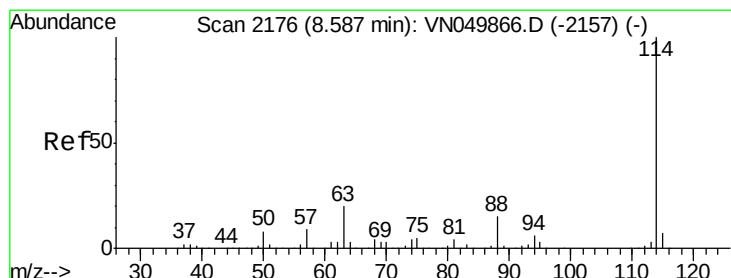
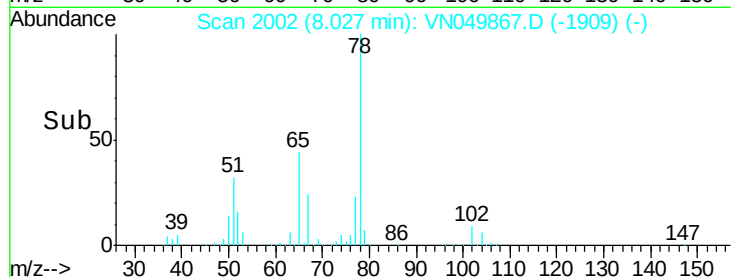
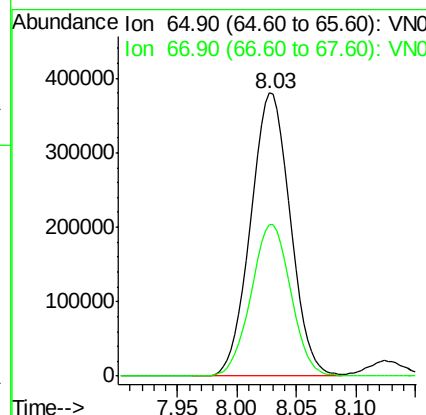
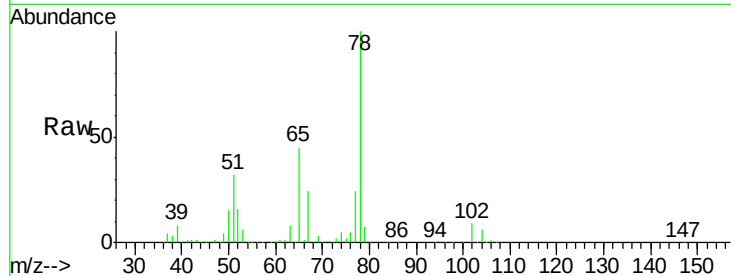
#33
 1,2-Dichloroethane-d4
 Concen: 98.46 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	107.2

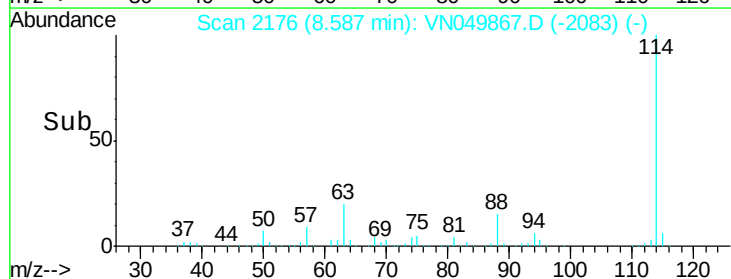
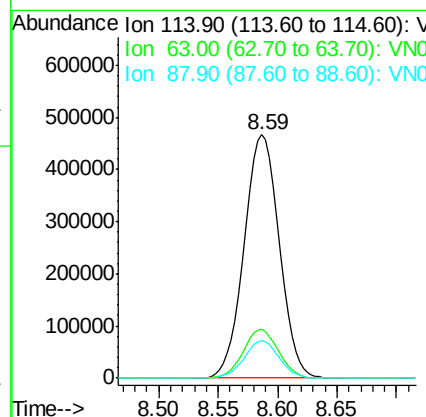
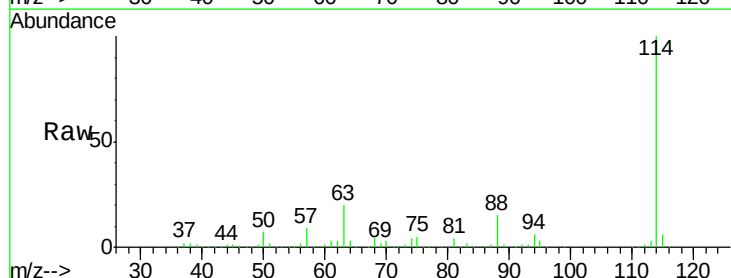
Manual Integrations
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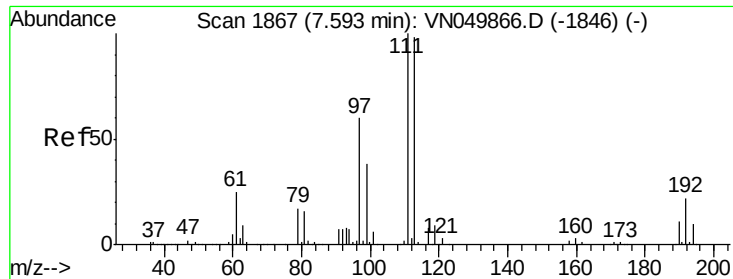
MMDadoda
 7/19/2018 4:28:55 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.8
88	15.4	0.0	30.6





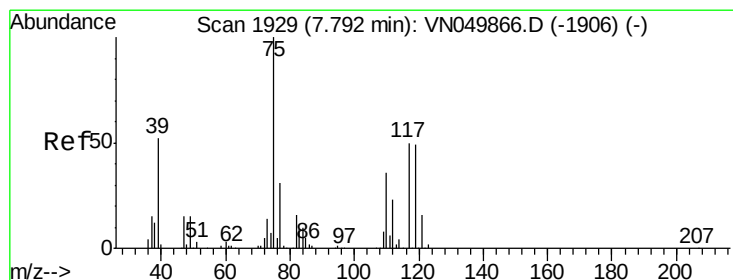
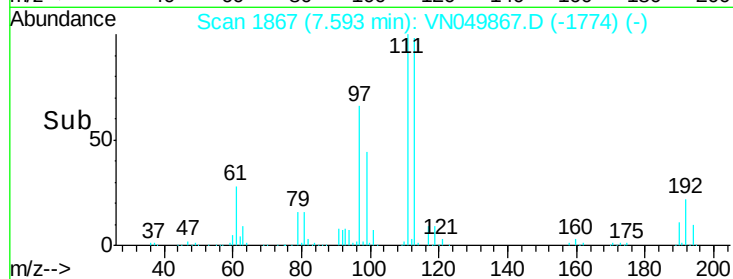
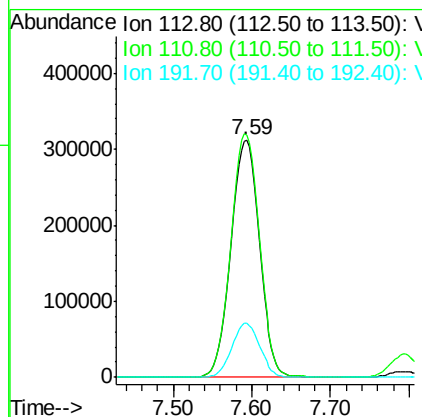
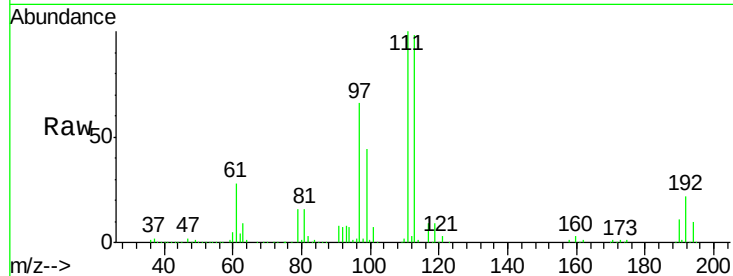
#35
 Dibromofluoromethane
 Concen: 104.00 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.8
192	22.3	17.8	26.6

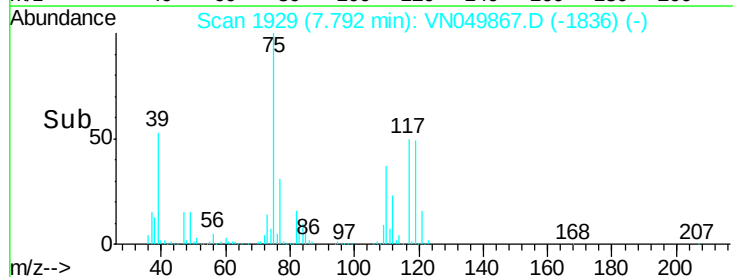
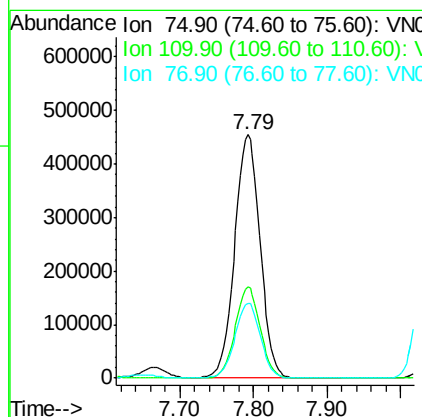
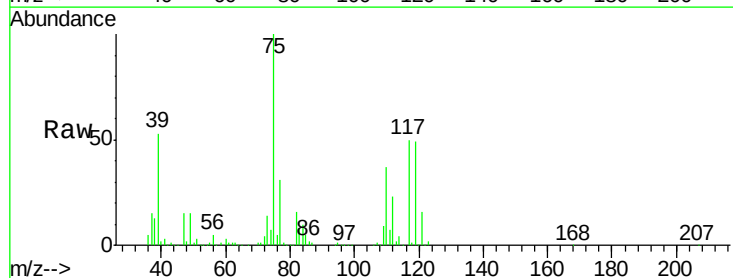
Manual Integrations
 APPROVED

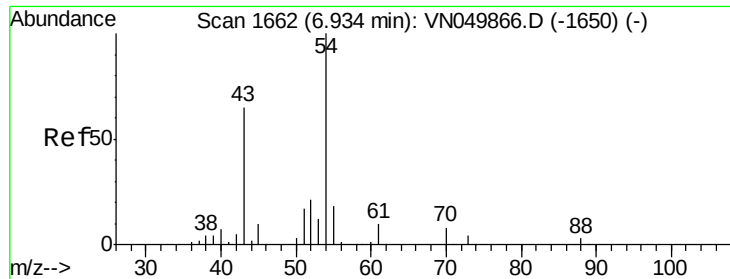
MMDadoda
 7/19/2018 4:28:55 PM



#36
 1,1-Dichloropropene
 Concen: 107.22 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.7	18.1	54.4
77	31.1	24.9	37.3





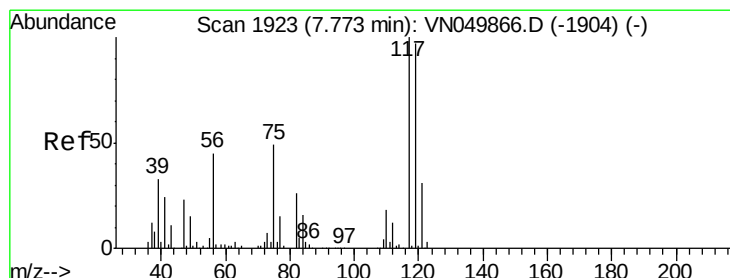
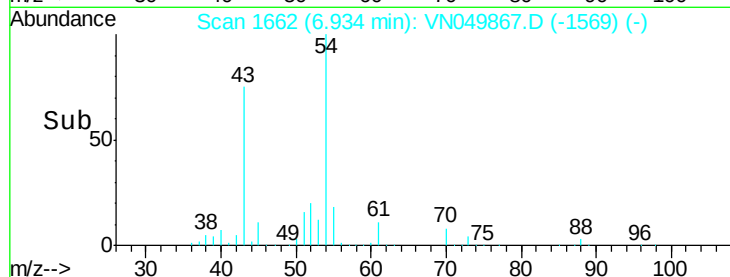
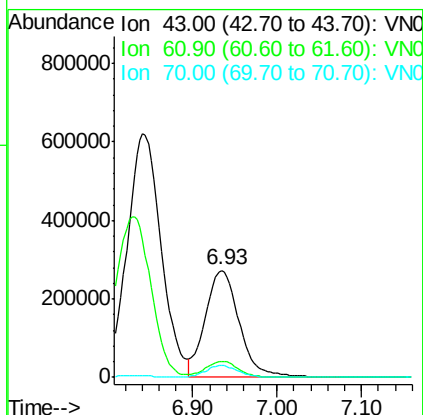
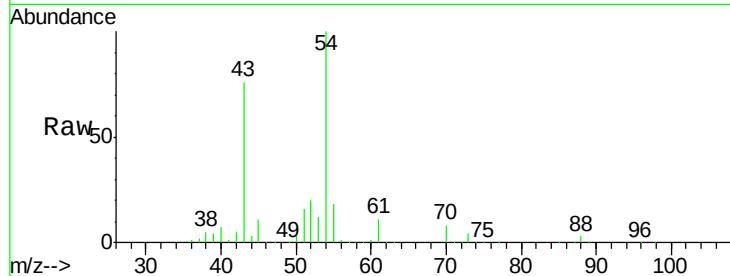
#37
Ethyl Acetate
Concen: 99.94 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.4	11.7	17.5
70	10.7	8.4	12.6

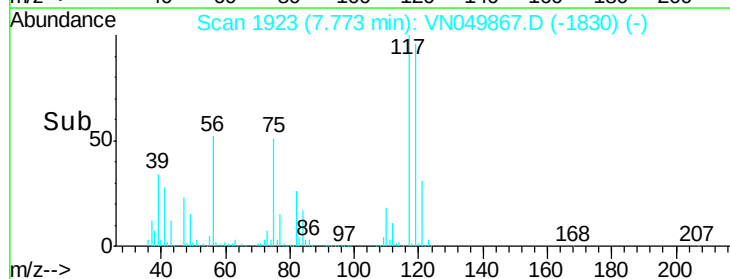
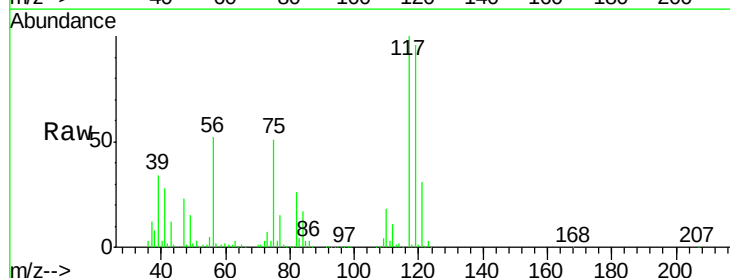
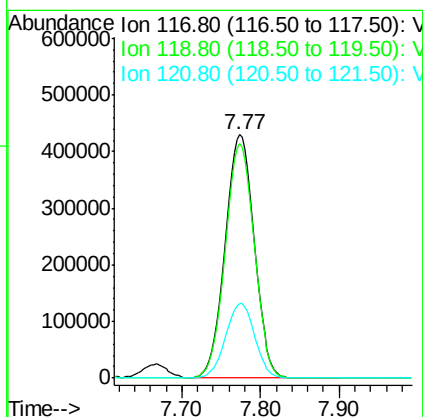
Manual Integrations
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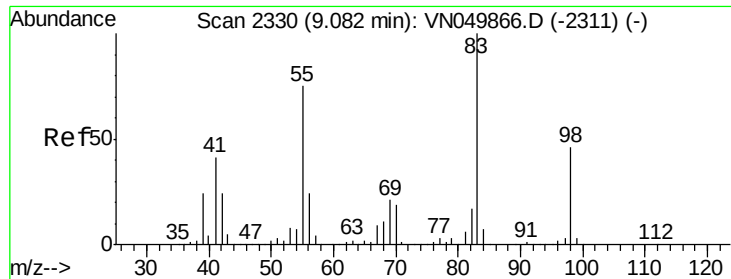
MMDadoda
7/19/2018 4:28:55 PM



#38
Carbon Tetrachloride
Concen: 103.01 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.2	115.8
121	30.7	25.0	37.6





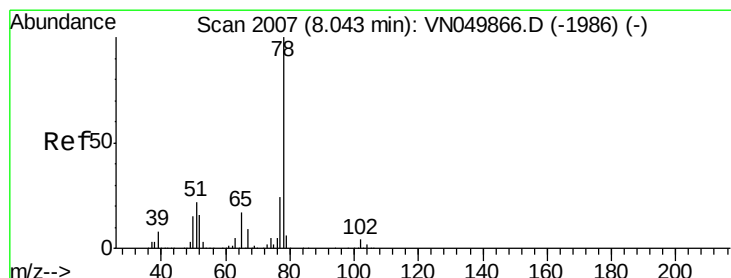
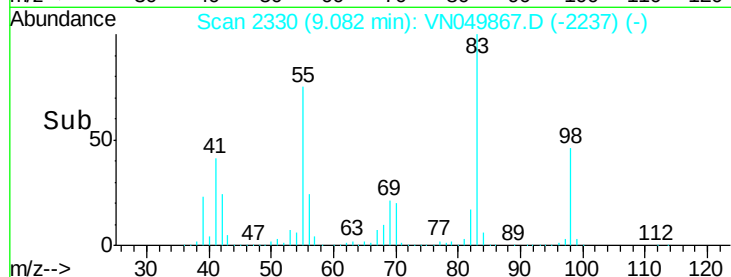
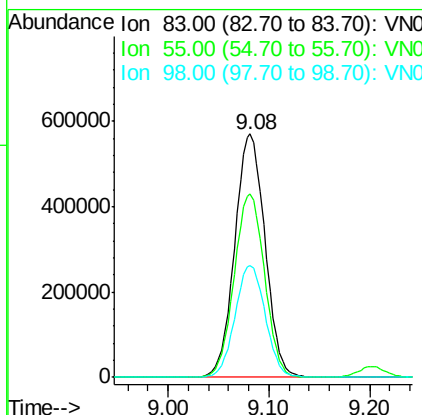
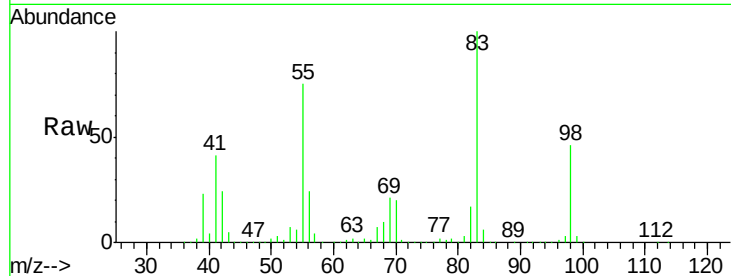
#39
Methylvlcyclohexane
Concen: 113.64 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	83	Resp	1186492
Ion	Ratio	Lower	Upper
83	100		
55	75.5	59.7	89.5
98	46.1	36.5	54.7

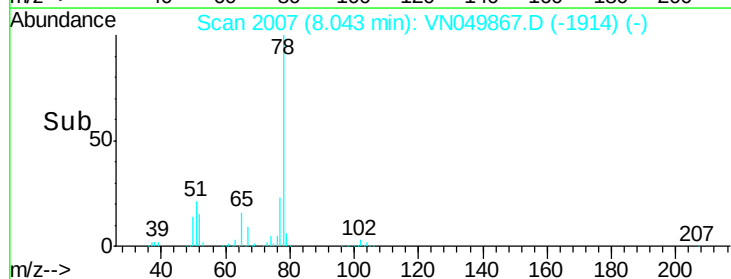
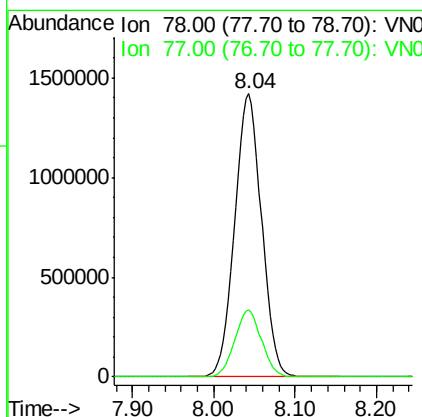
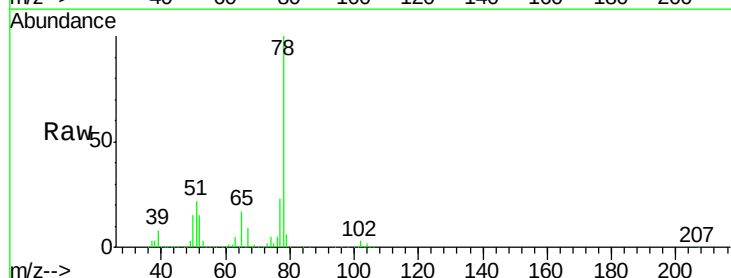
Manual Integrations
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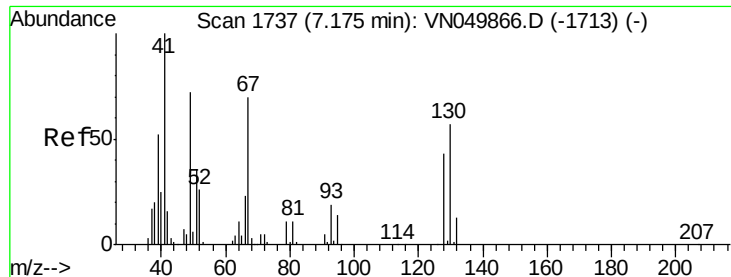
MMDadoda
7/19/2018 4:28:55 PM



#40
Benzene
Concen: 105.73 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion	78	Resp	3249076
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4





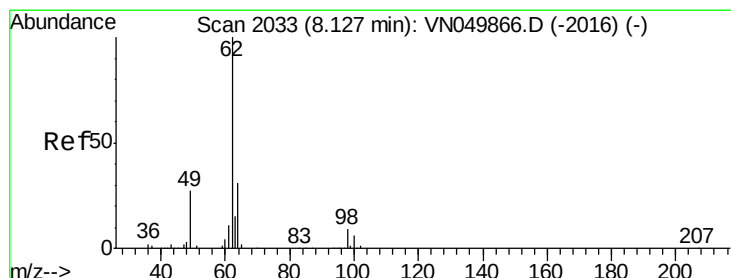
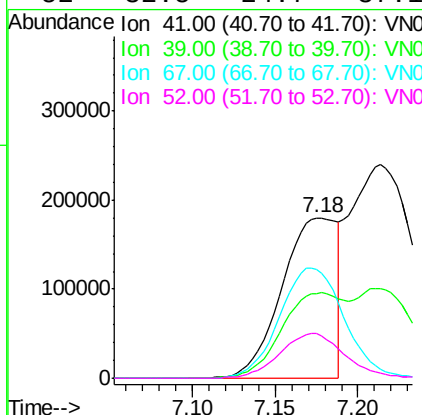
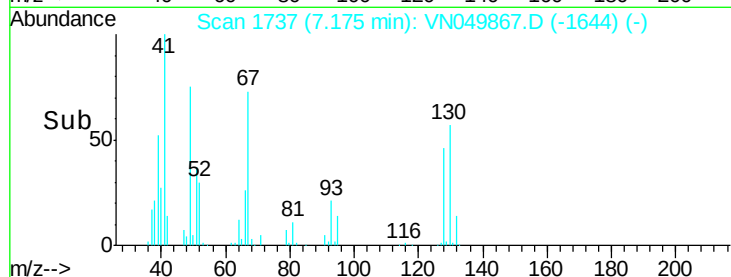
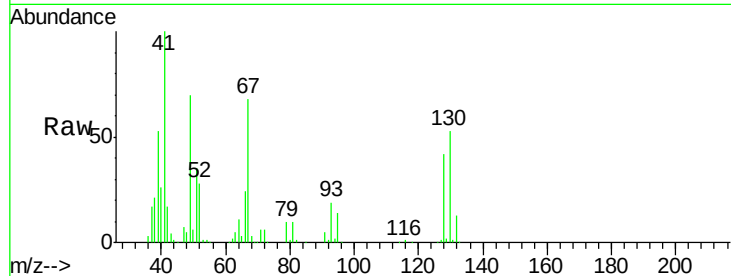
#41
Methacrylonitrile
Concen: 107.17 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	41	Resp	416052
Ion Ratio	Lower	Upper	
41	100		
39	61.2	45.4	68.2
67	81.4	65.4	98.0
52	32.5	24.7	37.1

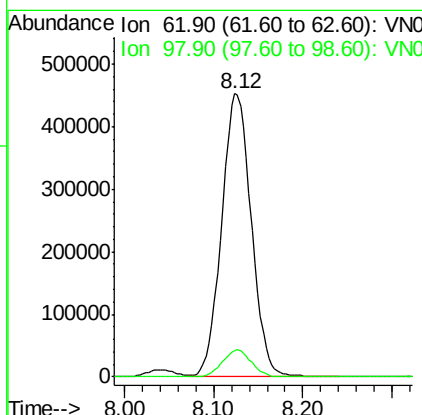
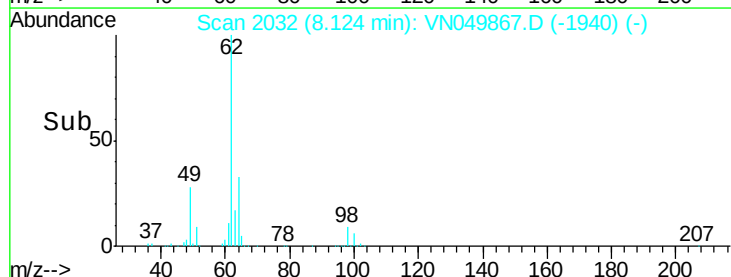
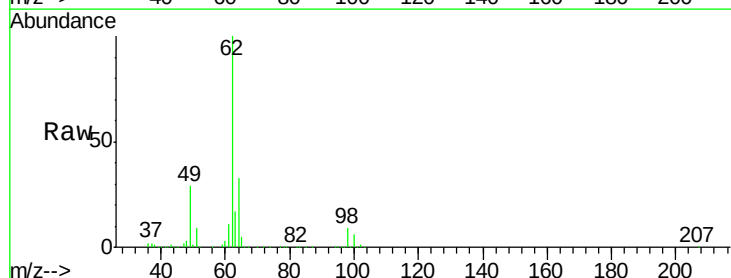
Manual Integrations
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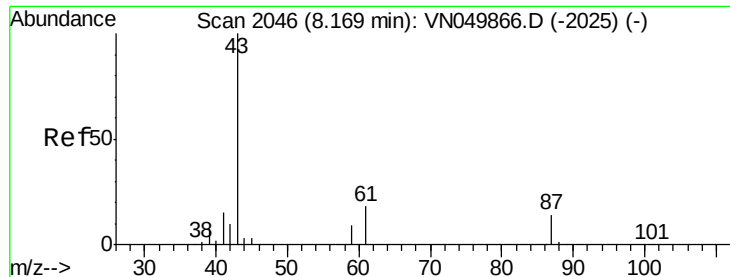
MMDadoda
7/19/2018 4:28:55 PM



#42
1,2-Dichloroethane
Concen: 99.54 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion	62	Resp	1040207
Ion Ratio	Lower	Upper	
62	100		
98	9.3	0.0	19.0





#43

Isopropyl Acetate

Concen: 104.94 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1349965

Ion Ratio Lower Upper

43 100

61 20.8 14.9 22.3

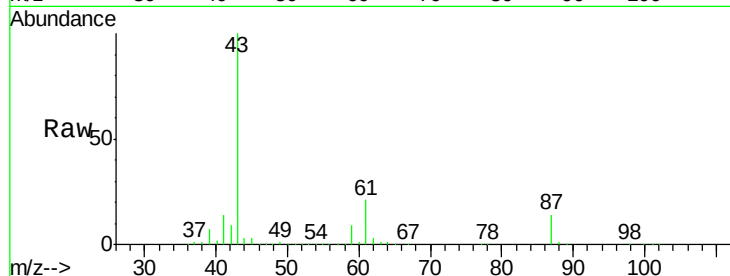
87 13.5 10.0 15.0

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Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2025) (-)

Ion 61.00 (60.70 to 61.70): VN049866.D (-2025) (-)

Ion 87.00 (86.70 to 87.70): VN049866.D (-2025) (-)

8.17

600000

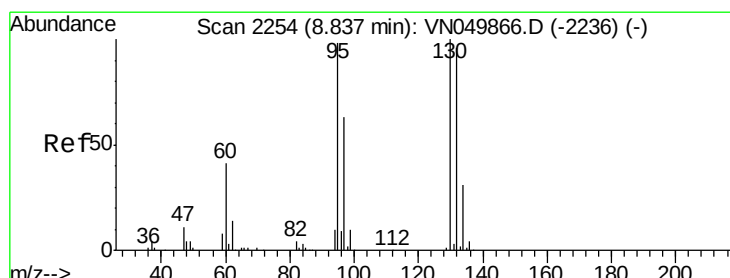
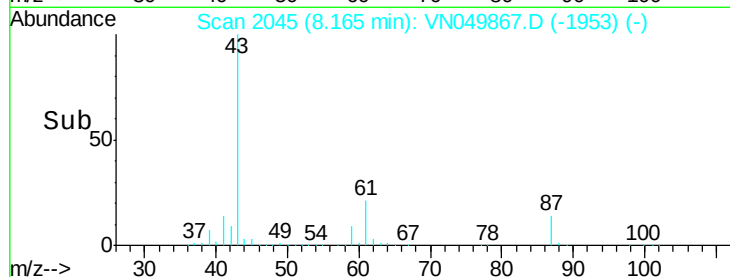
400000

200000

0

8.10 8.20

Time-->



#44

Trichloroethene

Concen: 104.45 ug/l

RT: 8.83 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VN049867.D

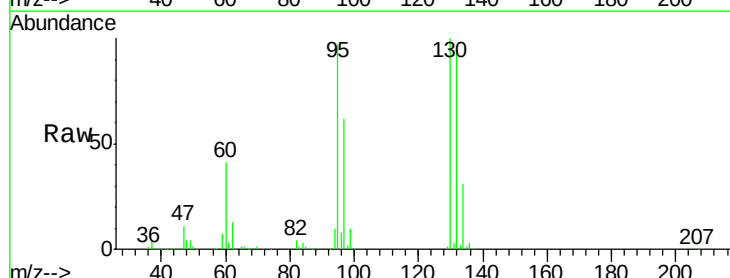
Acq: 18 Jul 2018 12:00

Tgt Ion:130 Resp: 844404

Ion Ratio Lower Upper

130 100

95 96.7 0.0 192.8



Abundance Ion 129.80 (129.50 to 130.50): VN049866.D (-2236) (-)

Ion 94.90 (94.60 to 95.60): VN049866.D (-2236) (-)

8.83

400000

300000

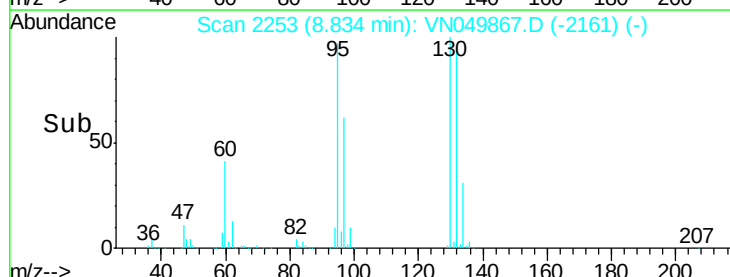
200000

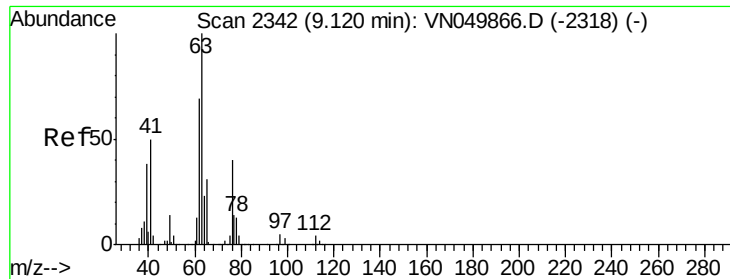
100000

0

8.75 8.80 8.85 8.90 8.95

Time-->





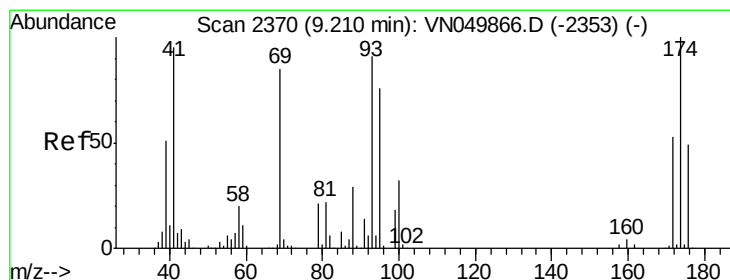
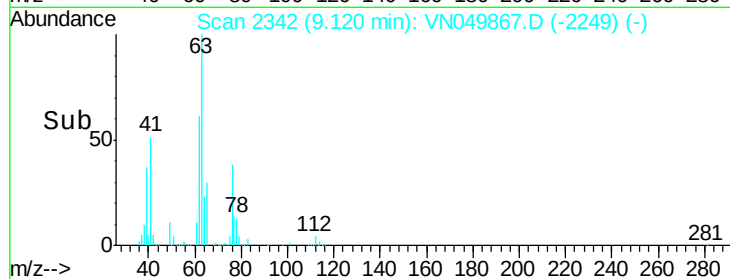
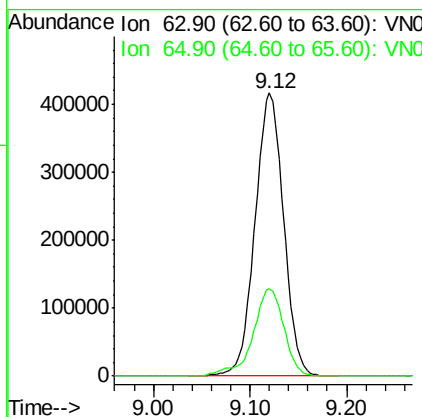
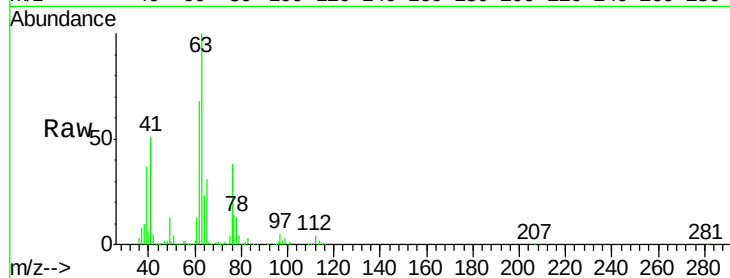
#45
 1,2-Dichloropropane
 Concen: 104.43 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 63 Resp: 854963
 Ion Ratio Lower Upper
 63 100
 65 30.8 24.7 37.1

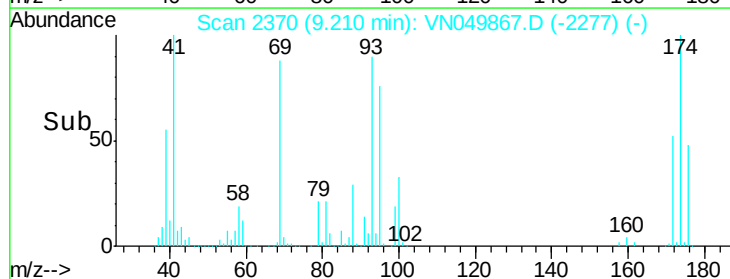
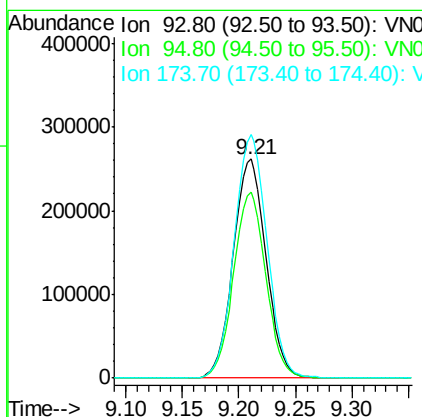
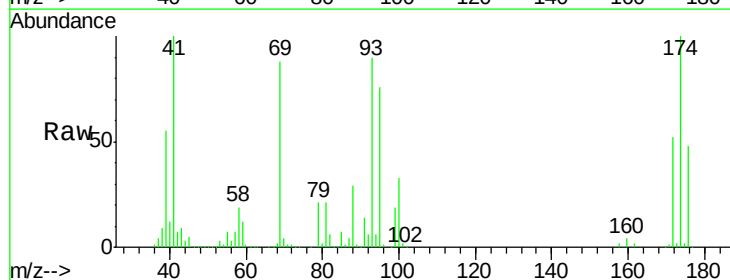
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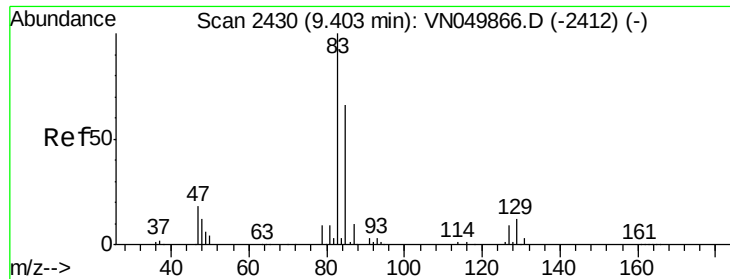
MMDadoda
 7/19/2018 4:28:55 PM



#46
 Dibromomethane
 Concen: 101.36 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion: 93 Resp: 529462
 Ion Ratio Lower Upper
 93 100
 95 83.8 67.9 101.9
 174 111.2 89.4 134.0





#47

Bromodichloromethane

Concen: 106.47 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1130176

Ion Ratio Lower Upper

83 100

85 64.4 50.5 75.7

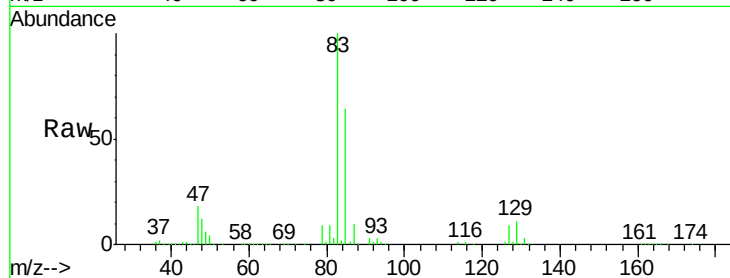
127 8.7 6.8 10.2

Manual Integrations

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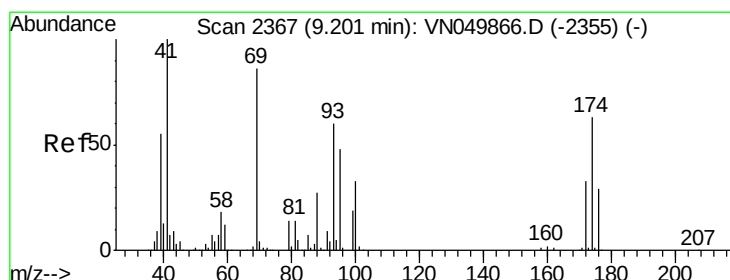
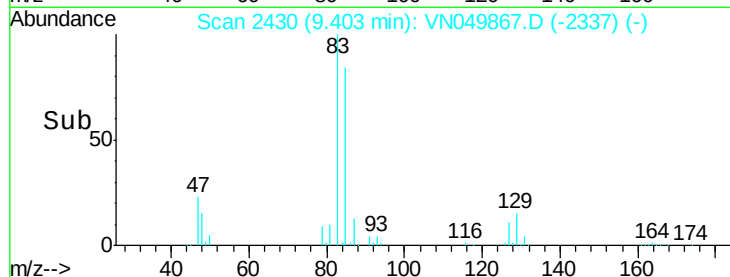
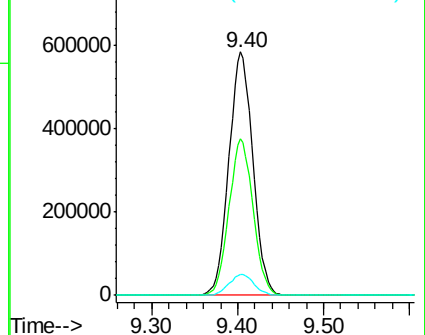
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Abundance Ion 82.90 (82.60 to 83.60): VN049867.D (-2337) (-)

Ion 84.90 (84.60 to 85.60): VN049867.D (-2337) (-)

Ion 126.80 (126.50 to 127.50): VN049867.D (-2337) (-)



#48

Methyl methacrylate

Concen: 106.58 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

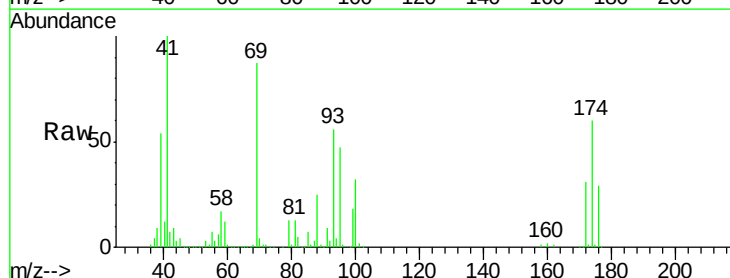
Tgt Ion: 41 Resp: 679825

Ion Ratio Lower Upper

41 100

69 90.0 71.5 107.3

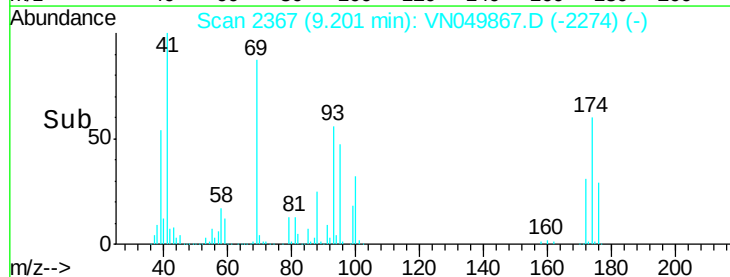
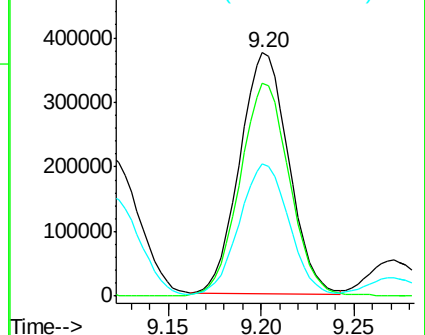
39 56.1 44.7 67.1

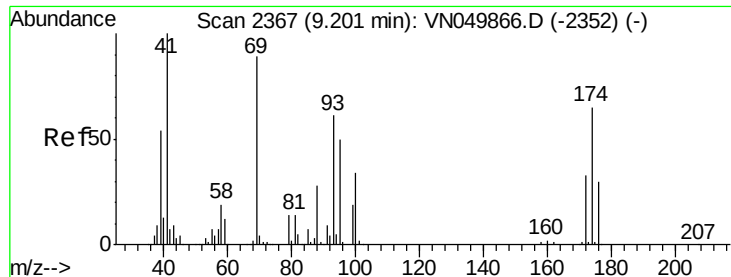


Abundance Ion 41.00 (40.70 to 41.70): VN049867.D (-2274) (-)

Ion 69.00 (68.70 to 69.70): VN049867.D (-2274) (-)

Ion 39.00 (38.70 to 39.70): VN049867.D (-2274) (-)





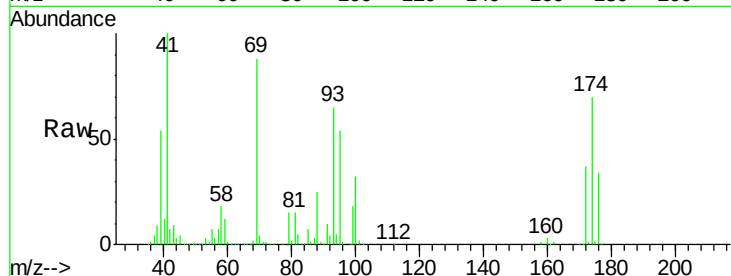
#49
1,4-Dioxane
Concen: 2035.73 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
88	100	196841		
43	31.9	25.1	37.7	
58	68.7	52.5	78.7	

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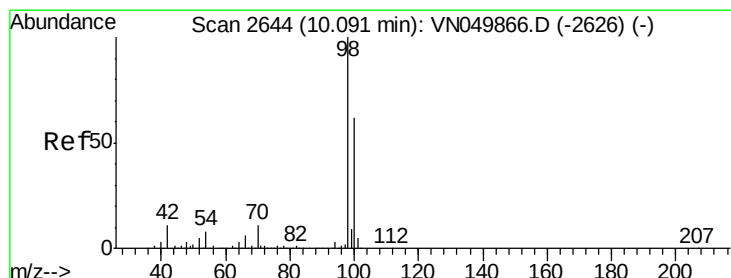
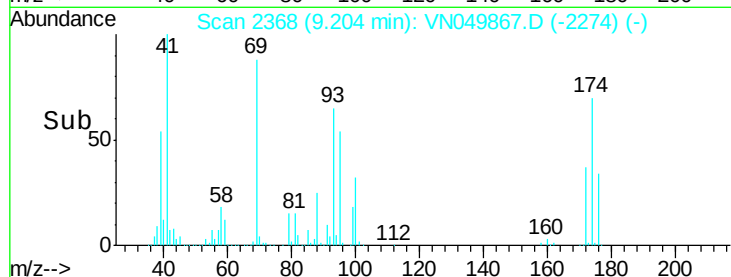
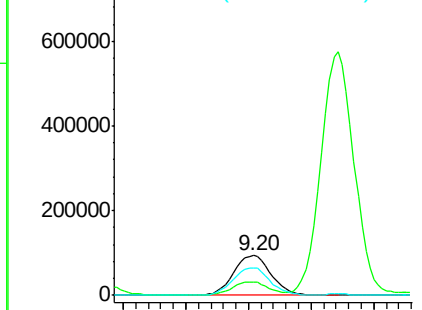


Abundance

Ion 88.00 (87.70 to 88.70): VN049866.D (-2352) (-)

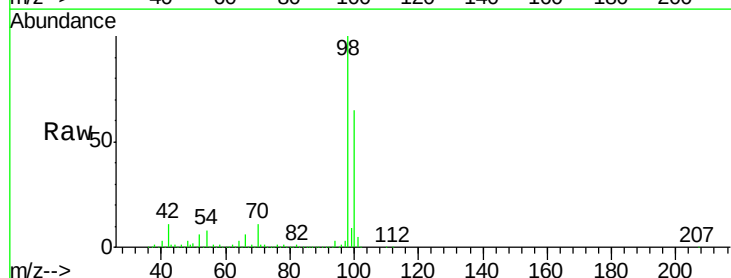
Ion 43.00 (42.70 to 43.70): VN049866.D (-2352) (-)

Ion 58.00 (57.70 to 58.70): VN049866.D (-2352) (-)



#50
Toluene-d8
Concen: 107.69 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

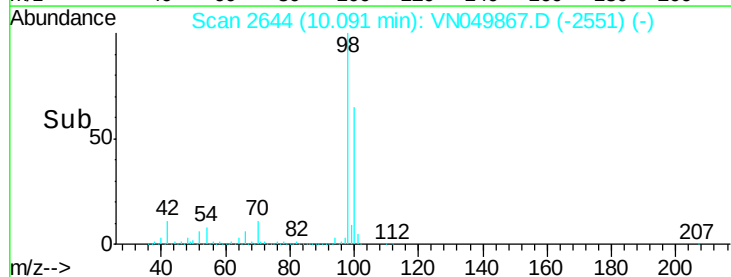
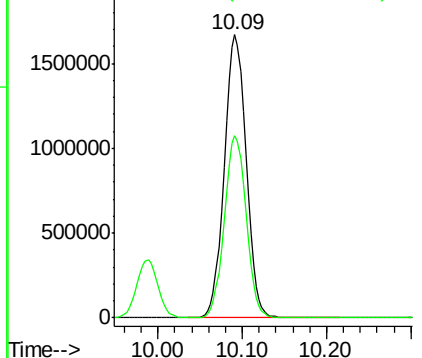
Tgt Ion	Ratio	Resp	Lower	Upper
98	100	3005004		
100	64.4	51.7	77.5	

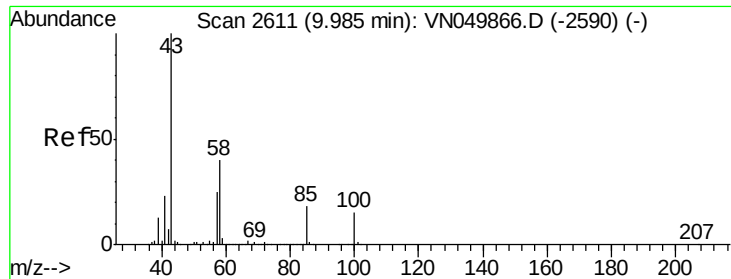


Abundance

Ion 98.00 (97.70 to 98.70): VN049866.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN049866.D (-2626) (-)





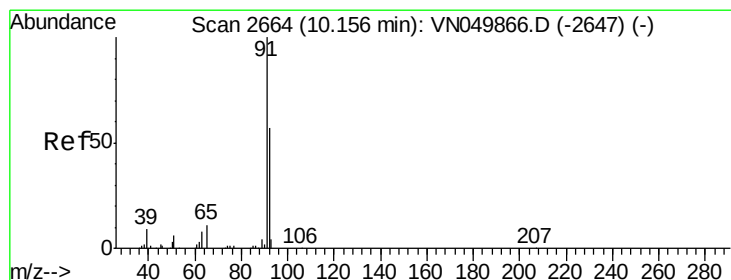
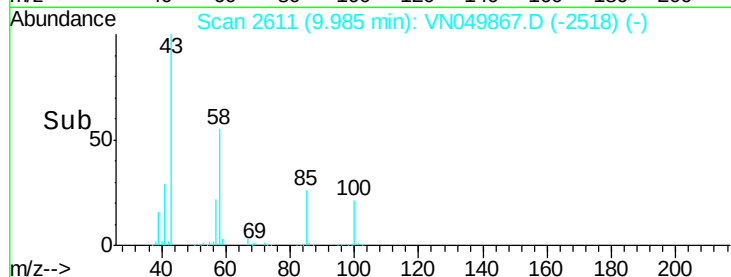
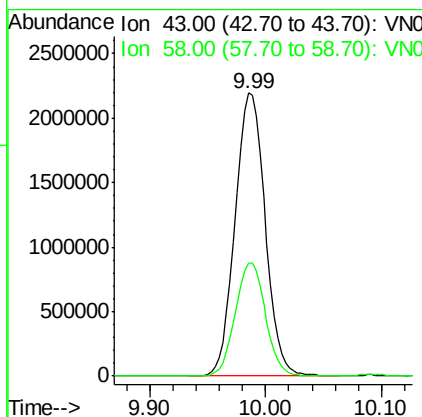
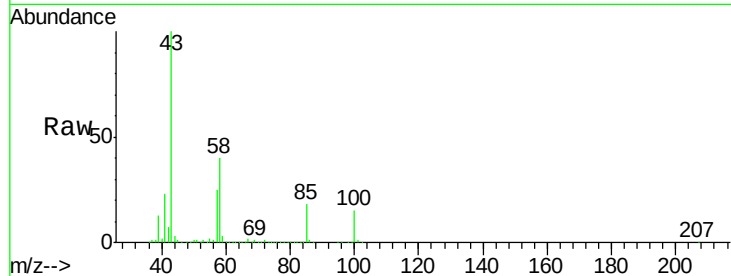
#51
4-Methyl-2-Pentanone
Concen: 522.49 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 3953404
Ion Ratio Lower Upper
43 100
58 40.1 31.8 47.8

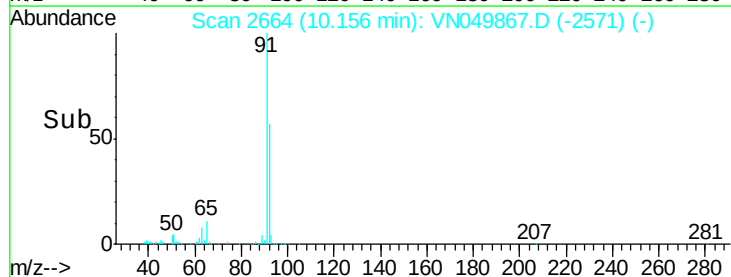
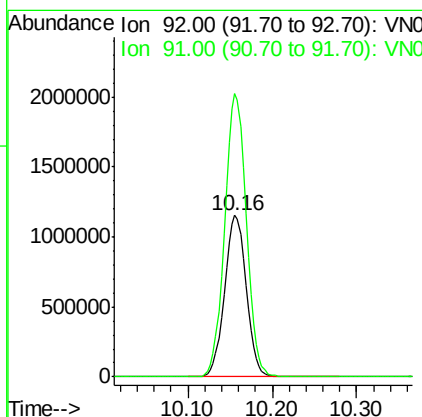
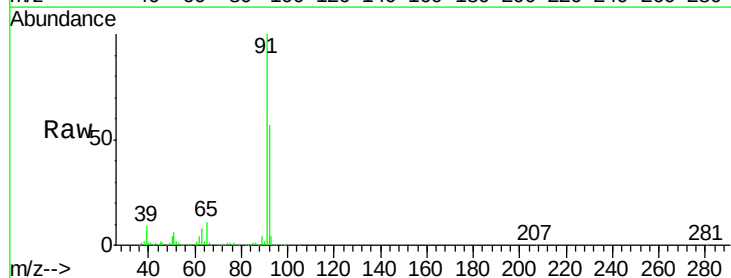
Manual Integrations
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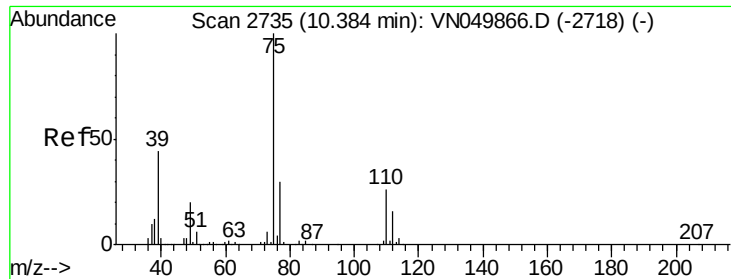
MMDadoda
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#52
Toluene
Concen: 111.47 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion: 92 Resp: 2052845
Ion Ratio Lower Upper
92 100
91 175.2 140.1 210.1





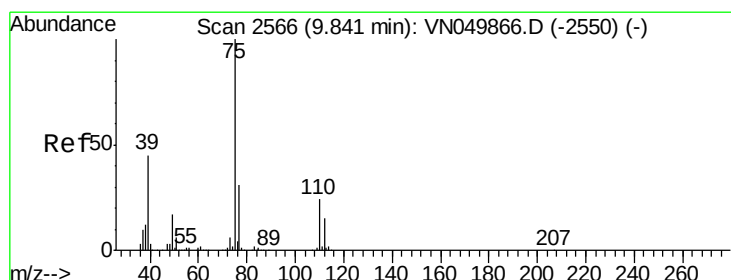
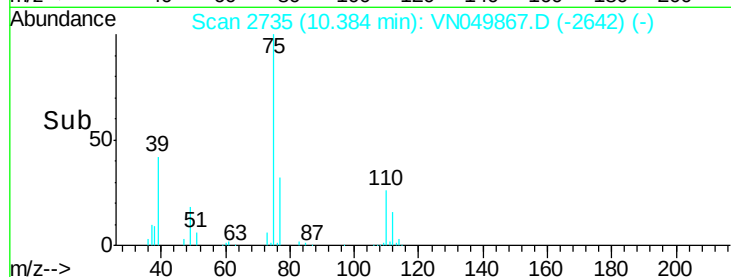
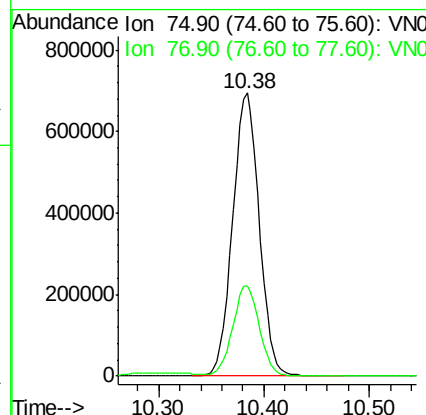
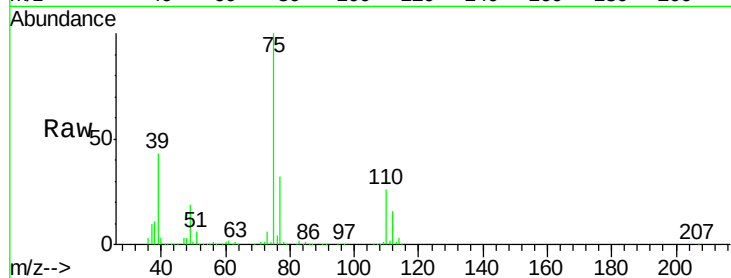
#53
t-1,3-Dichloropropene
Concen: 116.36 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 75 Resp: 1205946
Ion Ratio Lower Upper
75 100
77 31.9 25.2 37.8

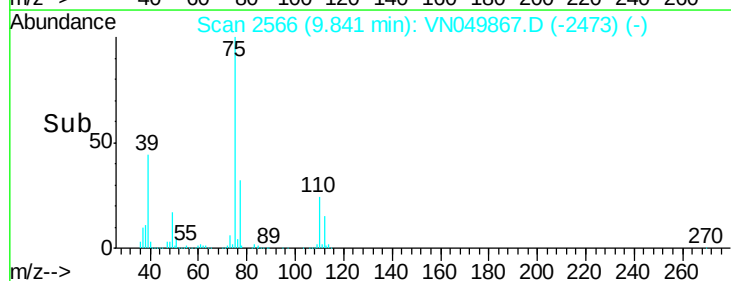
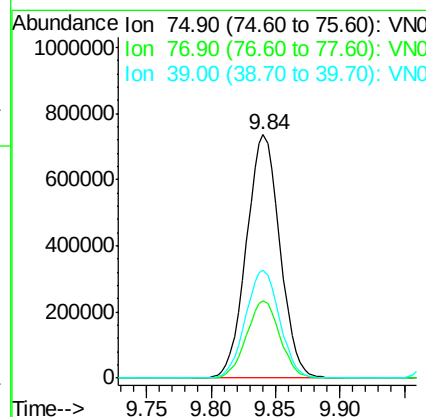
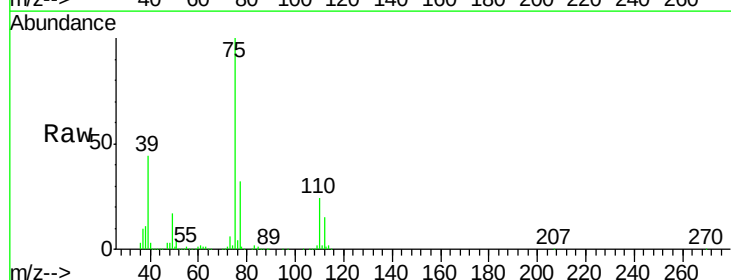
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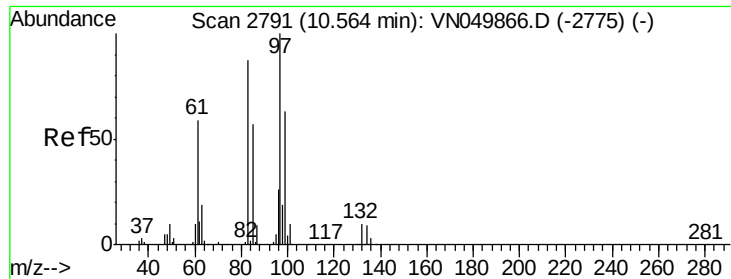
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 114.53 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion: 75 Resp: 1332138
Ion Ratio Lower Upper
75 100
77 31.8 25.3 37.9
39 44.5 35.5 53.3





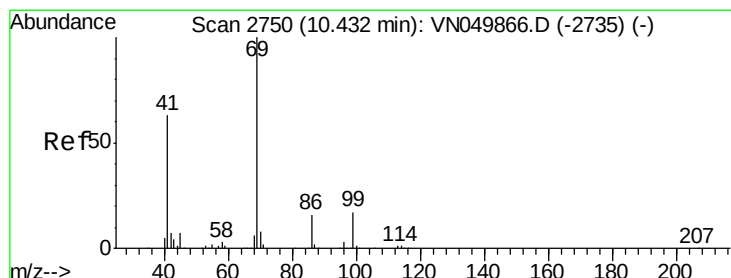
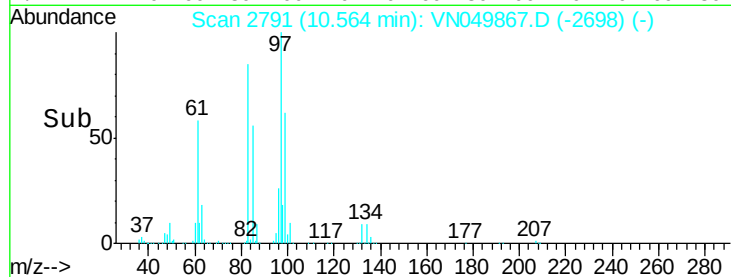
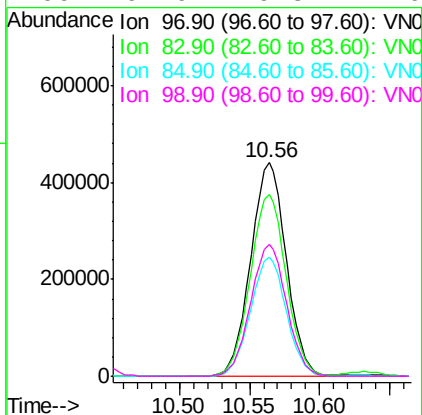
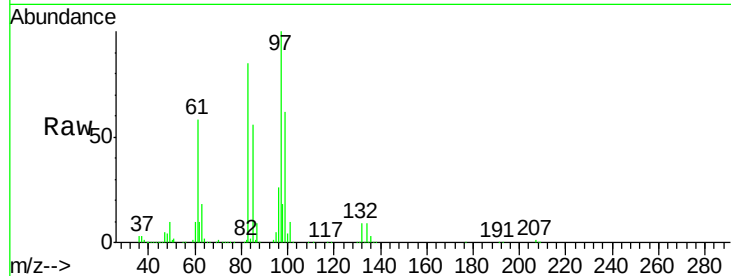
#55
 1,1,2-Trichloroethane
 Concen: 103.15 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	779496
Ion	Ratio	Lower	Upper
97	100		
83	85.0	69.0	103.6
85	55.9	44.9	67.3
99	61.6	49.8	74.6

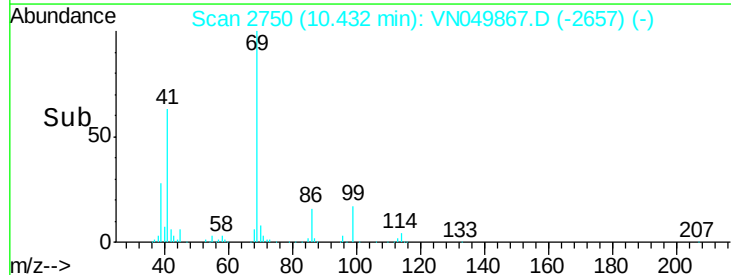
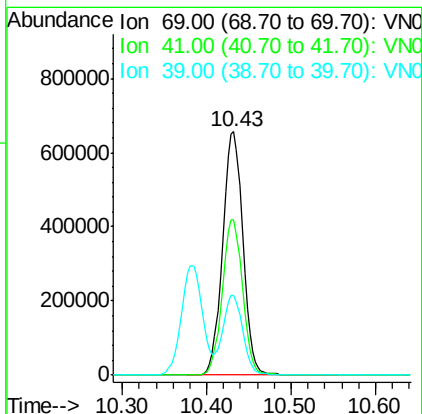
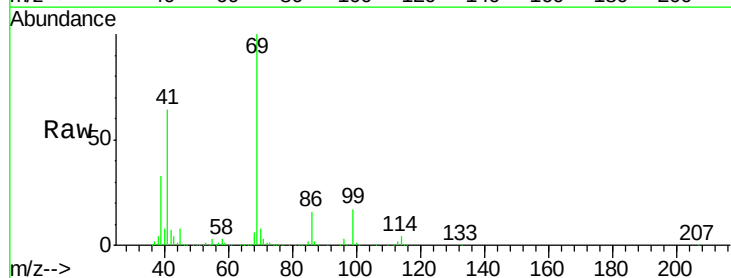
Manual Integrations
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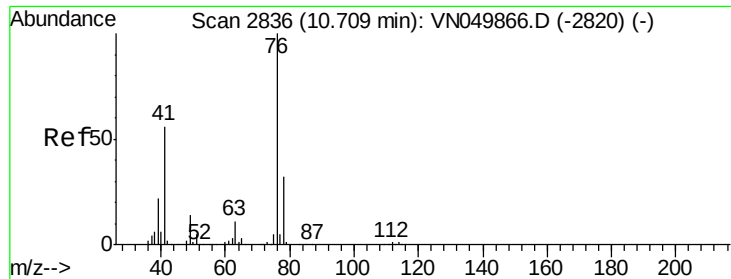
MMDadoda
 7/19/2018 4:28:55 PM



#56
 Ethyl methacrylate
 Concen: 119.86 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion:	69	Resp:	1097101
Ion	Ratio	Lower	Upper
69	100		
41	63.9	51.6	77.4
39	31.7	25.8	38.8





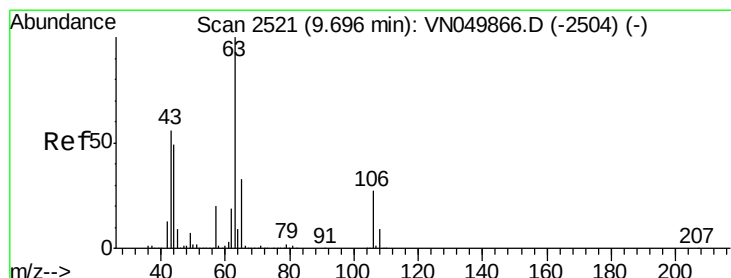
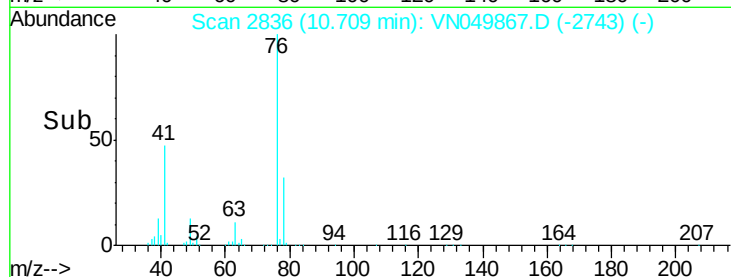
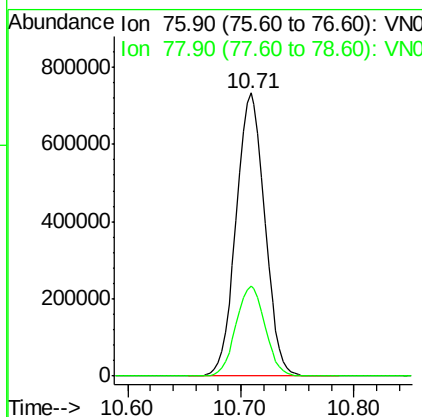
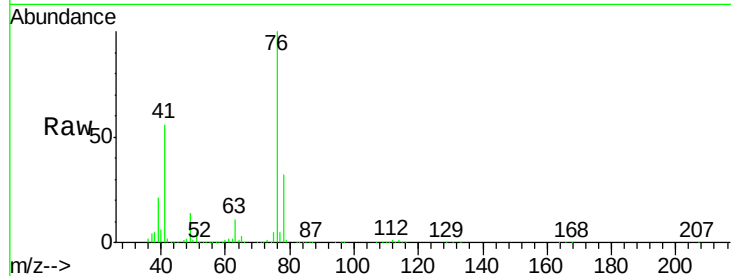
#57
 1,3-Dichloropropane
 Concen: 105.92 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion: 76 Resp: 1296597
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.8 38.8

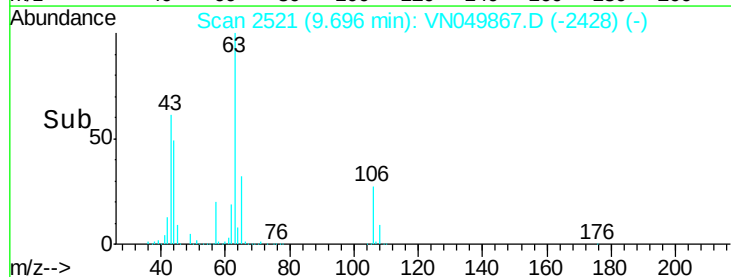
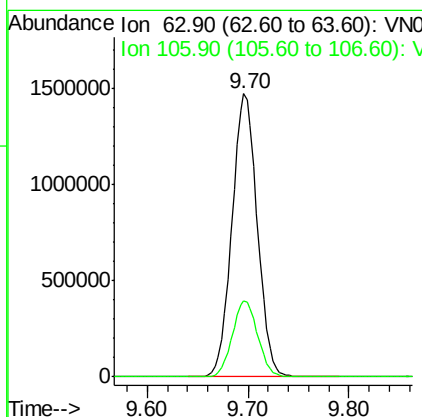
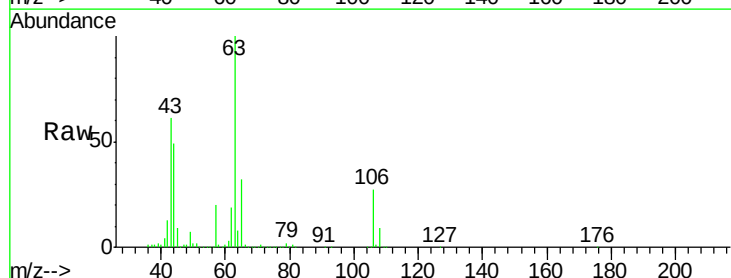
Manual Integrations
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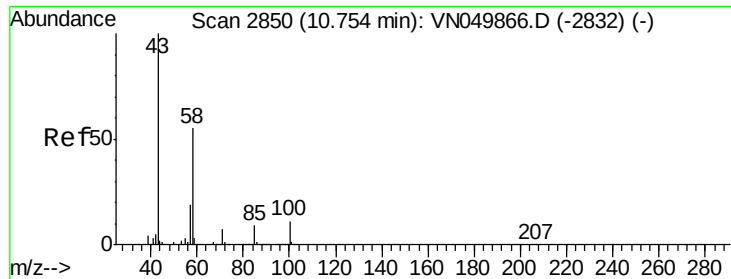
MMDadoda
 7/19/2018 4:28:55 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 593.64 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion: 63 Resp: 2564835
 Ion Ratio Lower Upper
 63 100
 106 27.0 21.8 32.8





#59

2-Hexanone

Concen: 527.17 ug/l

RT: 10.75 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 2734823

Ion Ratio Lower Upper

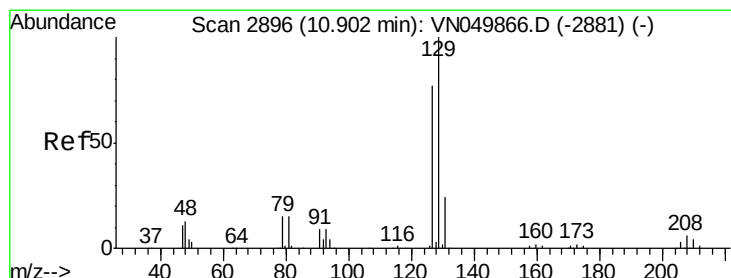
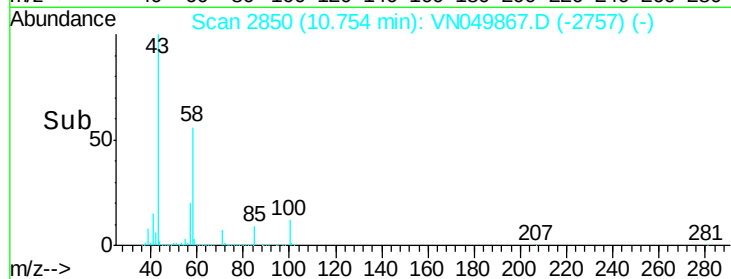
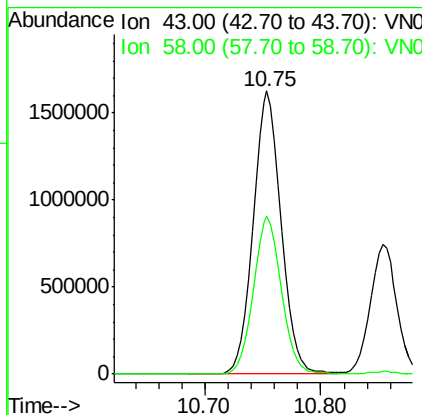
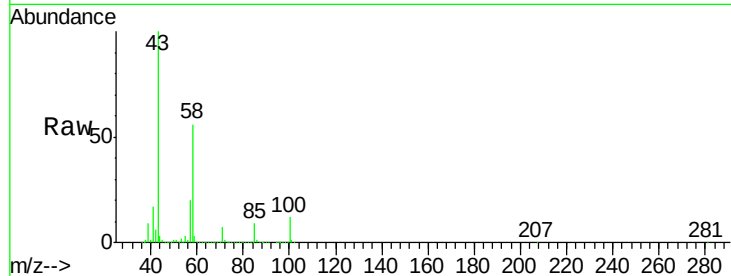
43 100

58 55.9 27.8 83.4

Manual Integrations
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#60

Dibromochloromethane

Concen: 106.82 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VN049867.D

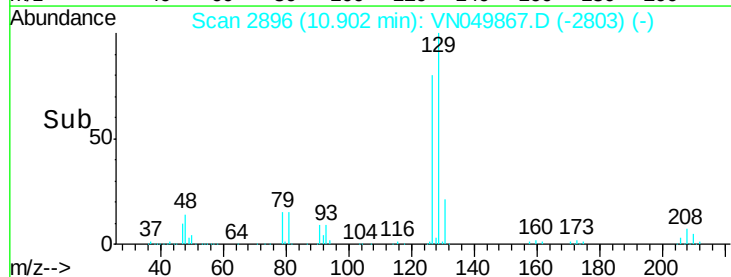
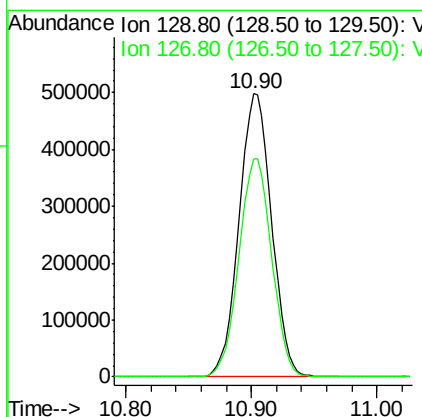
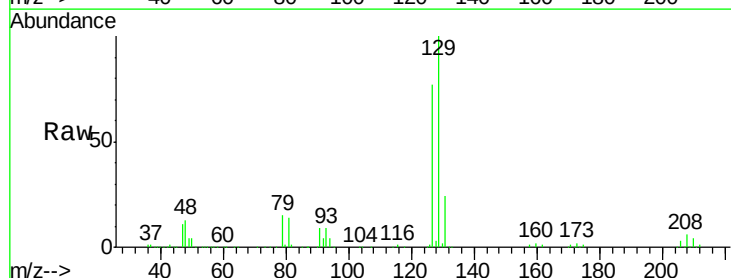
Acq: 18 Jul 2018 12:00

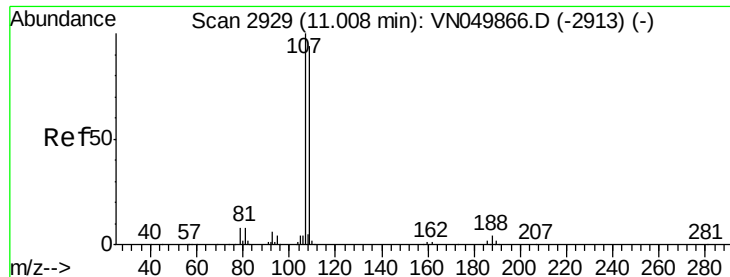
Tgt Ion: 129 Resp: 898860

Ion Ratio Lower Upper

129 100

127 77.6 38.3 114.9





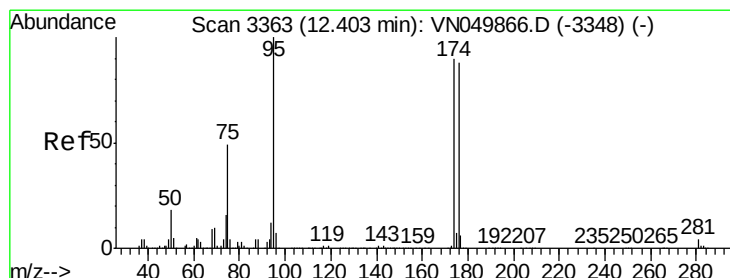
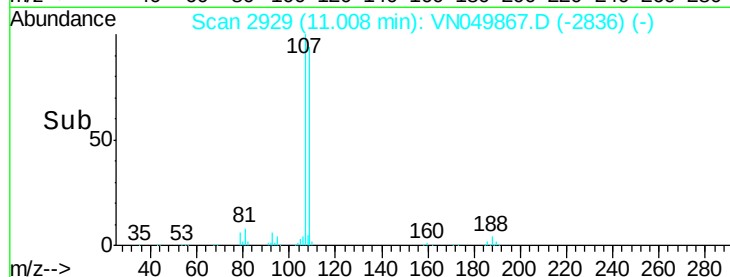
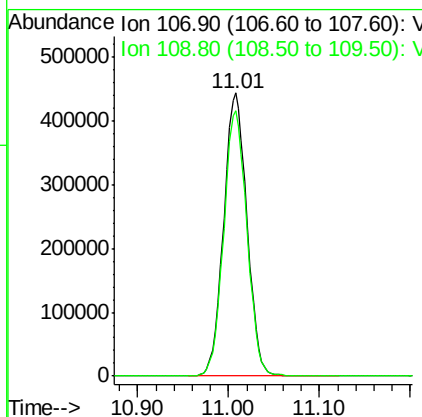
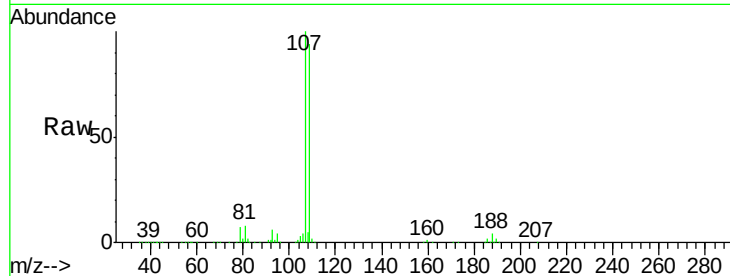
#61
 1,2-Dibromoethane
 Concen: 106.29 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.0	112.6

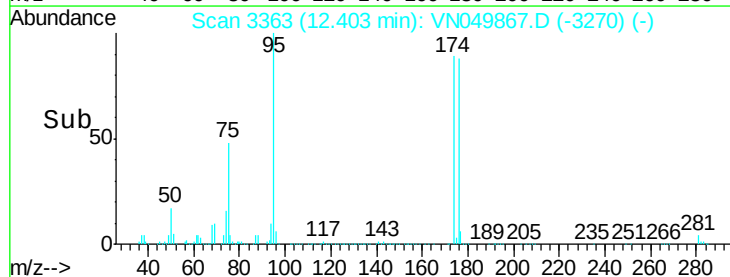
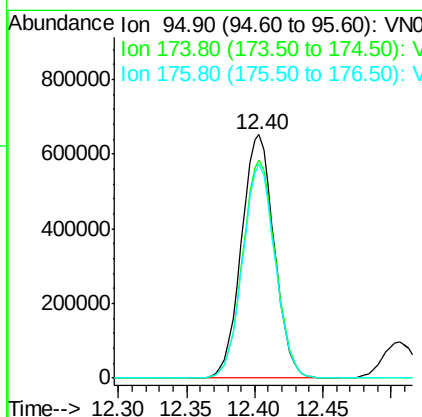
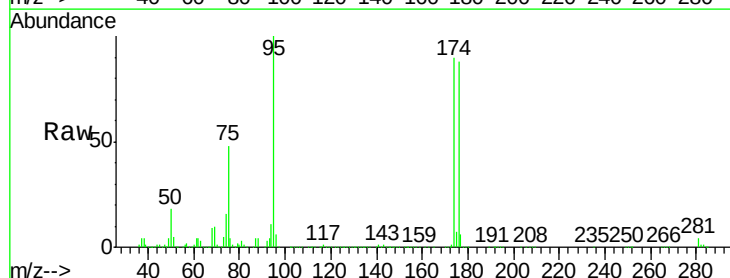
Manual Integrations
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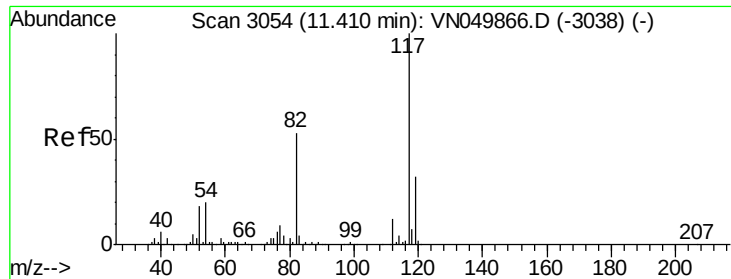
MMDadoda
 7/19/2018 4:28:55 PM



#62
 4-Bromofluorobenzene
 Concen: 116.14 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.8	0.0	179.6
176	87.1	0.0	174.0





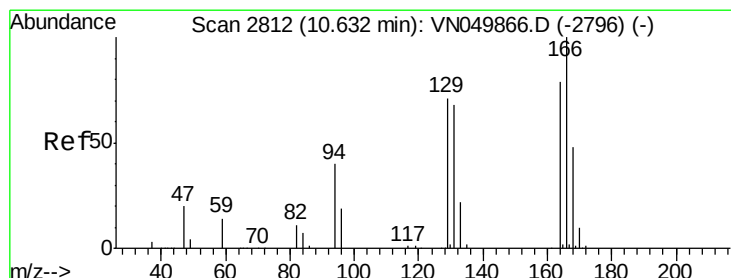
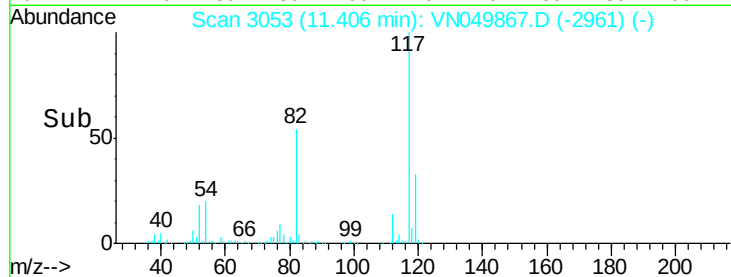
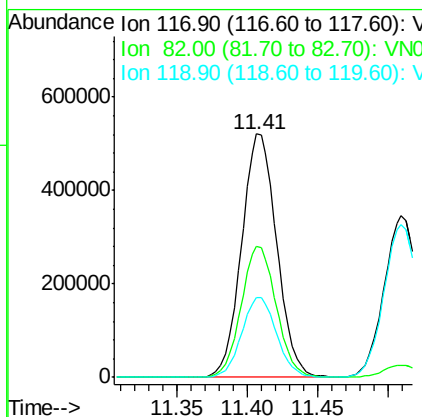
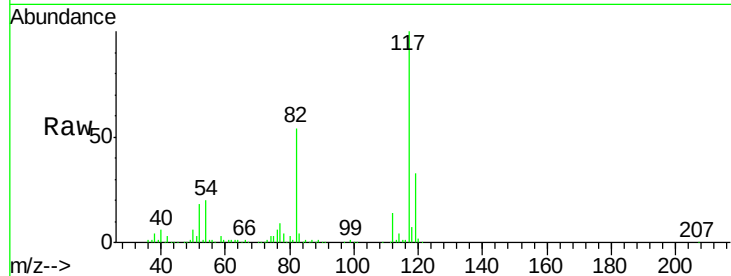
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
117	100	909786		
82	54.0		41.9	62.9
119	32.6		25.4	38.2

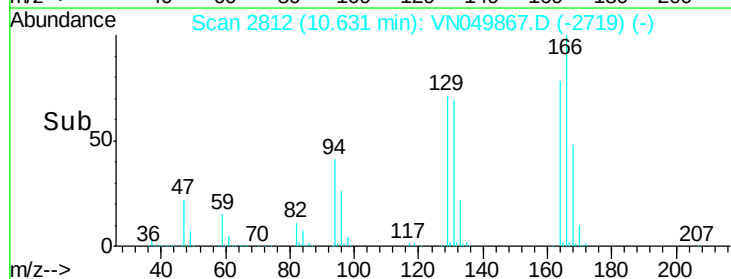
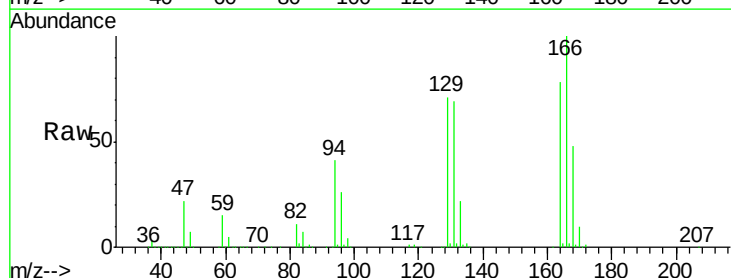
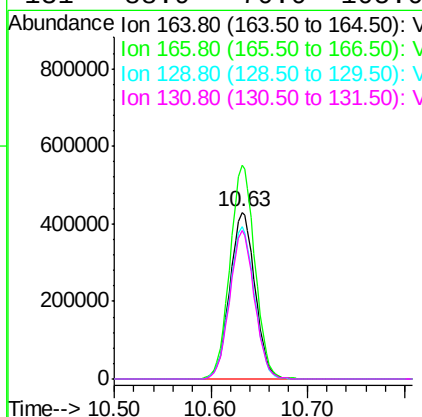
Manual Integrations
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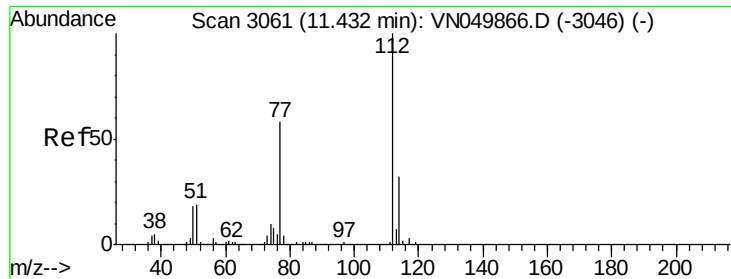
MMDadoda
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#64
Tetrachloroethene
Concen: 100.00 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	773736		
166	128.0		101.8	152.6
129	91.1		72.8	109.2
131	88.9		70.0	105.0





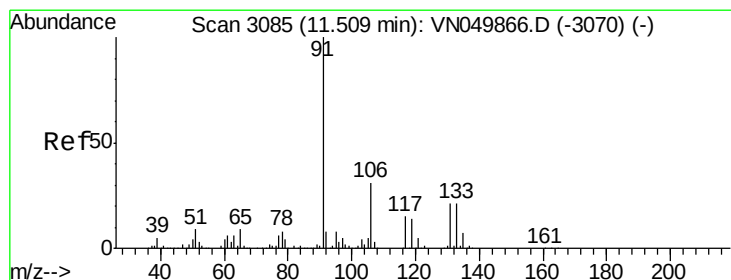
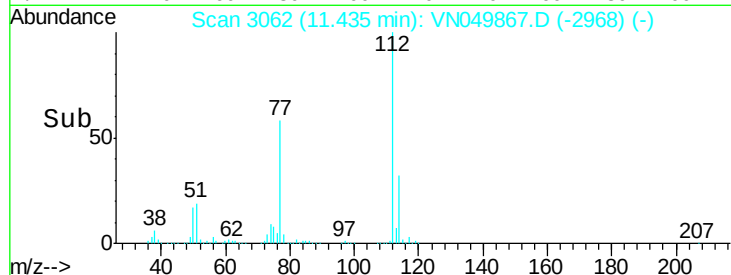
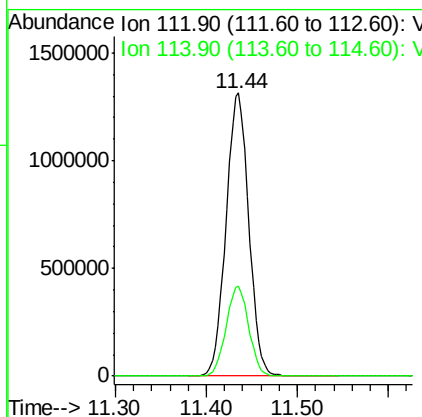
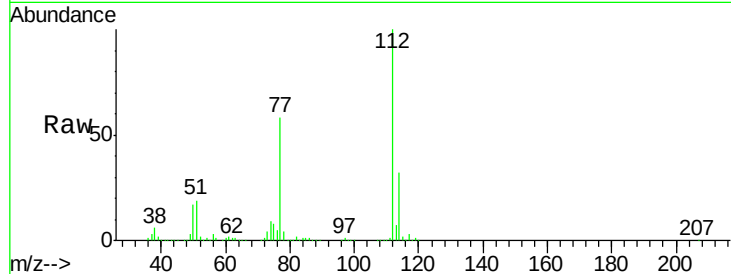
#65
Chlorobenzene
Concen: 105.36 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 2272781
Ion Ratio Lower Upper
112 100
114 31.9 25.4 38.0

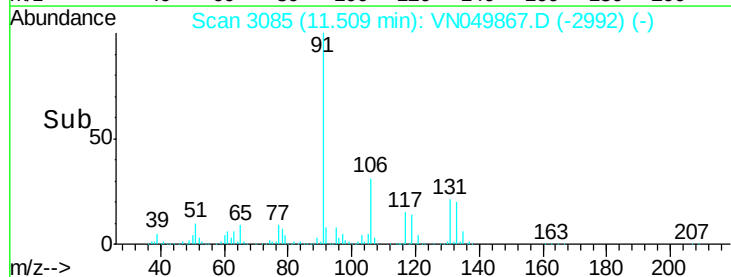
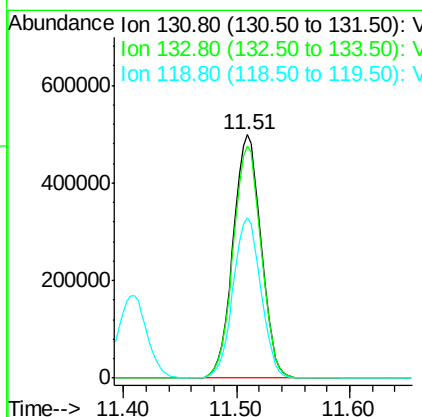
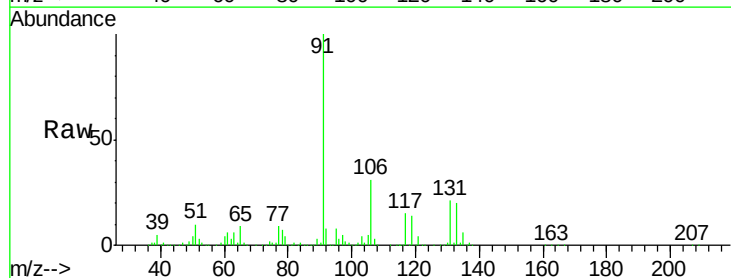
Manual Integrations
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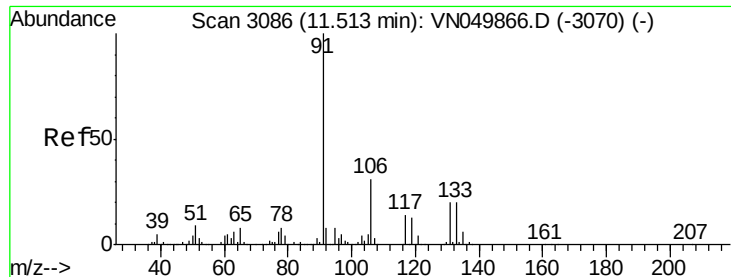
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#66
1,1,1,2-Tetrachloroethane
Concen: 103.49 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion:131 Resp: 856980
Ion Ratio Lower Upper
131 100
133 95.7 47.5 142.6
119 65.7 33.1 99.3





#67

Ethyl Benzene

Concen: 115.78 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 4014657

Ion Ratio Lower Upper

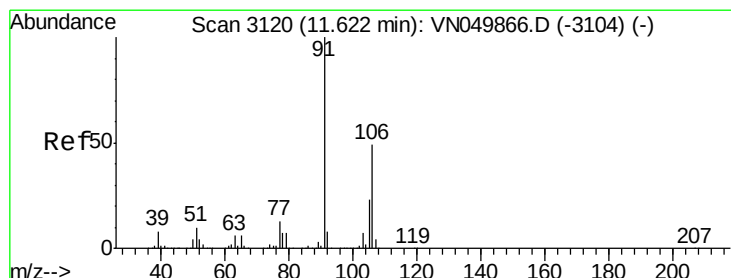
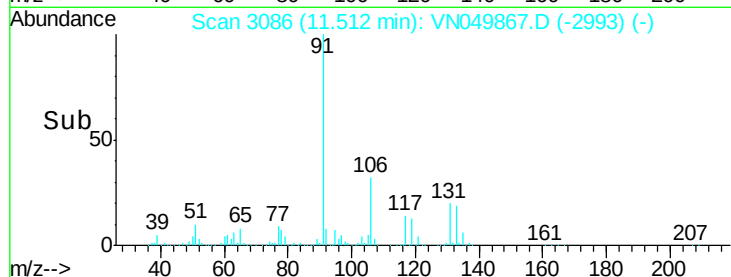
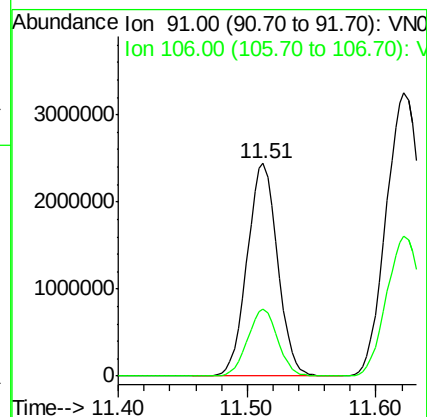
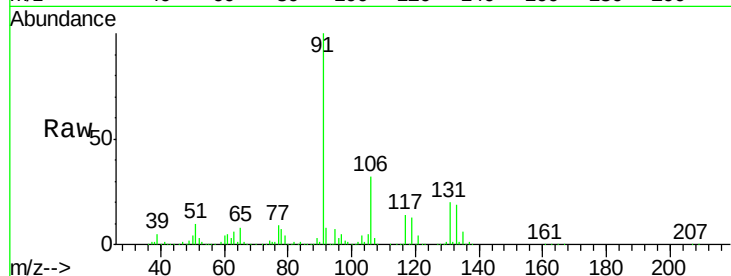
91 100

106 31.6 24.8 37.2

Manual Integrations
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#68

m/p-Xylenes

Concen: 233.38 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN049867.D

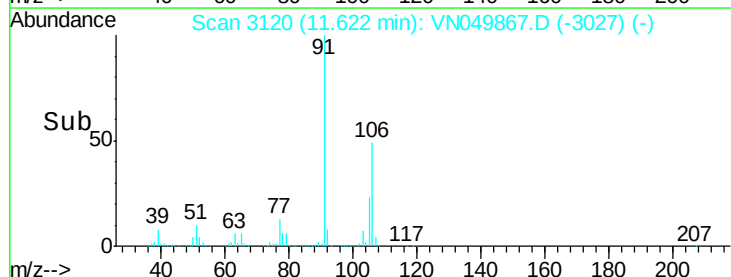
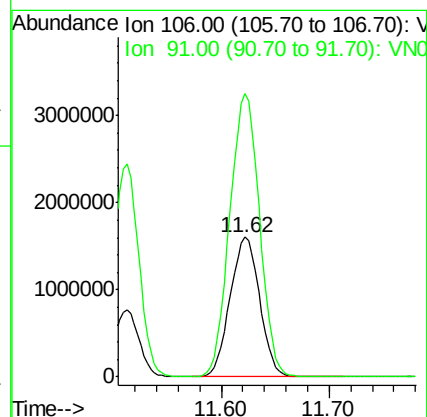
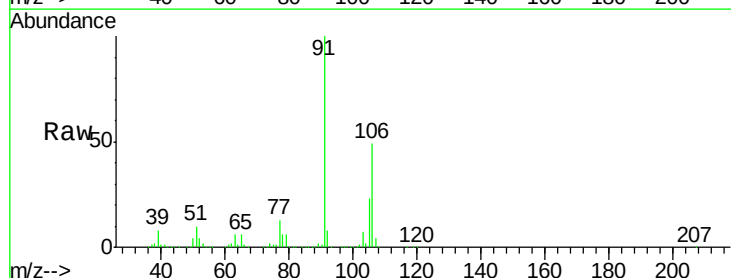
Acq: 18 Jul 2018 12:00

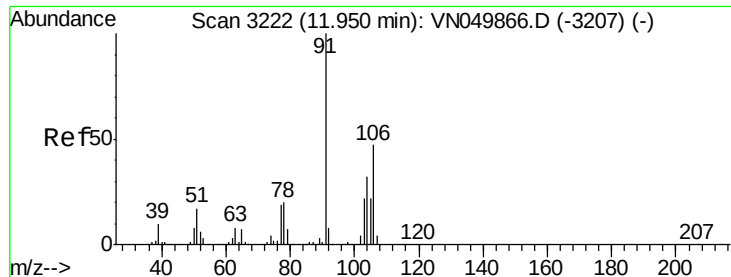
Tgt Ion: 106 Resp: 3070178

Ion Ratio Lower Upper

106 100

91 203.8 163.4 245.2





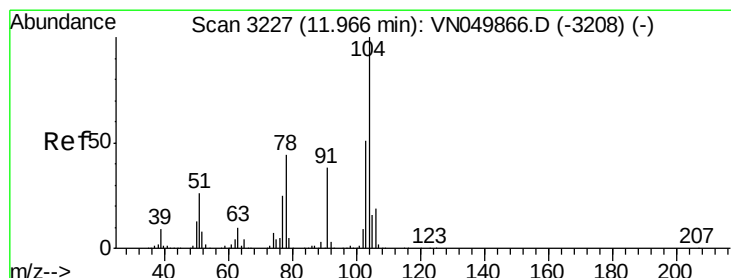
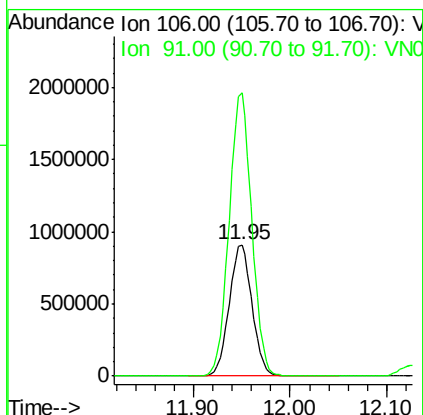
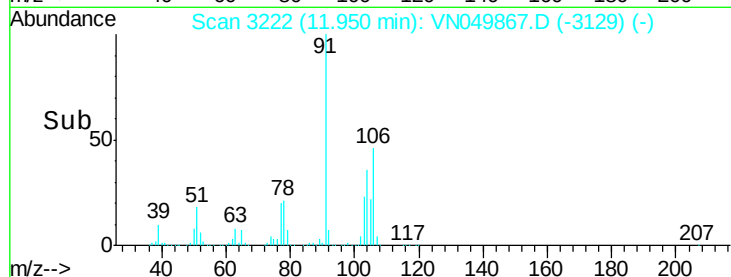
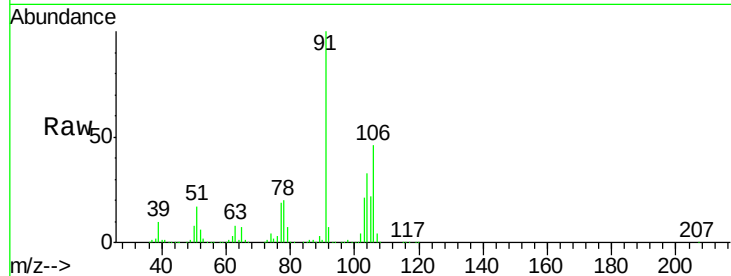
#69
o-Xylene
Concen: 118.47 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:106 Resp: 1486088
Ion Ratio Lower Upper
106 100
91 214.6 108.7 326.1

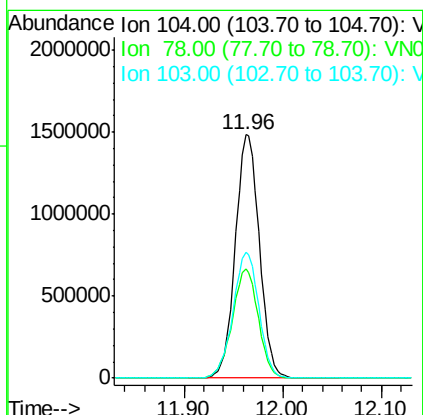
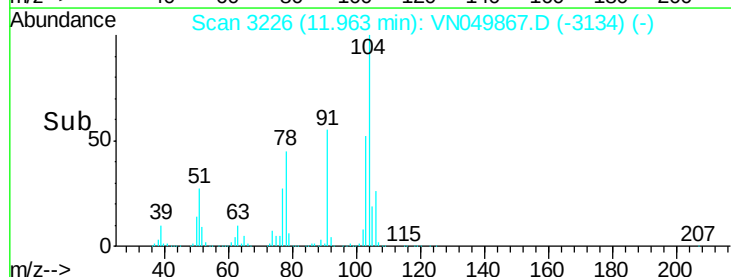
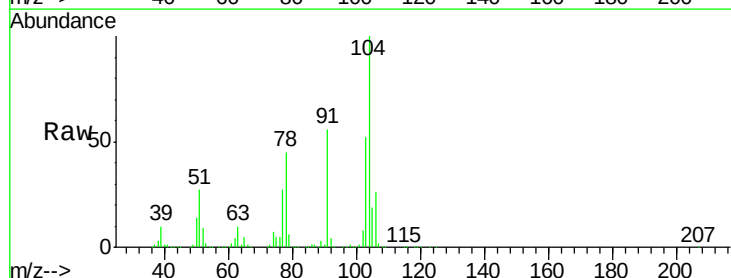
Manual Integrations
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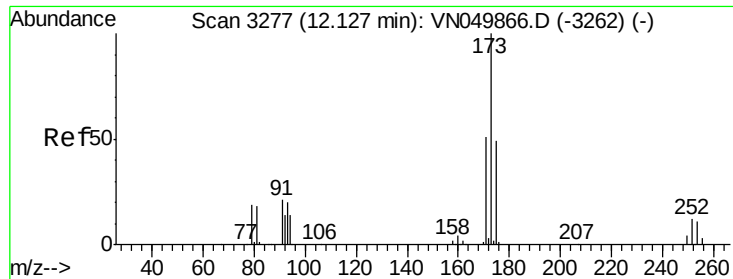
MMDadoda
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#70
Styrene
Concen: 123.66 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion:104 Resp: 2514555
Ion Ratio Lower Upper
104 100
78 48.7 39.2 58.8
103 55.9 44.6 67.0





#71

Bromoform

Concen: 105.10 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:173 Resp: 670356

Ion Ratio Lower Upper

173 100

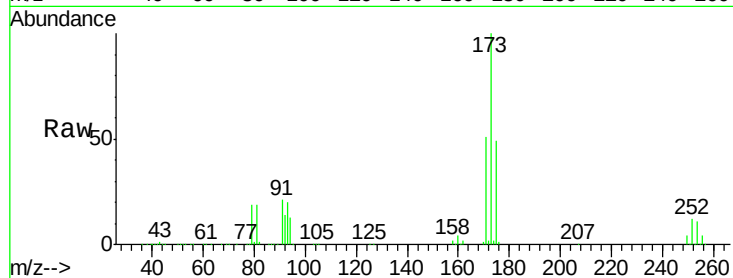
175 48.6 24.6 73.8

254 0.1 0.2 0.2#

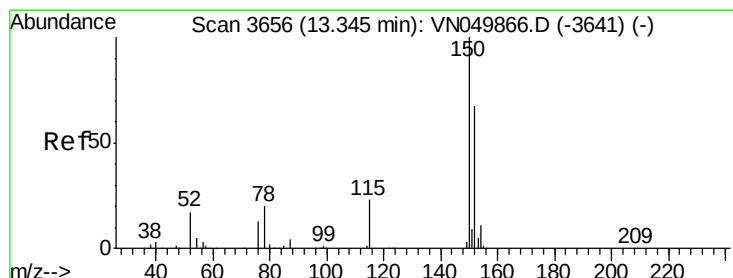
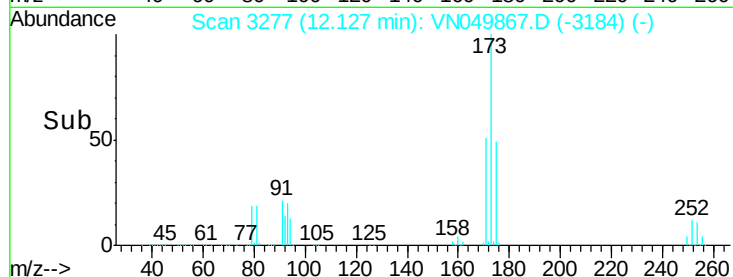
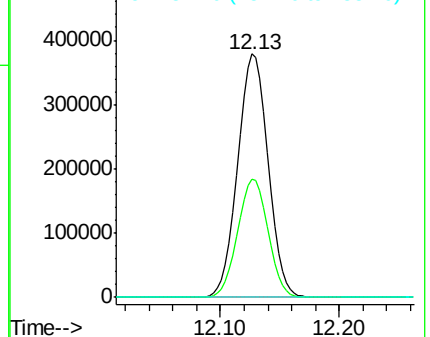
Manual Integrations
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

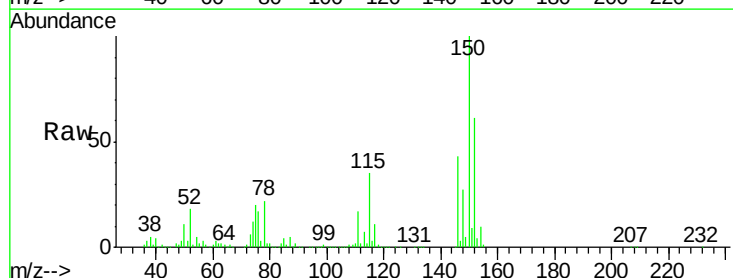
Tgt Ion:152 Resp: 513076

Ion Ratio Lower Upper

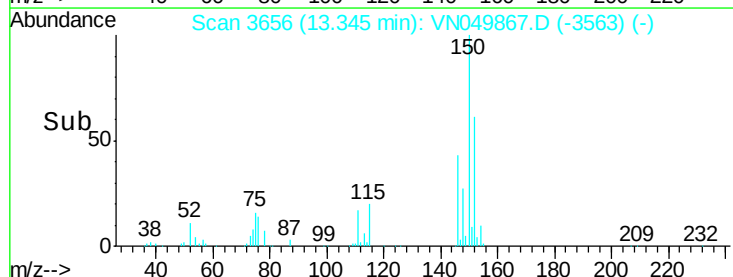
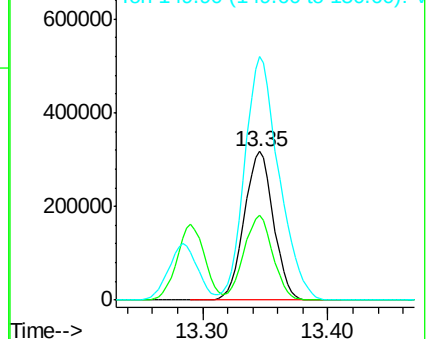
152 100

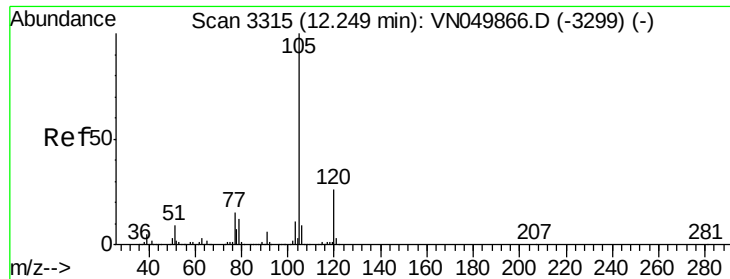
115 56.6 28.1 84.2

150 192.8 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: 107.22 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:105 Resp: 3983490

Ion Ratio Lower Upper

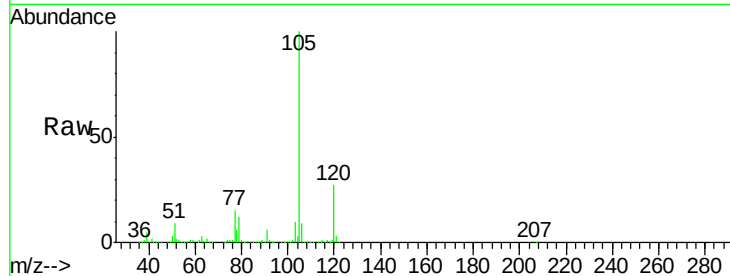
105 100

120 26.5 13.3 39.8

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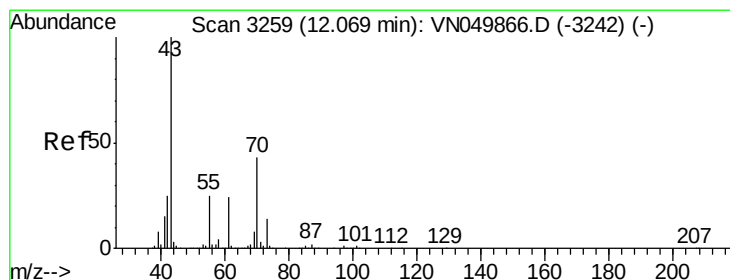
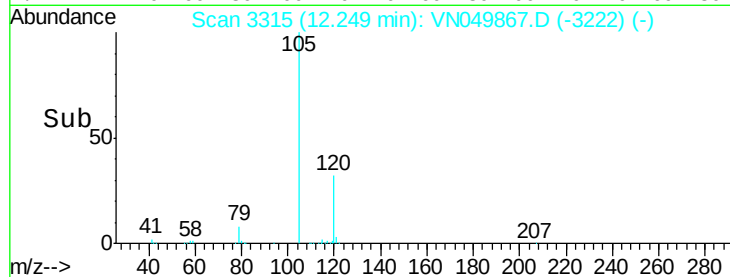
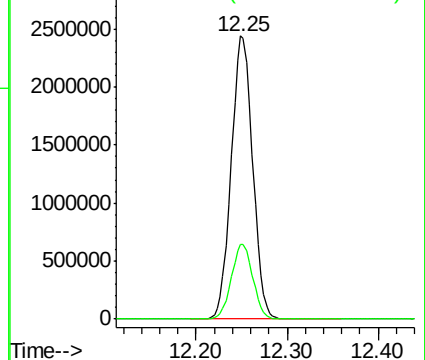
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 103.26 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Tgt Ion: 43 Resp: 1267637

Ion Ratio Lower Upper

43 100

70 43.3 34.8 52.2

55 25.7 20.9 31.3

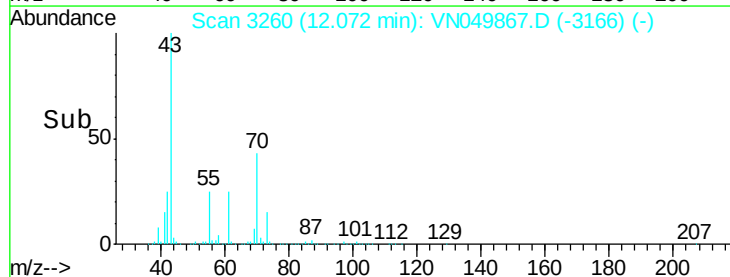
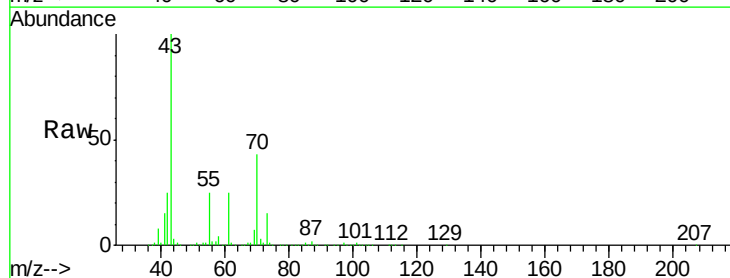
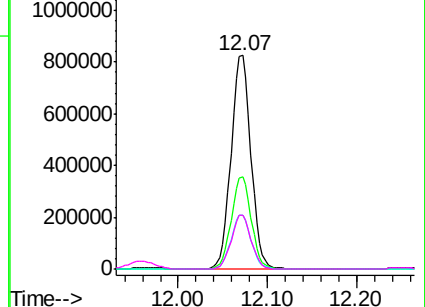
61 25.0 19.9 29.9

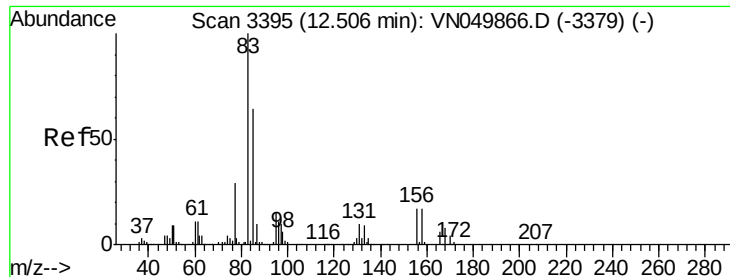
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 88.22 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1051182

Ion Ratio Lower Upper

83 100

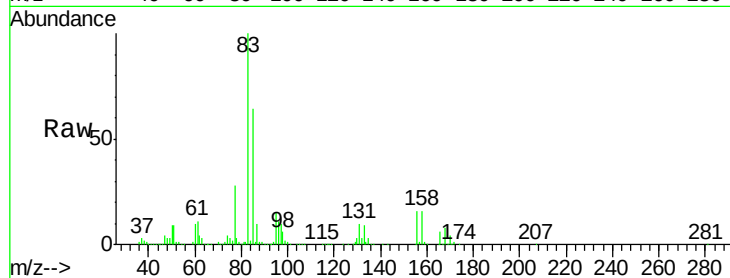
131 10.3 5.2 15.6

85 64.1 32.5 97.4

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN049866.D (-3379) (-)

Ion 130.80 (130.50 to 131.50): VN049866.D (-3379) (-)

Ion 84.90 (84.60 to 85.60): VN049866.D (-3379) (-)

12.51

600000

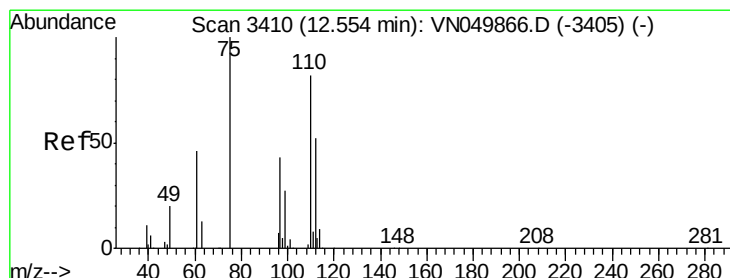
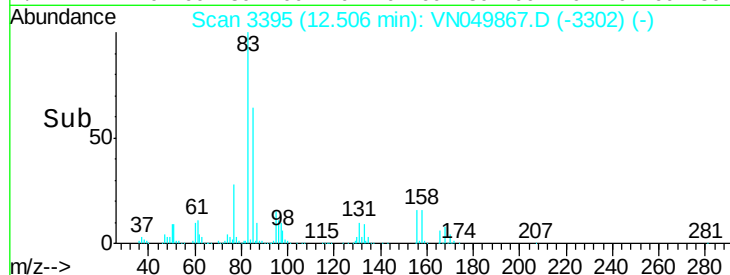
400000

200000

0

12.45 12.50 12.55

Time-->



#76

1,2,3-Trichloropropane

Concen: 91.31 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN049867.D

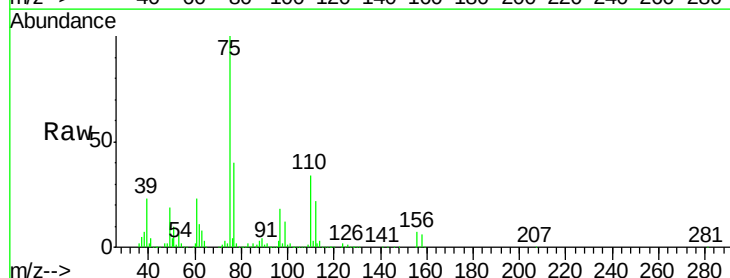
Acq: 18 Jul 2018 12:00

Tgt Ion: 75 Resp: 916682

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN049866.D (-3405) (-)

Ion 77.00 (76.70 to 77.70): VN049866.D (-3405) (-)

1000000

800000

600000

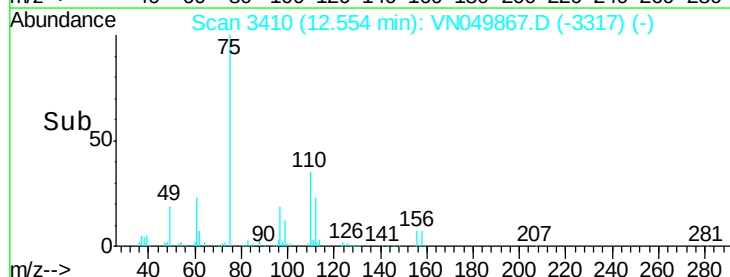
400000

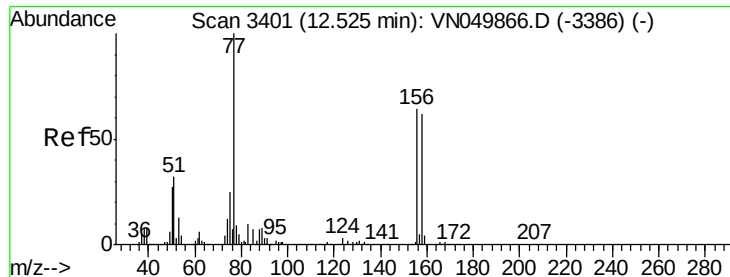
200000

0

12.50 12.55 12.60

Time-->





#77

Bromobenzene

Concen: 101.83 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:156 Resp: 1037117

Ion Ratio Lower Upper

156 100

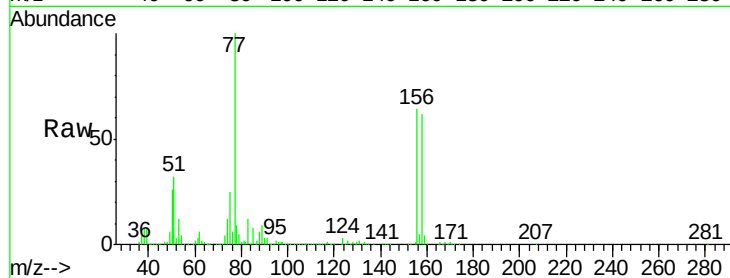
77 184.8 90.2 270.6

158 97.6 49.1 147.3

Manual Integrations
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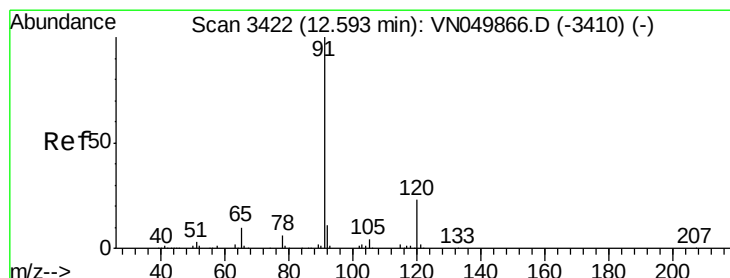
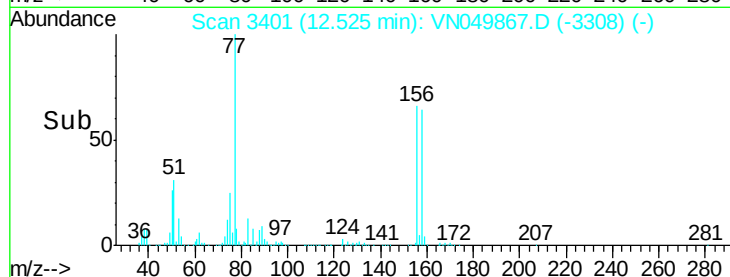
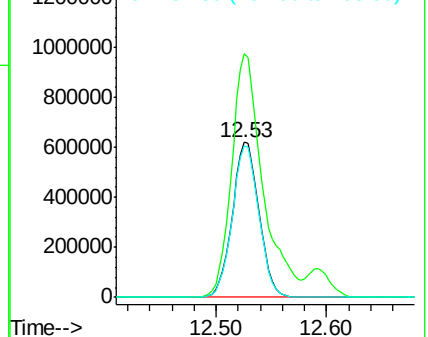
7/19/2018 4:28:55 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 110.31 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN049867.D

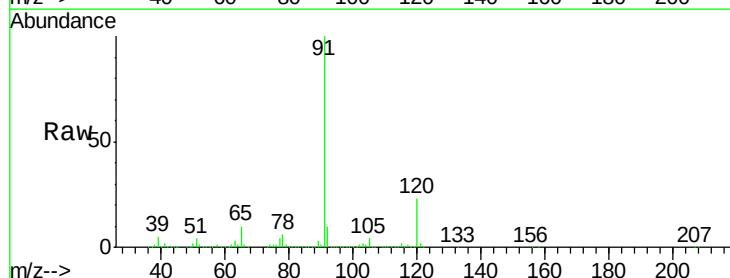
Acq: 18 Jul 2018 12:00

Tgt Ion: 91 Resp: 4611672

Ion Ratio Lower Upper

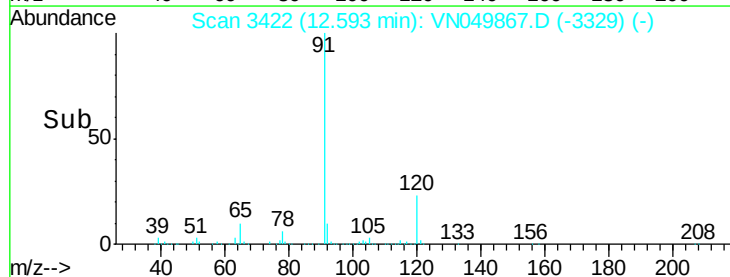
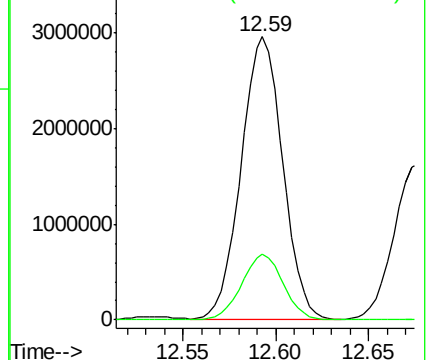
91 100

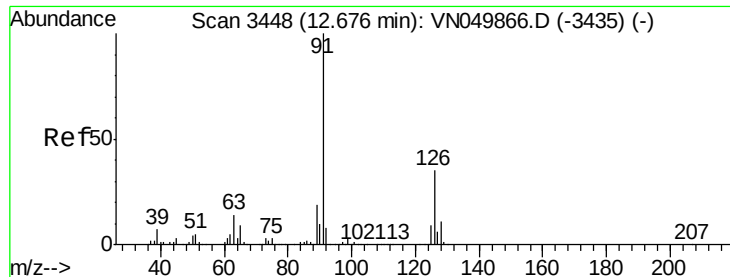
120 23.1 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 105.31 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 2718248

Ion Ratio Lower Upper

91 100

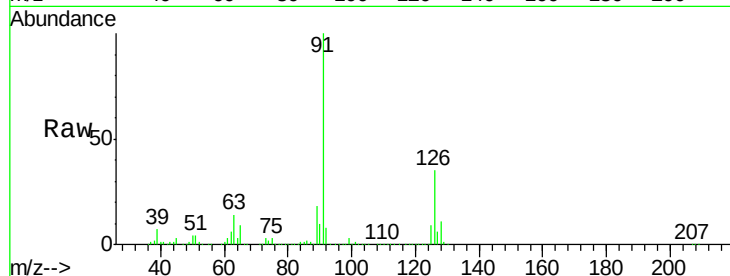
126 35.0 17.5 52.5

Manual Integrations

APPROVED

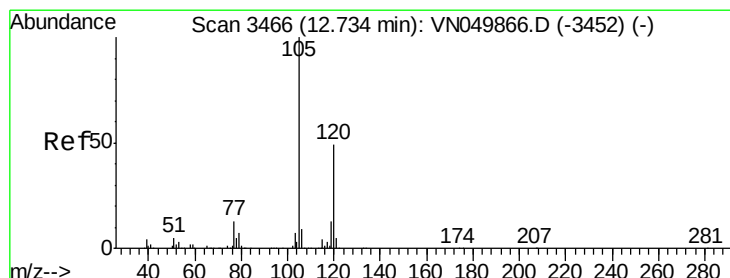
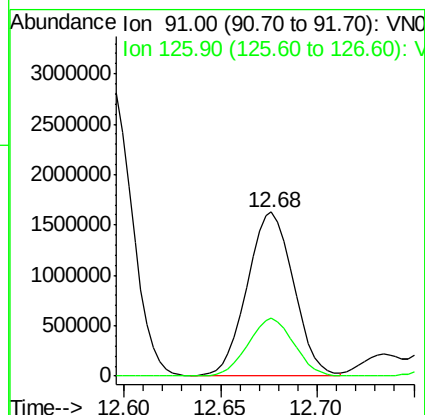
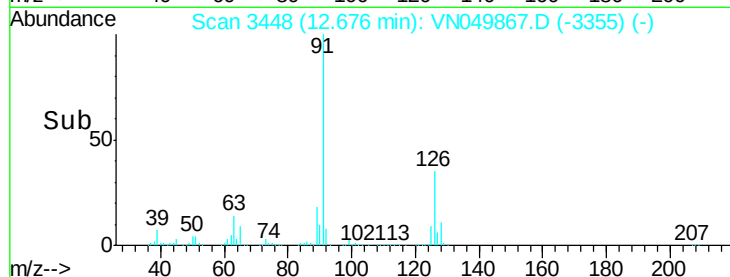
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VN049866.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN049866.D (-3435) (-)



#80

1,3,5-Trimethylbenzene

Concen: 112.63 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049867.D

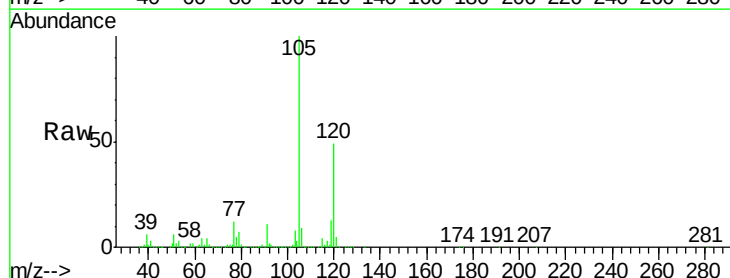
Acq: 18 Jul 2018 12:00

Tgt Ion:105 Resp: 3279322

Ion Ratio Lower Upper

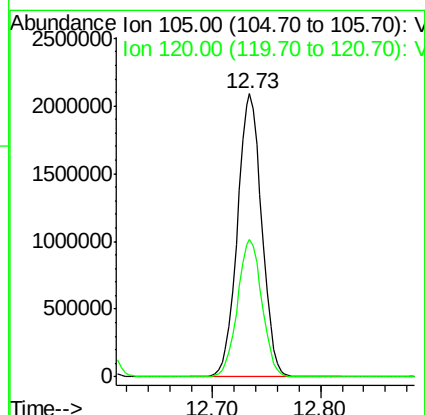
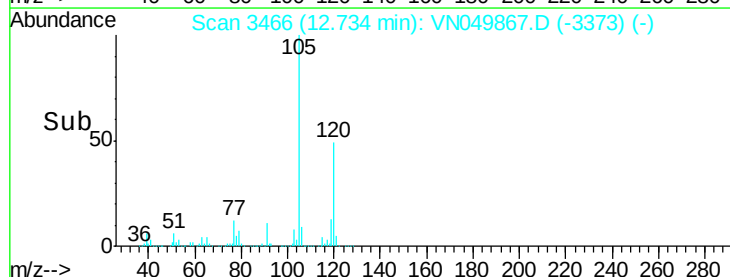
105 100

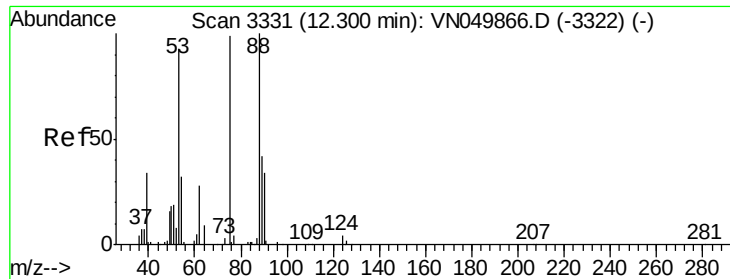
120 48.7 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049866.D (-3452) (-)

Ion 120.00 (119.70 to 120.70): VN049866.D (-3452) (-)





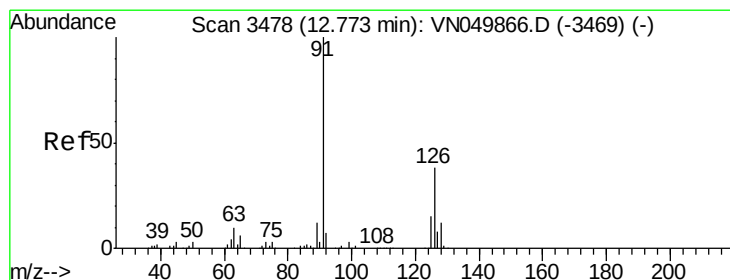
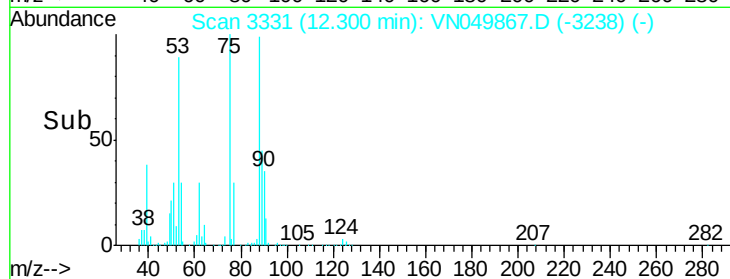
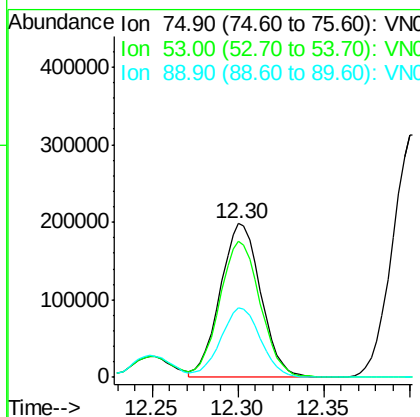
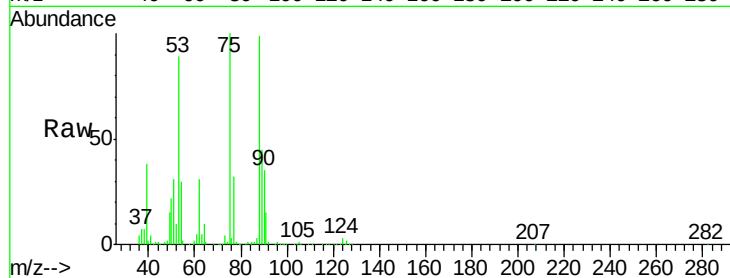
#81
trans-1,4-Dichloro-2-butene
Concen: 105.84 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion	Ratio	Lower	Upper
75	100		
53	89.6	73.9	110.9
89	45.2	35.9	53.9

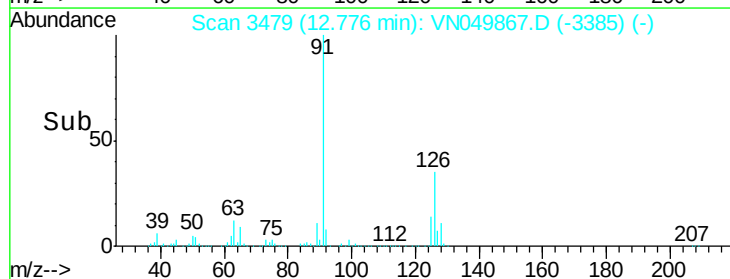
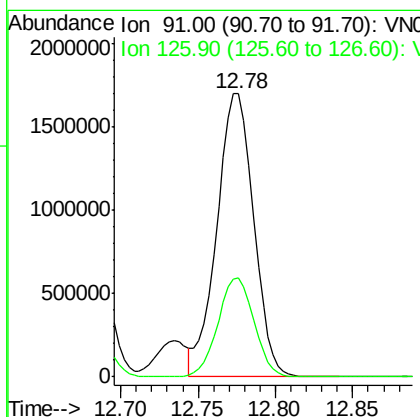
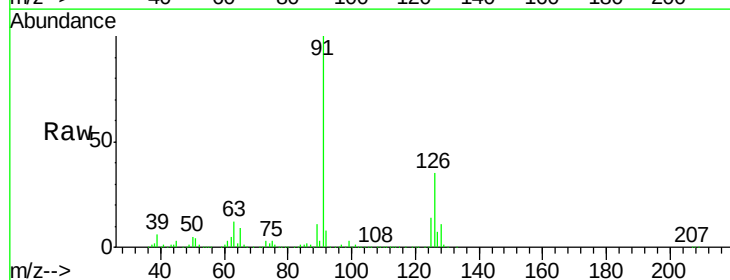
Manual Integrations
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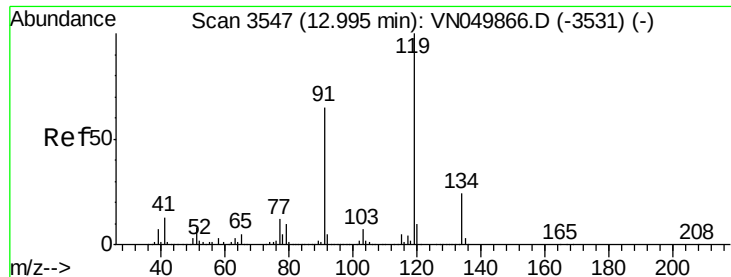
MMDadoda
7/19/2018 4:28:55 PM



#82
4-Chlorotoluene
Concen: 109.86 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.2	51.6





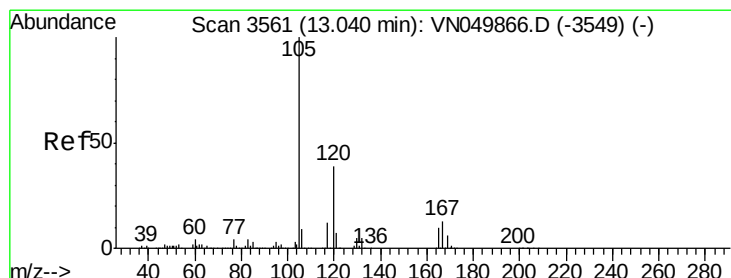
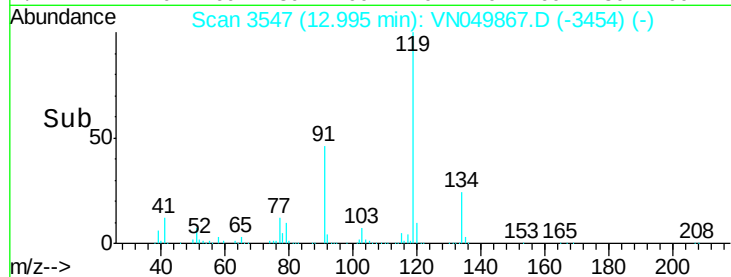
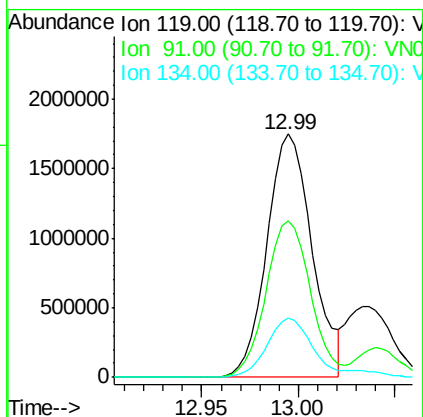
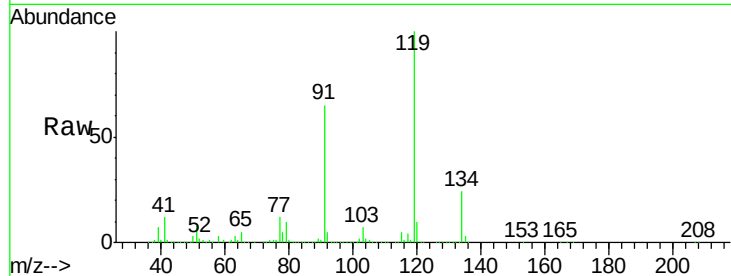
#83
 tert-Butylbenzene
 Concen: 111.74 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:119 Resp: 2851429
 Ion Ratio Lower Upper
 119 100
 91 63.4 32.0 96.2
 134 26.1 12.8 38.4

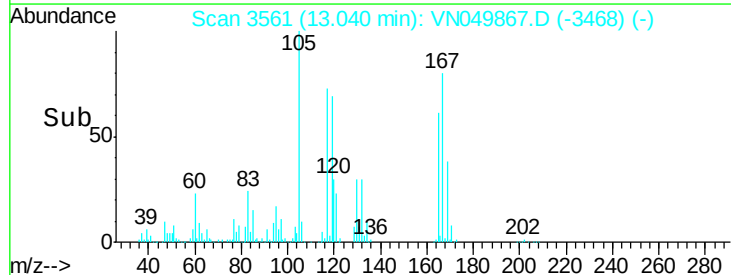
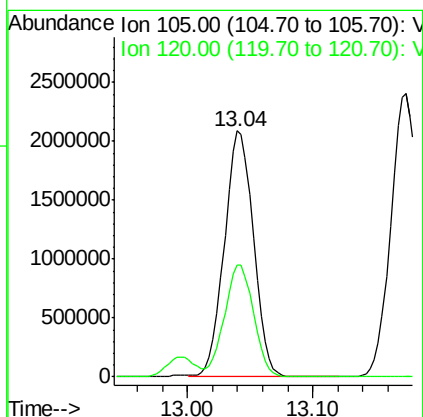
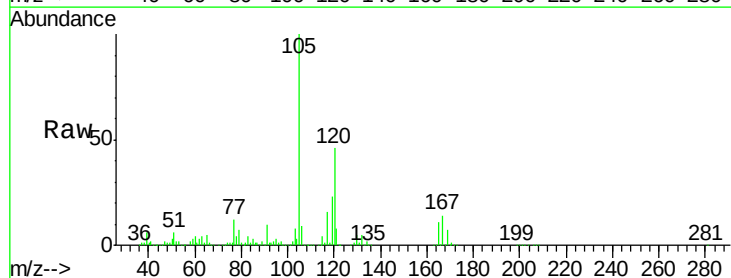
Manual Integrations
 APPROVED

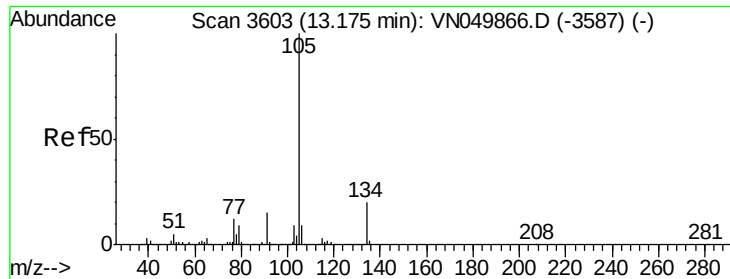
MMDadoda
 7/19/2018 4:28:55 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 112.79 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion:105 Resp: 3348602
 Ion Ratio Lower Upper
 105 100
 120 45.6 22.7 68.1





#85

sec-Butylbenzene

Concen: 111.20 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:105 Resp: 3817663

Ion Ratio Lower Upper

105 100

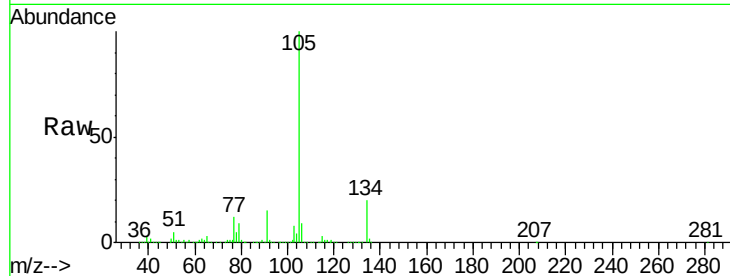
134 20.2 10.1 30.1

Manual Integrations

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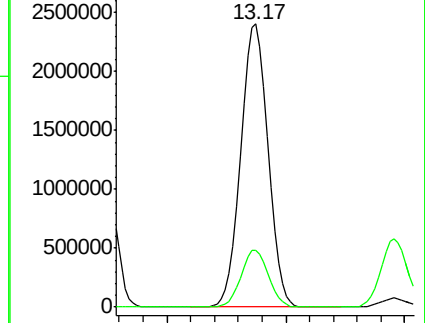
MMDadoda

7/19/2018 4:28:55 PM

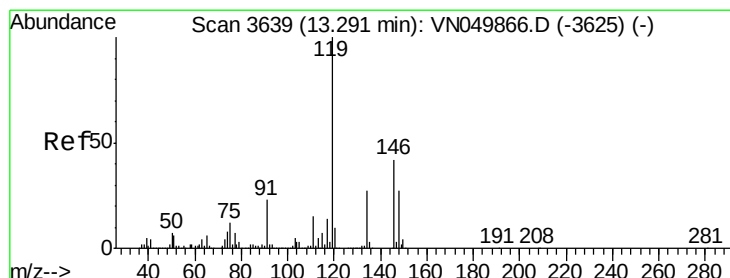
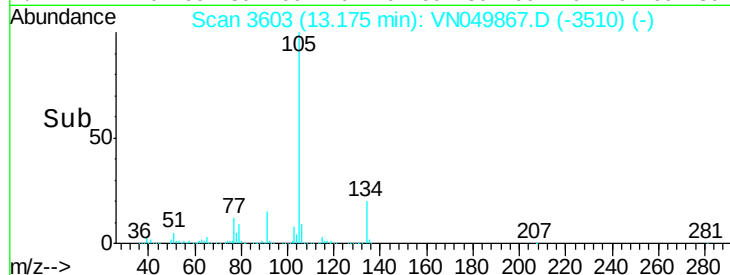


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 115.94 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

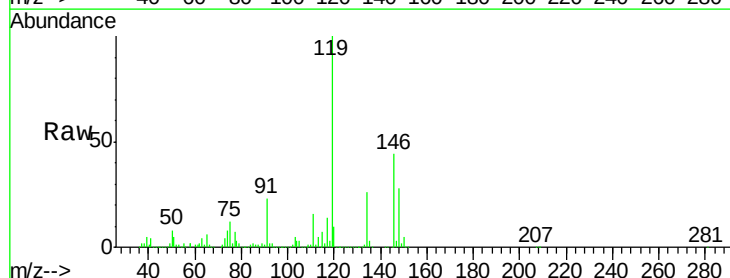
Tgt Ion:119 Resp: 3365225

Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.9

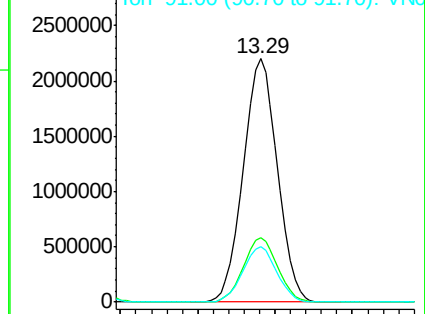
91 22.6 11.4 34.1



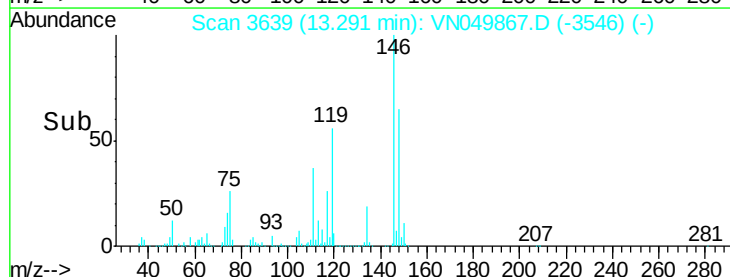
Abundance Ion 119.00 (118.70 to 119.70): V

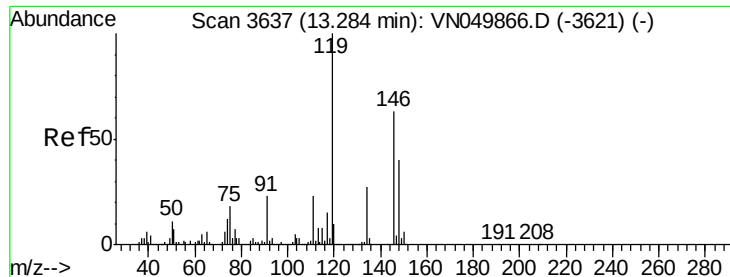
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





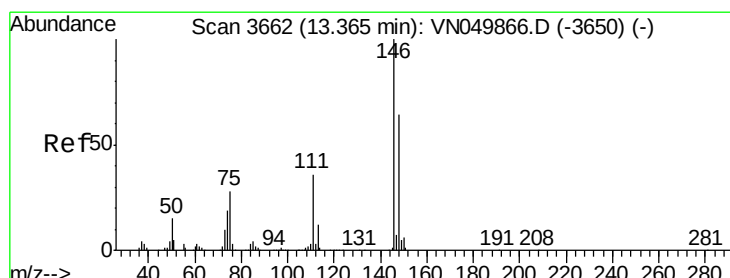
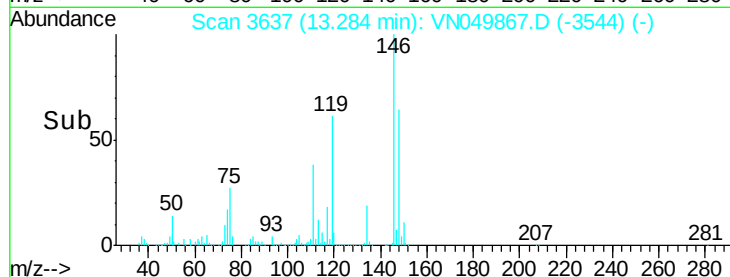
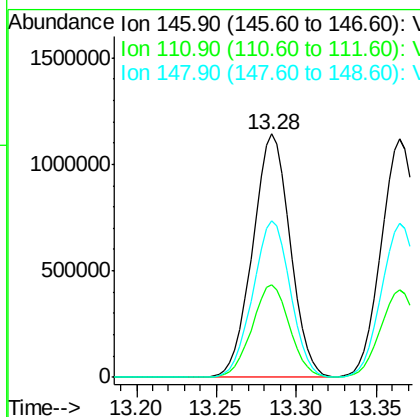
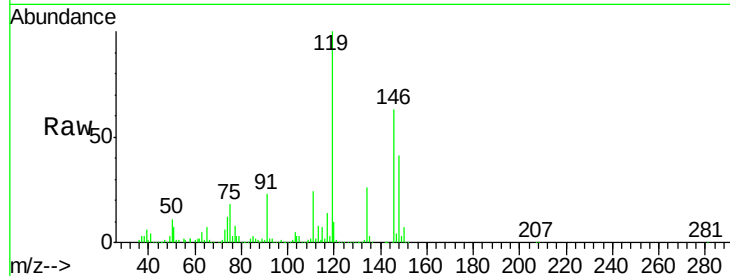
#87
 1,3-Dichlorobenzene
 Concen: 105.53 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.0	57.0
148	64.4	32.5	97.5

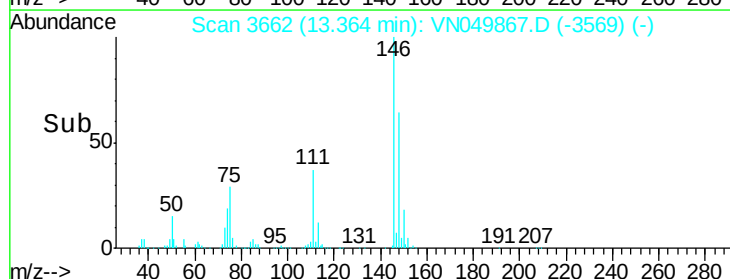
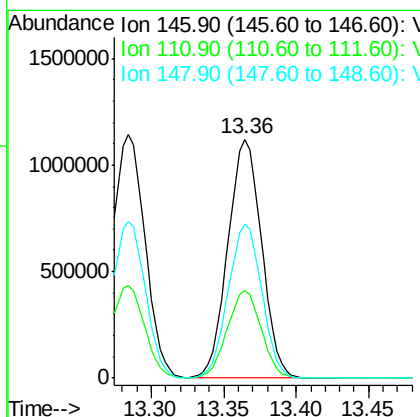
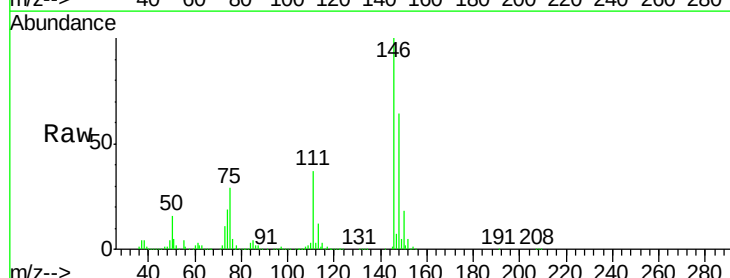
Manual Integrations
 APPROVED

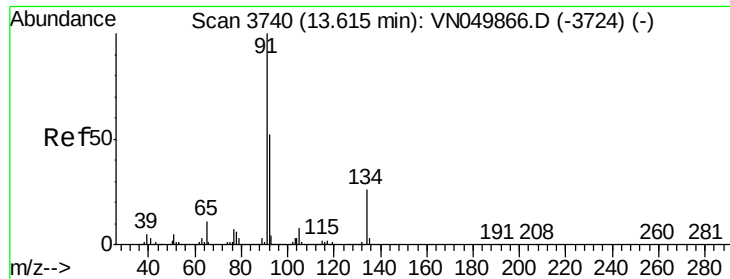
MMDadoda
 7/19/2018 4:28:55 PM



#88
 1,4-Dichlorobenzene
 Concen: 105.20 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.7	18.9	56.5
148	64.5	32.1	96.3





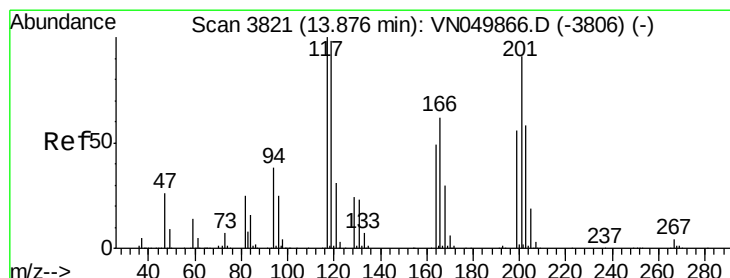
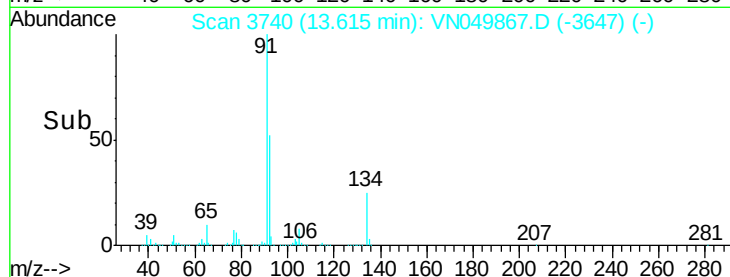
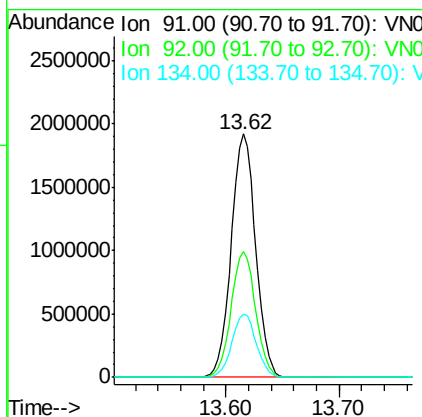
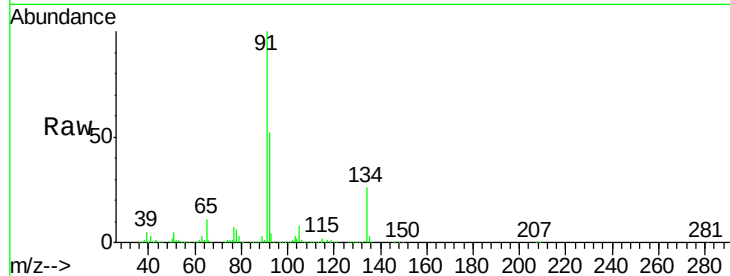
#89
n-Butylbenzene
Concen: 120.82 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.8	77.3
134	26.1	13.0	38.9

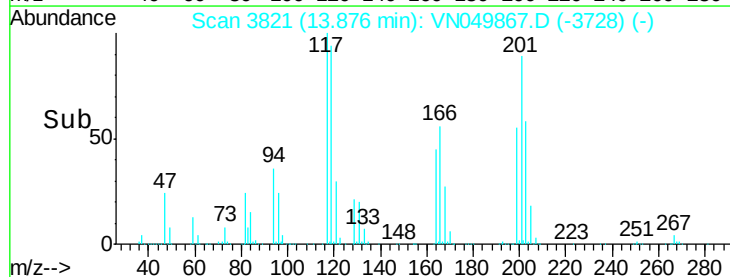
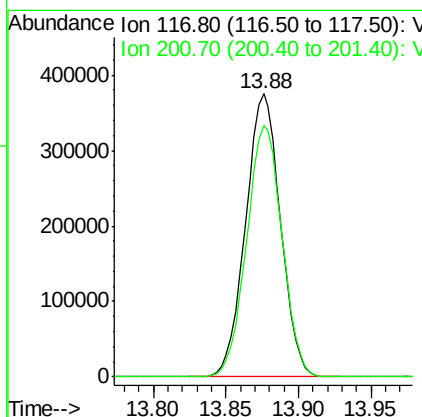
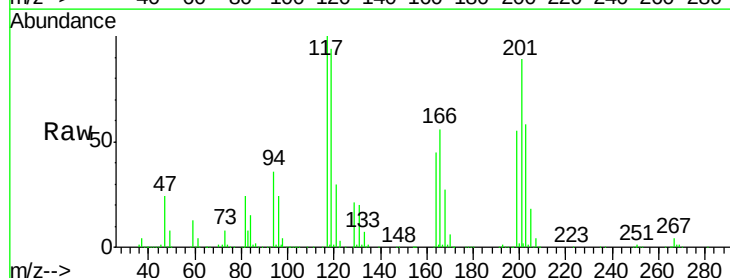
Manual Integrations
APPROVED

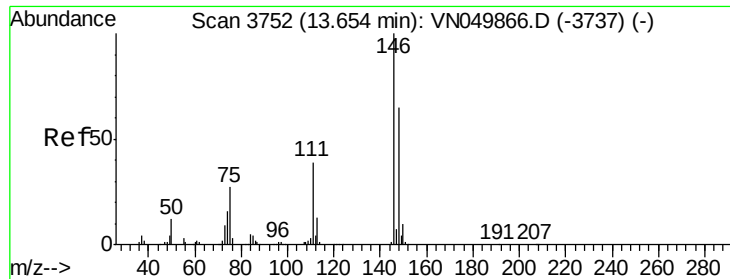
MMDadoda
7/19/2018 4:28:55 PM



#90
Hexachloroethane
Concen: 96.46 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.1	45.3	135.8





#91

1,2-Dichlorobenzene

Concen: 99.97 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 1779579

Ion Ratio Lower Upper

146 100

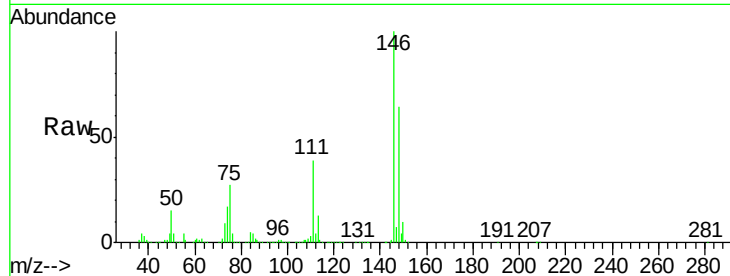
111 39.2 19.7 59.1

148 64.5 32.0 96.2

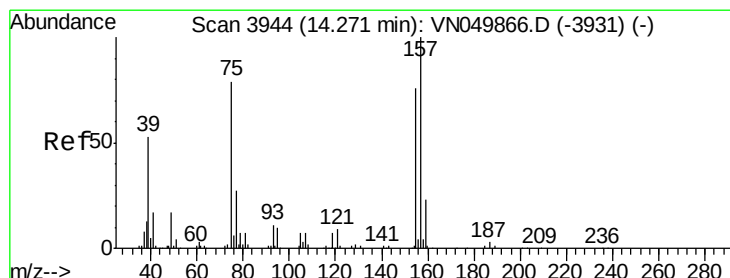
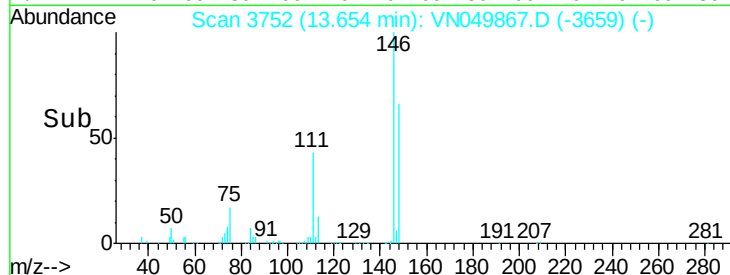
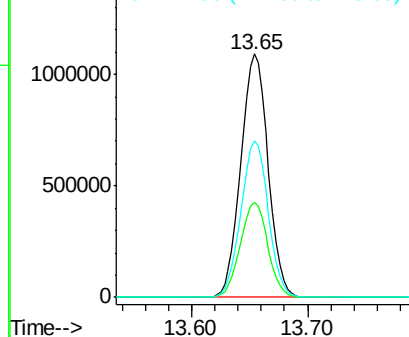
Manual Integrations
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 86.34 ug/l

RT: 14.27 min Scan# 3944

Delta R.T. -0.00 min

Lab File: VN049867.D

Acq: 18 Jul 2018 12:00

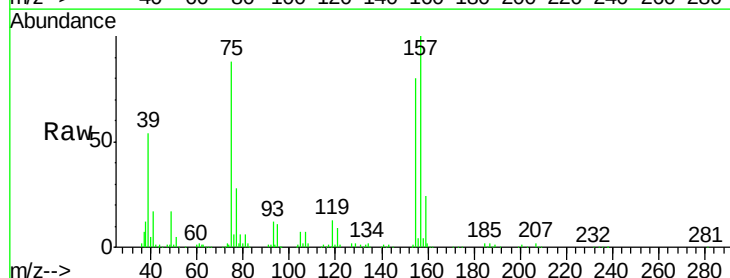
Tgt Ion: 75 Resp: 172443

Ion Ratio Lower Upper

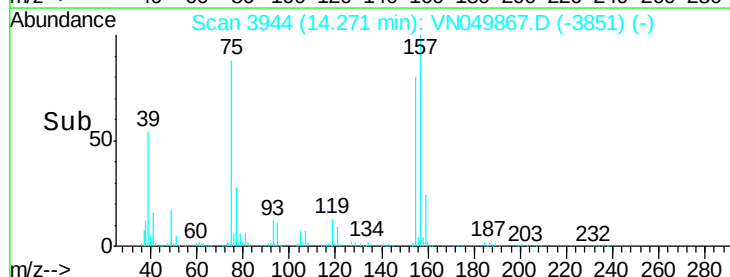
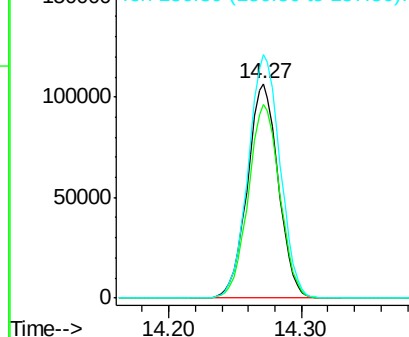
75 100

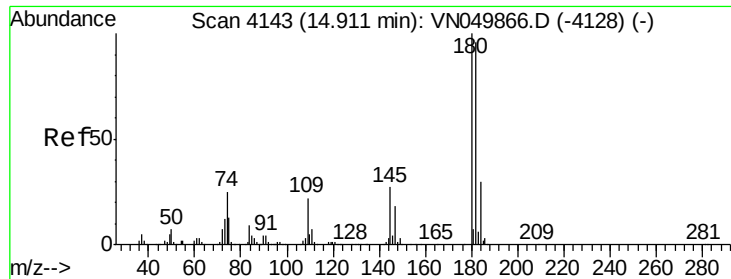
155 91.4 45.7 137.1

157 116.6 56.9 170.7



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





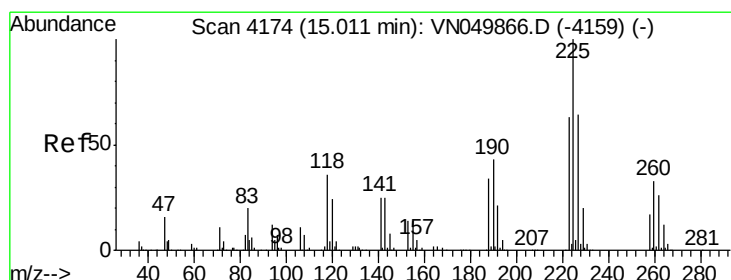
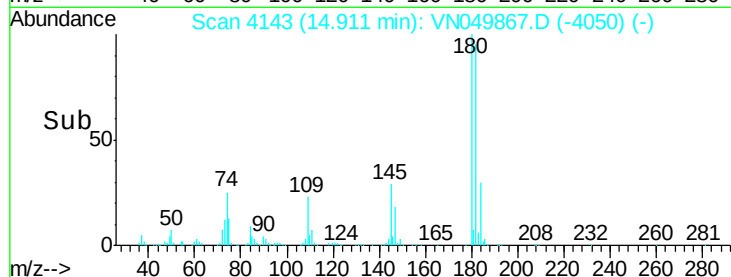
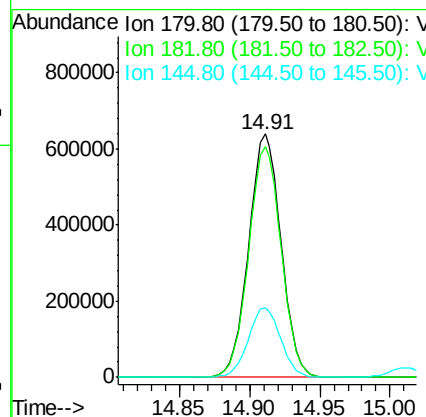
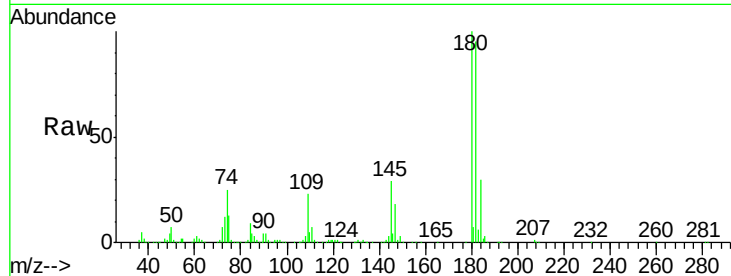
#93
 1,2,4-Trichlorobenzene
 Concen: 129.69 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	141.9
145	28.6	14.4	43.0

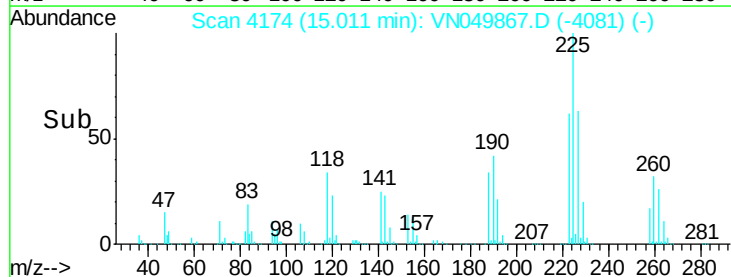
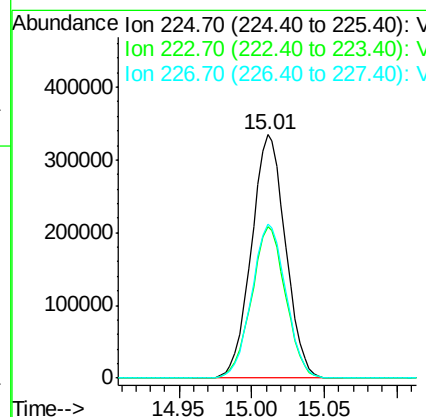
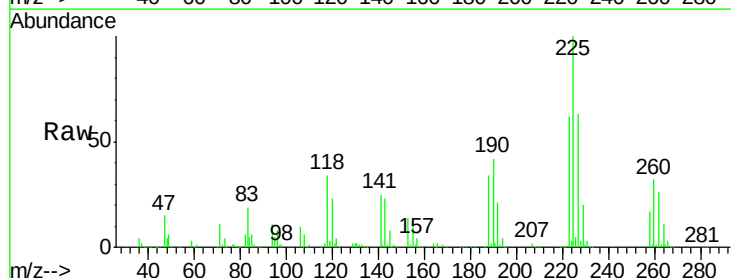
Manual Integrations
 APPROVED

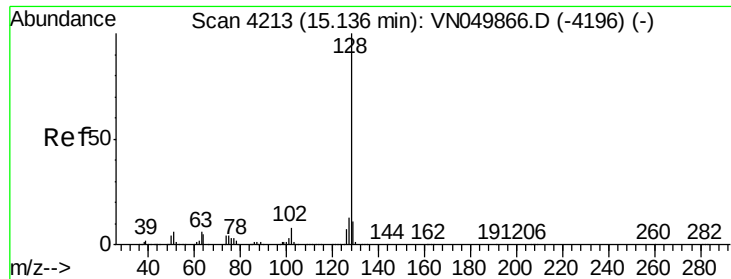
MMDadoda
 7/19/2018 4:28:55 PM



#94
 Hexachlorobutadiene
 Concen: 98.42 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049867.D
 Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.0	30.9	92.7
227	63.7	31.8	95.4





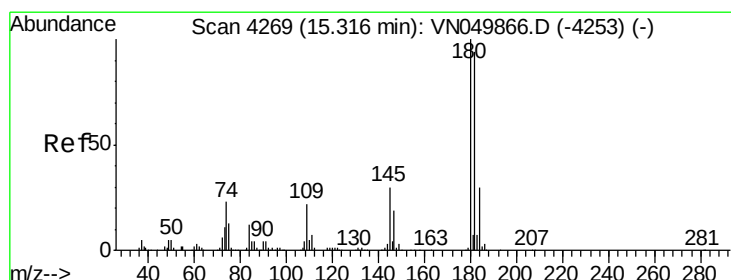
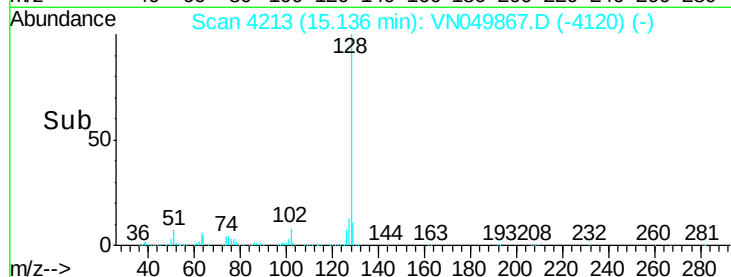
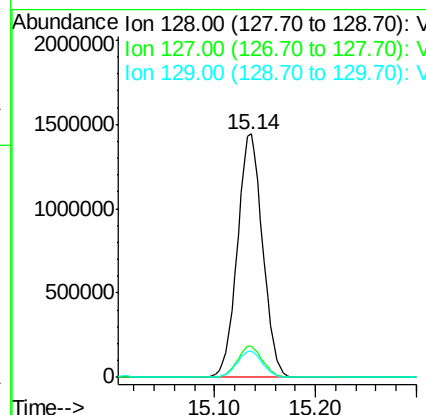
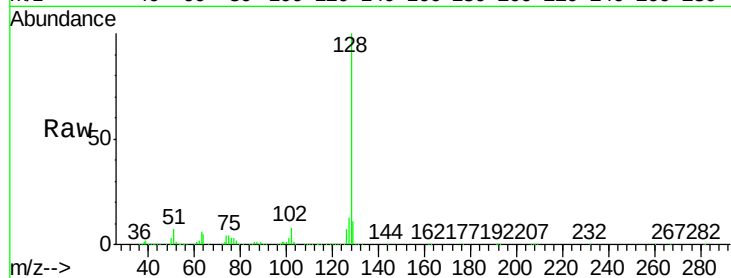
#95
Naphthalene
Concen: 132.11 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
7/19/2018 4:28:55 PM



#96
1,2,3-Trichlorobenzene
Concen: 120.30 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN049867.D
Acq: 18 Jul 2018 12:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.4	142.2
145	30.1	15.2	45.6

