

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082118\
 Data File : VN050783.D
 Acq On : 21 Aug 2018 11:34
 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
 8/22/2018 11:18:57 AM

Quant Time: Aug 22 03:57:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 03:28:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	682141	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	952520	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	899954	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	495246	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	807530	98.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	196.66%	
35) Dibromofluoromethane	7.59	113	763547	100.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	201.52%	
50) Toluene-d8	10.09	98	2973393	104.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	209.90%	
62) 4-Bromofluorobenzene	12.40	95	1032161	109.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	219.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	981892	107.56	ug/l	100
3) Chloromethane	2.06	50	1071053	95.12	ug/l	100
4) Vinyl Chloride	2.18	62	1053360	98.76	ug/l	99
5) Bromomethane	2.55	94	616424	89.79	ug/l	99
6) Chloroethane	2.69	64	593062	96.23	ug/l	99
7) Trichlorofluoromethane	3.01	101	1350325	98.87	ug/l	100
8) Diethyl Ether	3.41	74	471791	101.59	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	826773	96.89	ug/l	99
10) Methyl Iodide	3.95	142	769948	113.67	ug/l	99
11) Tert butyl alcohol	4.79	59	266512	509.65	ug/l	100
12) 1,1-Dichloroethene	3.73	96	771466	100.69	ug/l	100
13) Acrolein	3.61	56	156376	547.47	ug/l	100
14) Allyl chloride	4.32	41	1248644	104.59	ug/l	99
15) Acrylonitrile	4.99	53	1379288	519.00	ug/l	100
16) Acetone	3.82	43	961847	424.79	ug/l	99
17) Carbon Disulfide	4.05	76	2457359	95.68	ug/l	100
18) Methyl Acetate	4.33	43	716881	91.81	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	2042383	105.98	ug/l	99
20) Methylene Chloride	4.55	84	861198	93.05	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	820377	99.36	ug/l	99
22) Diisopropyl ether	5.95	45	2472639	103.93	ug/l	98
23) Vinyl Acetate	5.90	43	8305546	542.07	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1485190	97.23	ug/l	100
25) 2-Butanone	6.84	43	1533873	463.49	ug/l	100
26) 2,2-Dichloropropane	6.83	77	1214915	98.99	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	909020	101.75	ug/l	100
28) Bromochloromethane	7.20	49	635984	97.99	ug/l	99
29) Tetrahydrofuran	7.21	42	1006940	530.69	ug/l	100
30) Chloroform	7.37	83	1459618	96.50	ug/l	99
31) Cyclohexane	7.65	56	1392765	91.79	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	1271572	97.88	ug/l	99
36) 1,1-Dichloropropene	7.79	75	1171635	104.24	ug/l	100
37) Ethyl Acetate	6.93	43	668485	108.07	ug/l	99
38) Carbon Tetrachloride	7.77	117	1157895	101.91	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1344418	110.56	ug/l	98
40) Benzene	8.04	78	3472211	102.44	ug/l	100
41) Methacrylonitrile	7.18	41	397121	121.46	ug/l	92
42) 1,2-Dichloroethane	8.12	62	1026651	101.31	ug/l	100
43) Isopropyl Acetate	8.17	43	1205333	108.57	ug/l	100
44) Trichloroethene	8.84	130	915777	102.45	ug/l	99
45) 1,2-Dichloropropane	9.12	63	900830	101.12	ug/l	100
46) Dibromomethane	9.21	93	530299	101.31	ug/l	100
47) Bromodichloromethane	9.40	83	1129778	103.05	ug/l	99
48) Methyl methacrylate	9.20	41	621306	109.82	ug/l	99
49) 1,4-Dioxane	9.20	88	172738	2239.63	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	3353251	506.16	ug/l	99
52) Toluene	10.16	92	2161019	107.63	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	1195366	109.55	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	1357999	108.68	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	753640	101.13	ug/l	100
56) Ethyl methacrylate	10.43	69	984199	116.44	ug/l	99
57) 1,3-Dichloropropane	10.71	76	1283466	104.34	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	2152437	596.42	ug/l	99
59) 2-Hexanone	10.75	43	2292037	519.70	ug/l	99
60) Dibromochloromethane	10.90	129	885703	106.15	ug/l	100
61) 1,2-Dibromoethane	11.01	107	770861	106.97	ug/l	99
64) Tetrachloroethene	10.63	164	834149	97.58	ug/l	99
65) Chlorobenzene	11.43	112	2373208	100.89	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	864888	100.49	ug/l	99
67) Ethyl Benzene	11.51	91	4167342	108.97	ug/l	100
68) m/p-Xylenes	11.62	106	3203031	220.66	ug/l	100
69) o-Xylene	11.95	106	1538292	110.23	ug/l	100
70) Styrene	11.96	104	2504694	114.81	ug/l	100
71) Bromoform	12.13	173	630662	106.55	ug/l #	100
73) Isopropylbenzene	12.25	105	4070283	99.26	ug/l	100
74) N-amyl acetate	12.07	43	1078243	104.64	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	959601	86.85	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	770907m	91.81	ug/l	
77) Bromobenzene	12.53	156	1051381	94.34	ug/l	99
78) n-propylbenzene	12.59	91	4721222	103.06	ug/l	99
79) 2-Chlorotoluene	12.67	91	2767293	96.98	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	3395233	102.61	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	271731	105.90	ug/l	98
82) 4-Chlorotoluene	12.77	91	2845501	101.01	ug/l	100
83) tert-Butylbenzene	12.99	119	2885502	100.69	ug/l	100
84) 1,2,4-Trimethylbenzene	13.04	105	3477197	104.47	ug/l	100
85) sec-Butylbenzene	13.17	105	3885306	103.47	ug/l	100
86) p-Isopropyltoluene	13.29	119	3477528	108.69	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	1887101	99.78	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1830018	98.32	ug/l	99
89) n-Butylbenzene	13.62	91	2895992	113.17	ug/l	99
90) Hexachloroethane	13.88	117	598966	90.45	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	1783478	97.74	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	145211	98.60	ug/l	99

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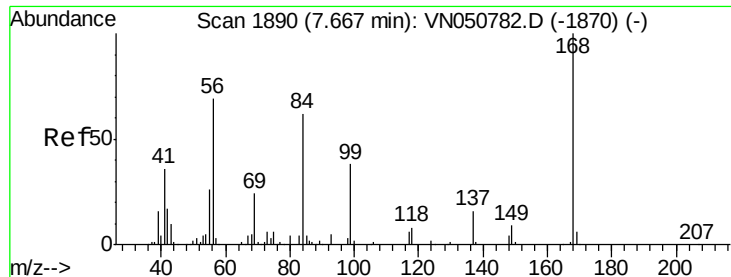
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	970026	122.13	ug/l	99
94) Hexachlorobutadiene	15.01	225	538306	90.48	ug/l	100
95) Naphthalene	15.13	128	2028464	129.45	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	903637	116.84	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:168 Resp: 682141

Ion Ratio Lower Upper

168 100

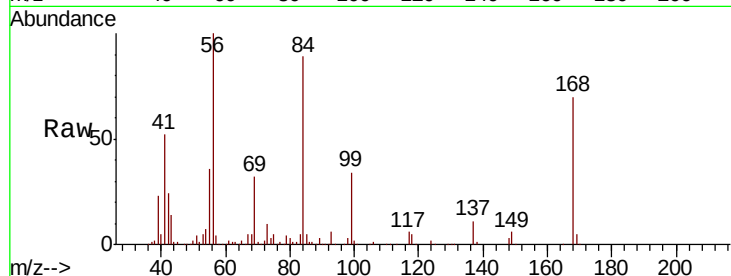
99 48.7 39.6 59.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

300000

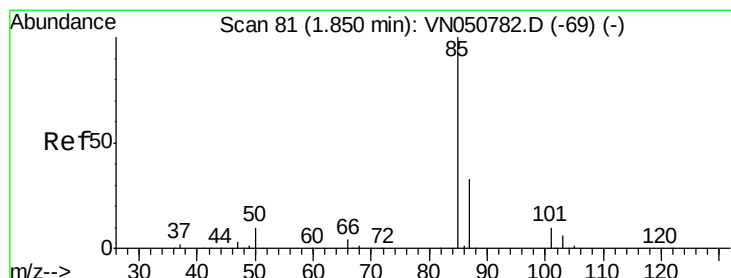
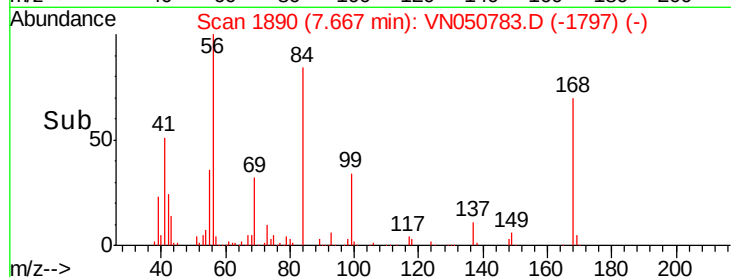
200000

100000

0

7.50 7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 107.56 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050783.D

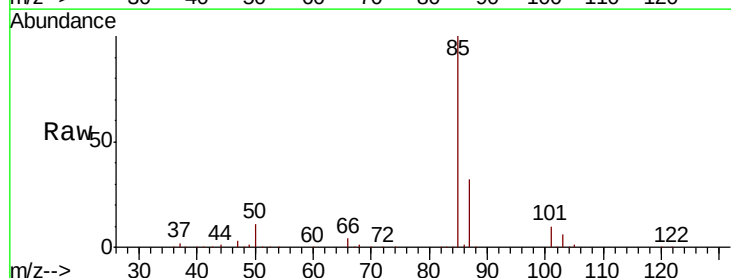
Acq: 21 Aug 2018 11:34

Tgt Ion: 85 Resp: 981892

Ion Ratio Lower Upper

85 100

87 32.4 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

800000

600000

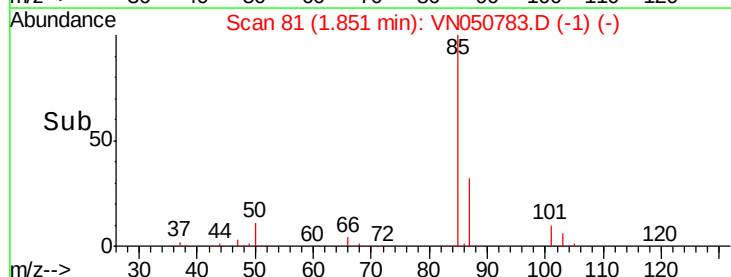
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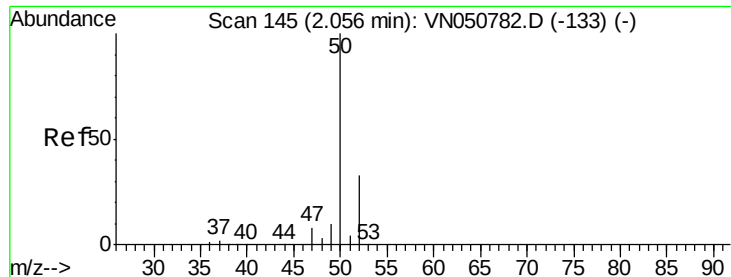
200000

0

1.80 1.90

Time-->





#3

Chloromethane

Concen: 95.12 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 50 Resp: 1071053

Ion Ratio Lower Upper

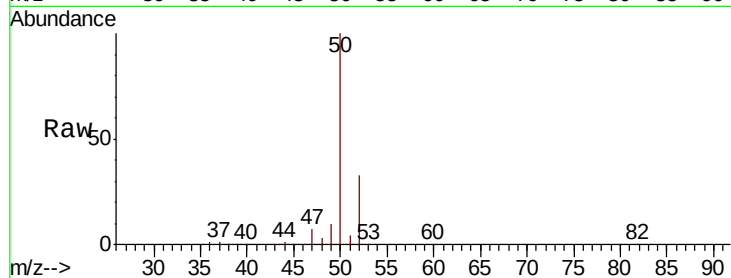
50 100

52 32.8 26.3 39.5

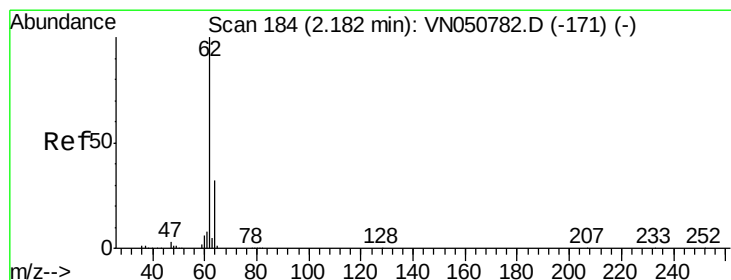
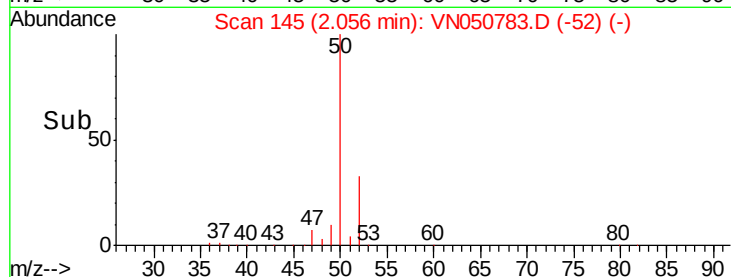
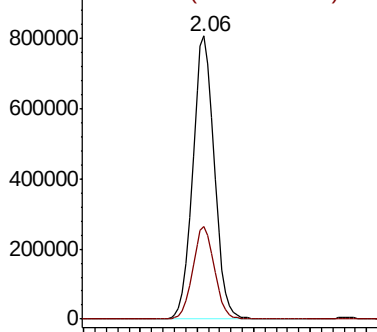
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Abundance Ion 49.90 (49.60 to 50.60): VNO
Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 98.76 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN050783.D

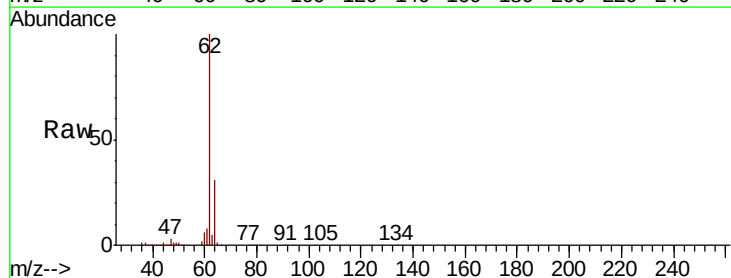
Acq: 21 Aug 2018 11:34

Tgt Ion: 62 Resp: 1053360

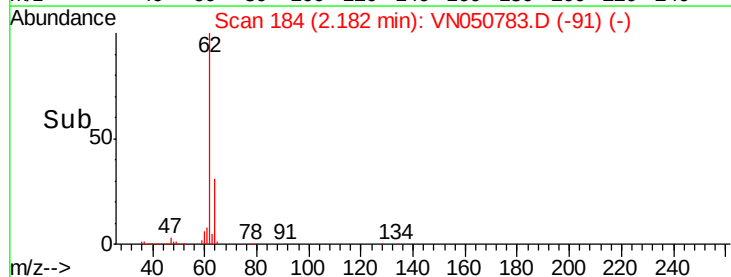
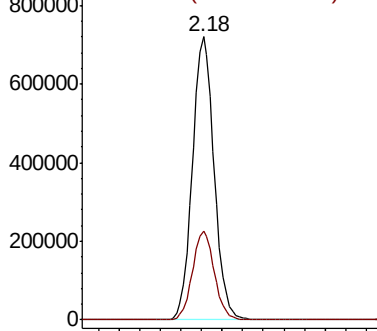
Ion Ratio Lower Upper

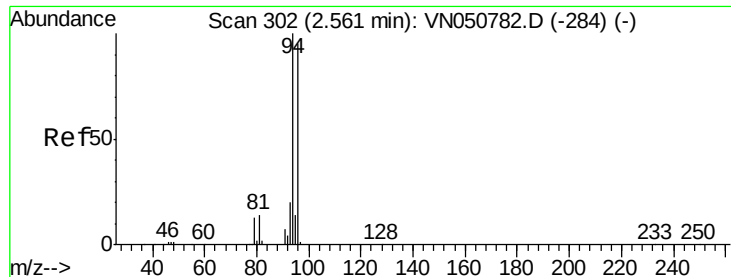
62 100

64 31.3 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNO
Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 89.79 ug/l

RT: 2.55 min Scan# 298

Delta R.T. -0.01 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 616424

Ion Ratio Lower Upper

94 100

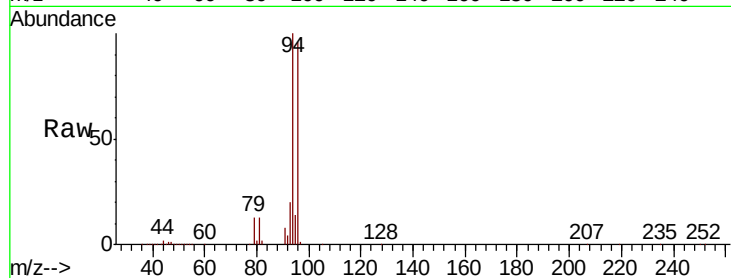
96 96.0 76.2 114.2

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.55

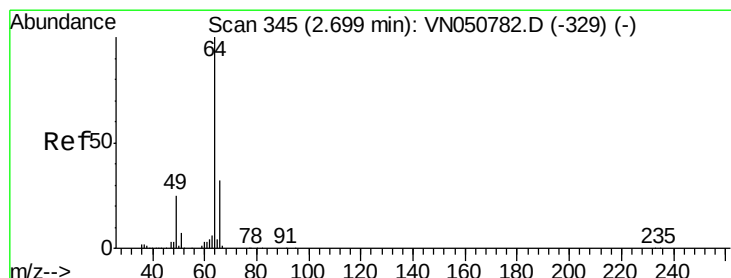
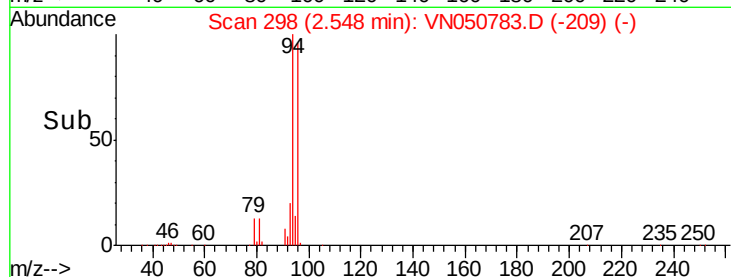
300000

200000

100000

0

Time-->



#6

Chloroethane

Concen: 96.23 ug/l

RT: 2.69 min Scan# 343

Delta R.T. -0.01 min

Lab File: VN050783.D

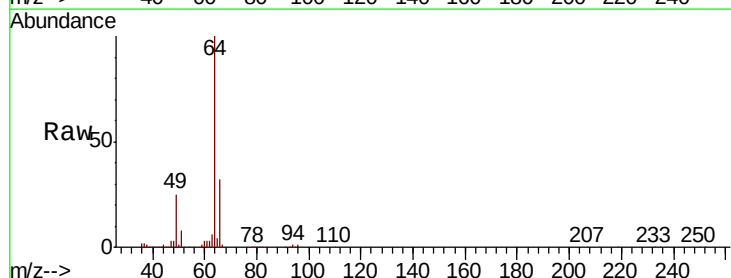
Acq: 21 Aug 2018 11:34

Tgt Ion: 64 Resp: 593062

Ion Ratio Lower Upper

64 100

66 32.1 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.69

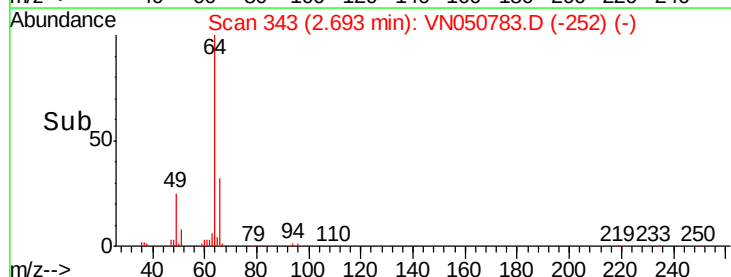
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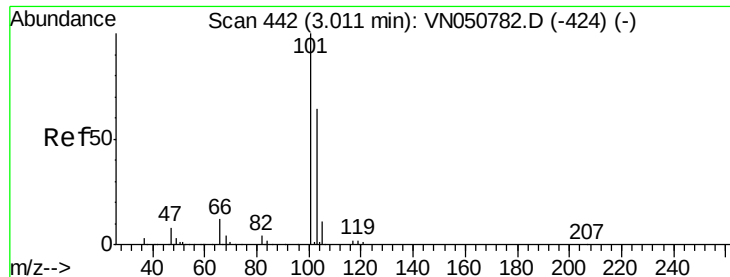
200000

100000

0

Time-->





#7

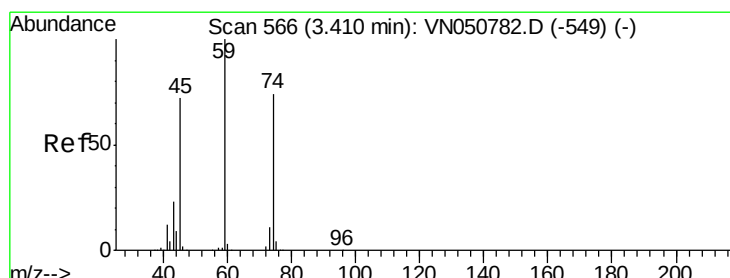
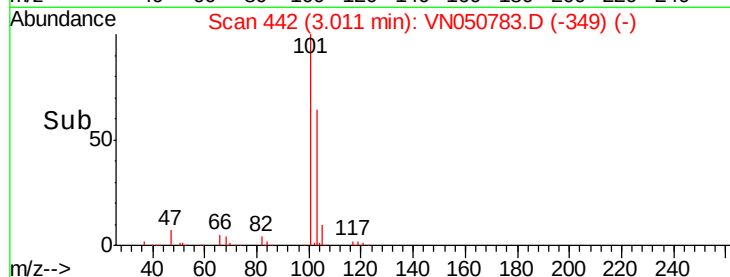
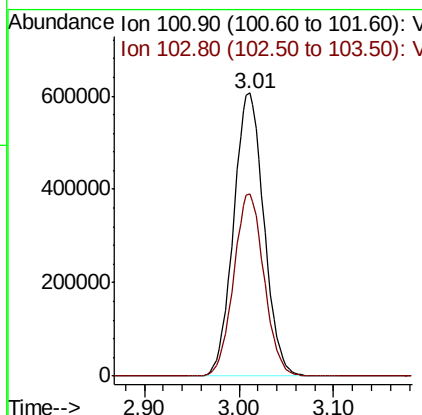
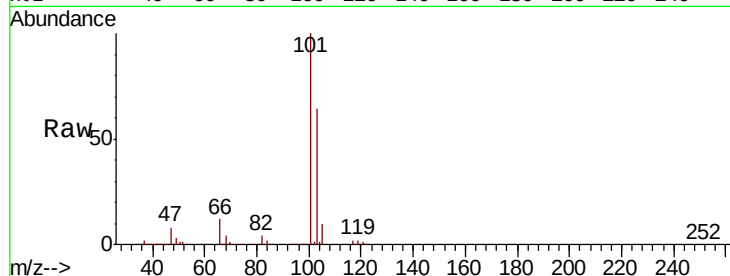
Trichlorofluoromethane
Concen: 98.87 ug/l
RT: 3.01 min Scan# 442
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:101 Resp: 1350325
Ion Ratio Lower Upper
101 100
103 64.5 51.6 77.4

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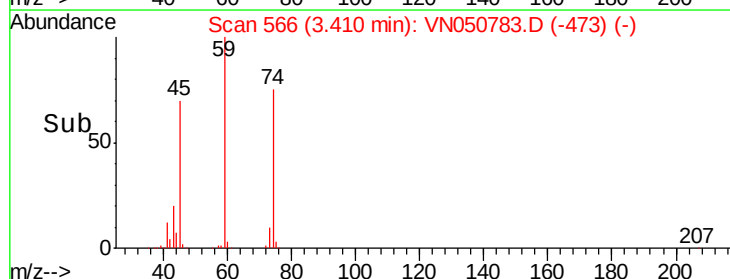
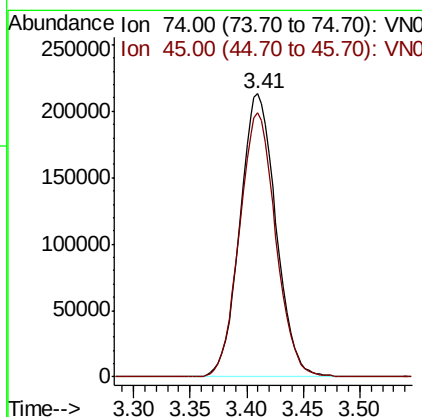
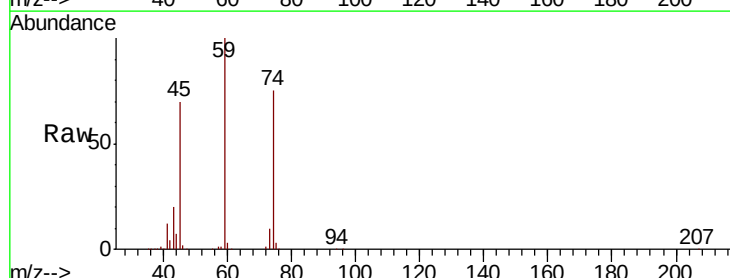
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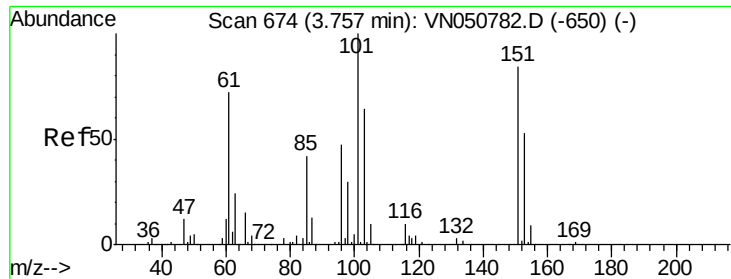


#8

Diethyl Ether
Concen: 101.59 ug/l
RT: 3.41 min Scan# 566
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion: 74 Resp: 471791
Ion Ratio Lower Upper
74 100
45 94.1 48.2 144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 96.89 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

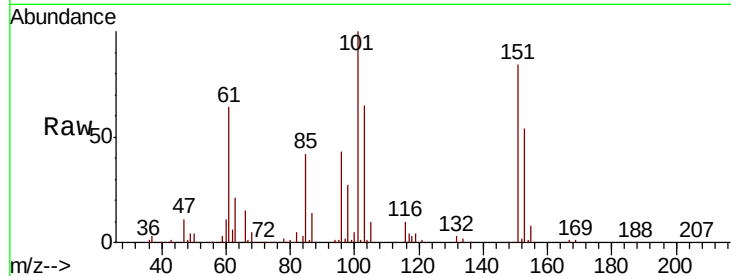
ClientSampleId :

VSTDIC100

Tot Ion:	101	Resp:	826773
Ion Ratio	Lower	Upper	
101	100		
85	42.0	33.7	50.5
151	83.4	67.4	101.2

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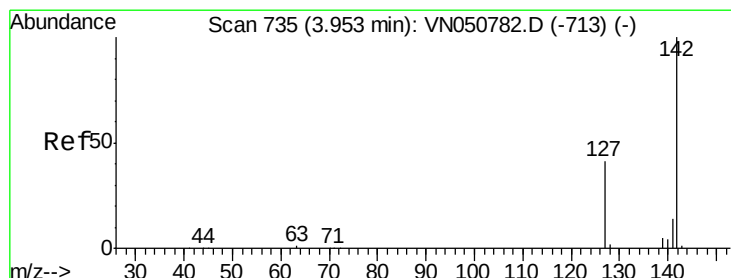
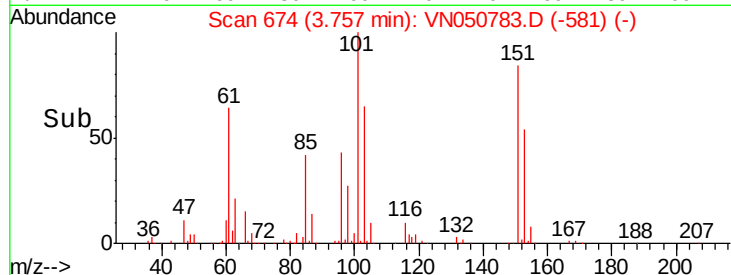
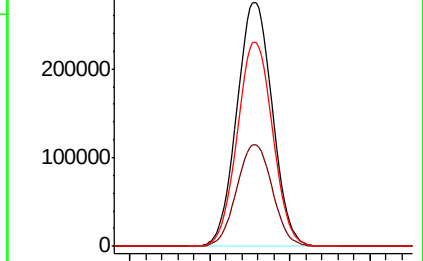
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 113.67 ug/l

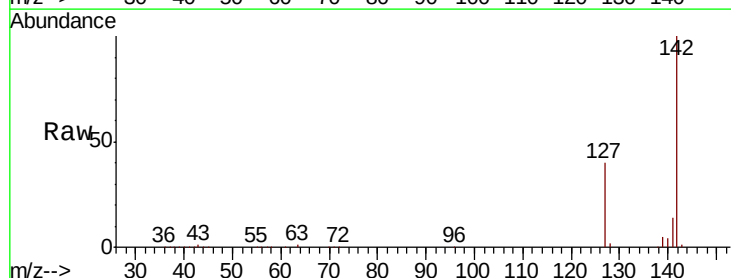
RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

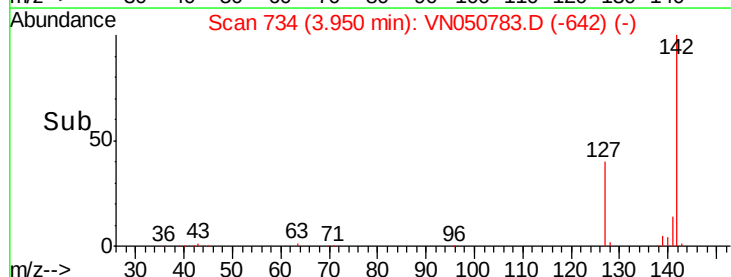
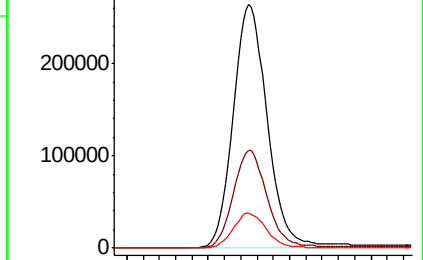
Tgt Ion:	142	Resp:	769948
Ion Ratio	Lower	Upper	
142	100		
127	40.2	31.7	47.5
141	14.1	11.4	17.0

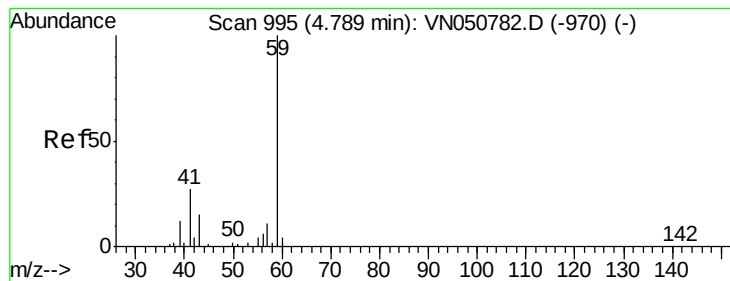


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

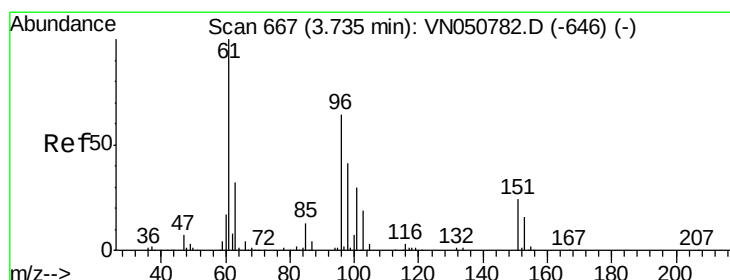
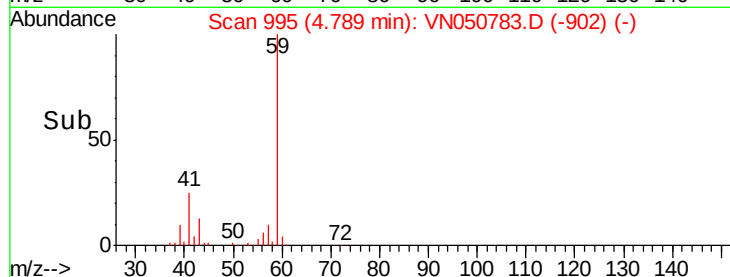
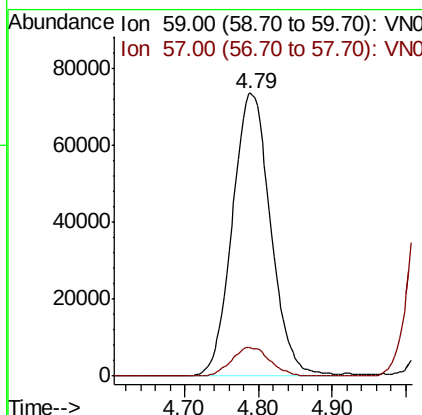
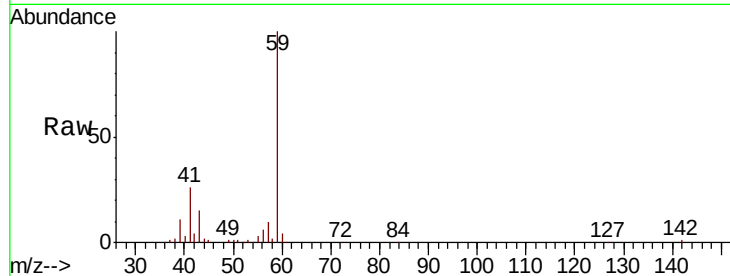
Tert butyl alcohol
Concen: 509.65 ug/l
RT: 4.79 min Scan# 995
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5

Manual Integrations
APPROVED

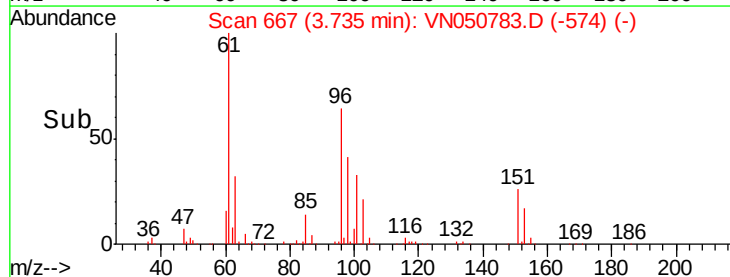
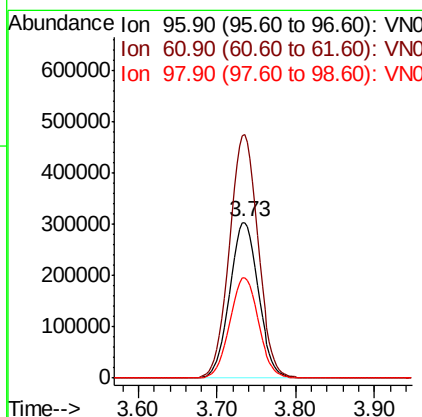
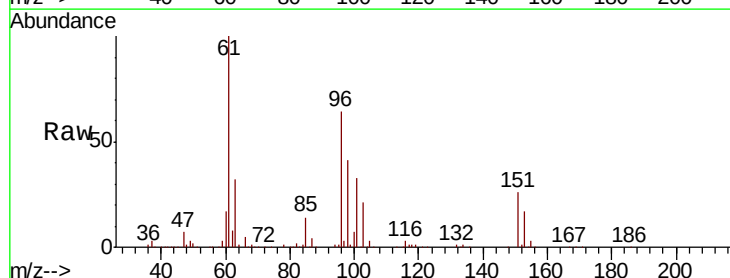
MMDadoda
8/22/2018 11:18:57 AM

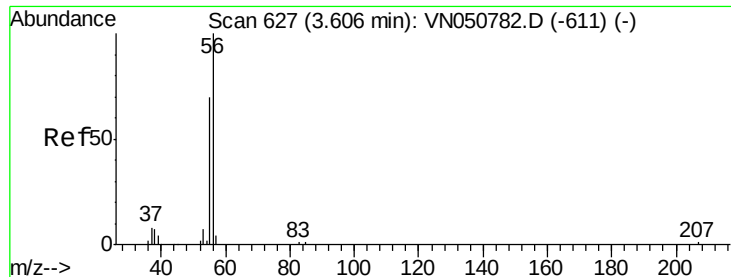


#12

1,1-Dichloroethene
Concen: 100.69 ug/l
RT: 3.73 min Scan# 667
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.2	124.9	187.3
98	64.6	51.1	76.7





#13

Acrolein

Concen: 547.47 ug/l

RT: 3.61 min Scan# 627

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 156376

Ion Ratio Lower Upper

56 100

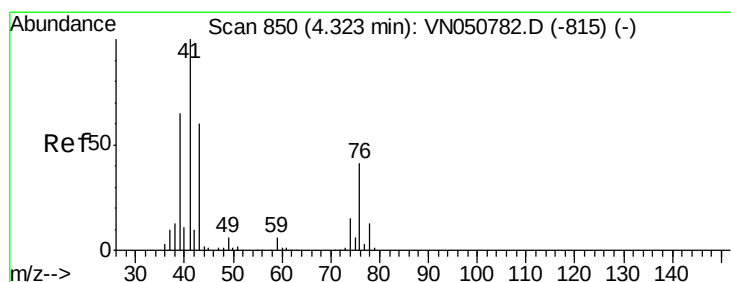
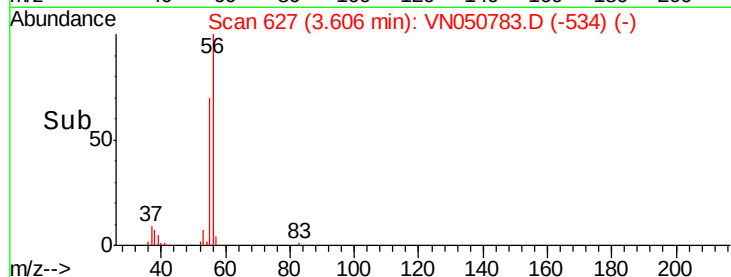
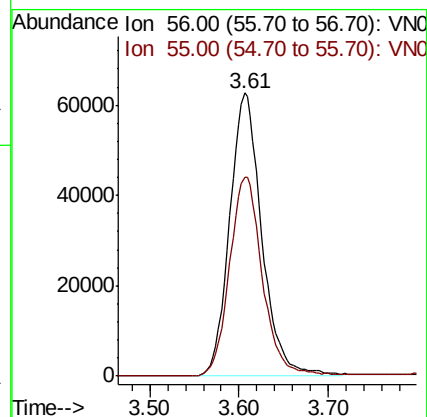
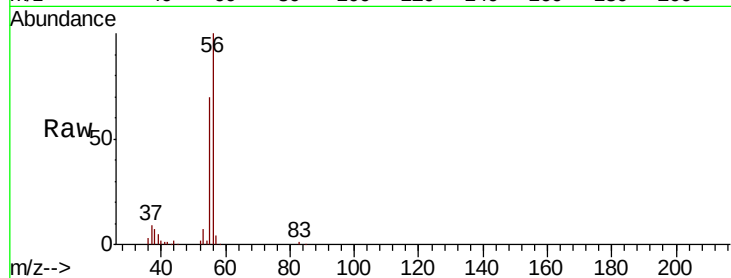
55 71.8 57.7 86.5

Manual Integrations

APPROVED

MMDadoda

8/22/2018 11:18:57 AM



#14

Allyl chloride

Concen: 104.59 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

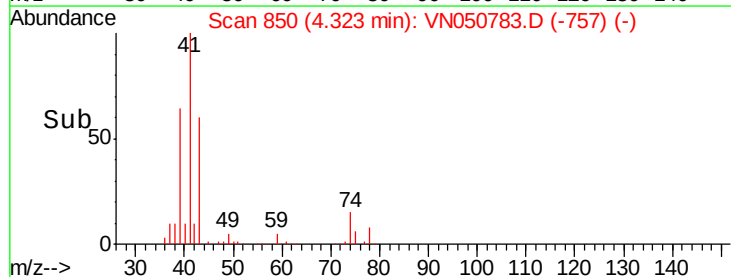
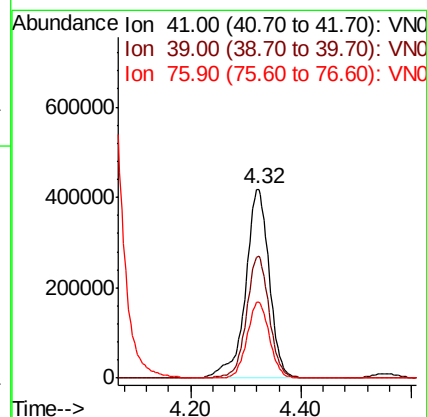
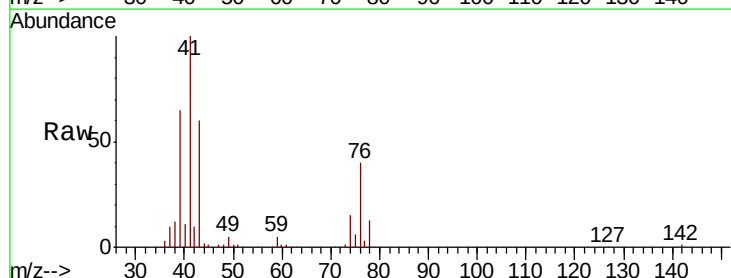
Tgt Ion: 41 Resp: 1248644

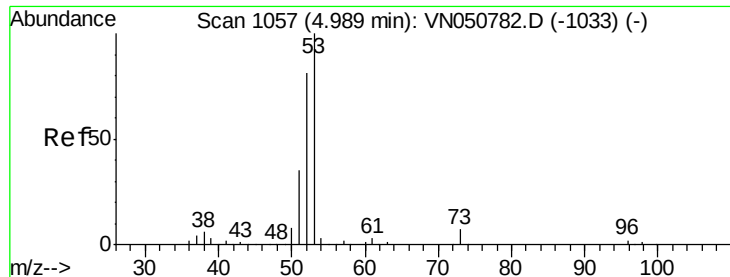
Ion Ratio Lower Upper

41 100

39 61.8 50.2 75.2

76 37.2 29.8 44.8





#15

Acrylonitrile

Concen: 519.00 ug/l

RT: 4.99 min Scan# 1057

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 53 Resp: 1379288

Ion Ratio Lower Upper

53 100

52 82.4 65.9 98.9

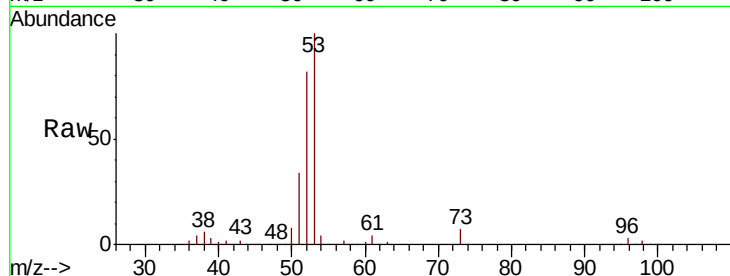
51 35.3 28.6 43.0

Manual Integrations

APPROVED

MMDadoda

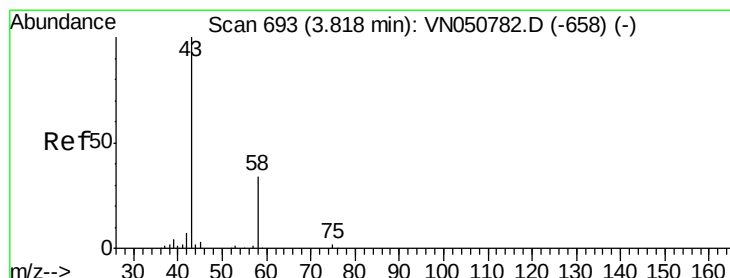
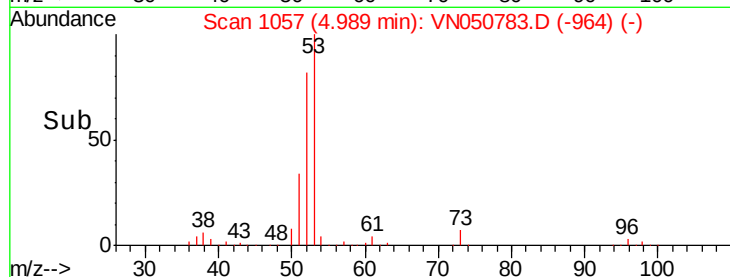
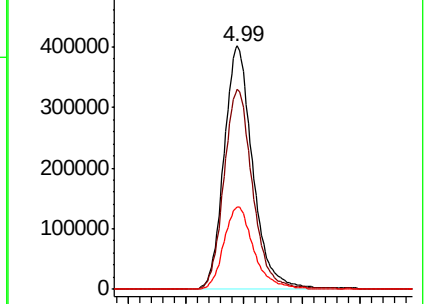
8/22/2018 11:18:57 AM



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 424.79 ug/l

RT: 3.82 min Scan# 693

Delta R.T. 0.00 min

Lab File: VN050783.D

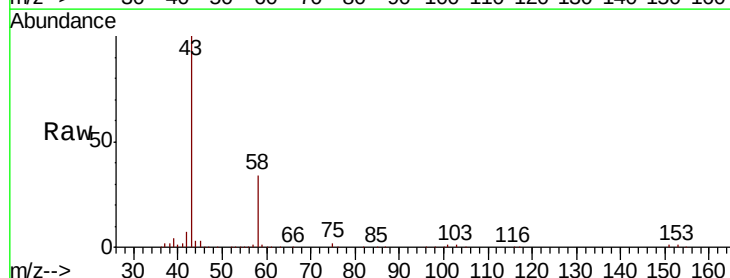
Acq: 21 Aug 2018 11:34

Tgt Ion: 43 Resp: 961847

Ion Ratio Lower Upper

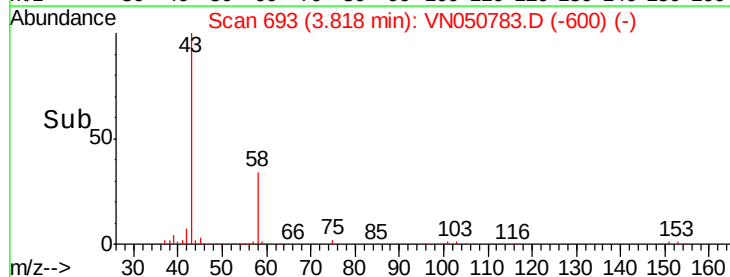
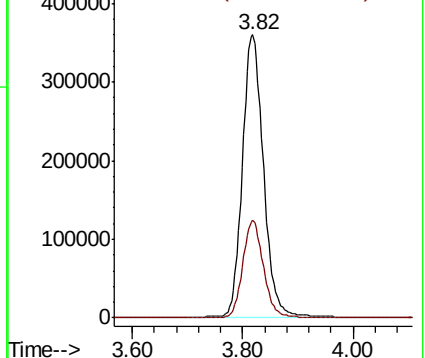
43 100

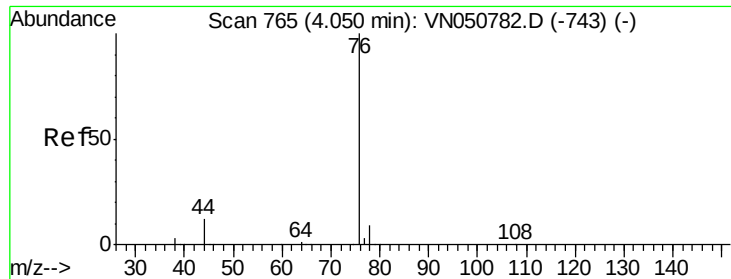
58 34.3 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 95.68 ug/l

RT: 4.05 min Scan# 765

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 2457359

Ion Ratio Lower Upper

76 100

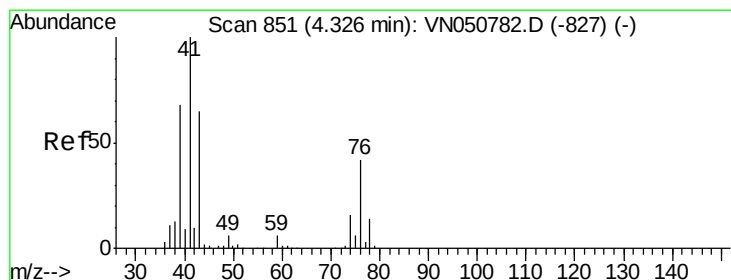
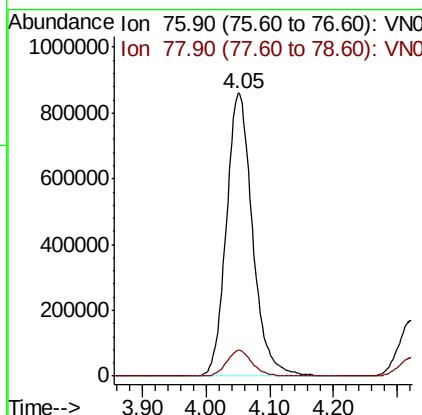
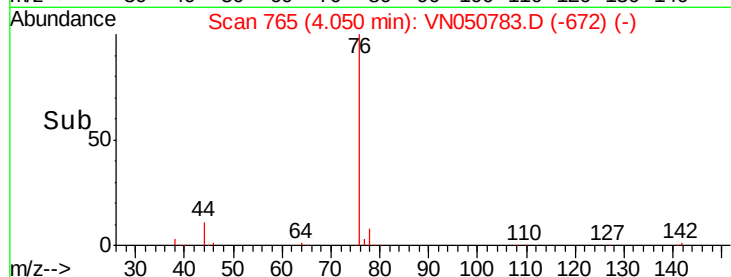
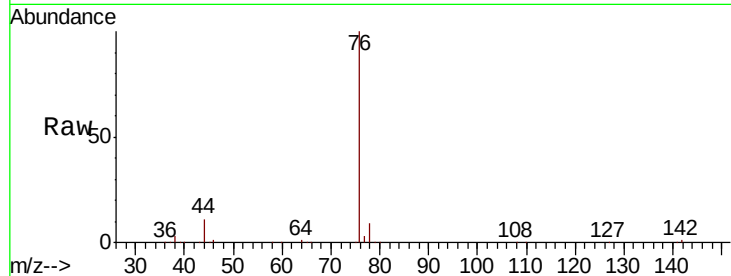
78 9.2 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

8/22/2018 11:18:57 AM



#18

Methyl Acetate

Concen: 91.81 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050783.D

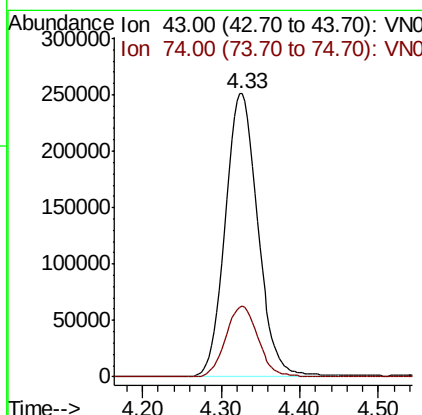
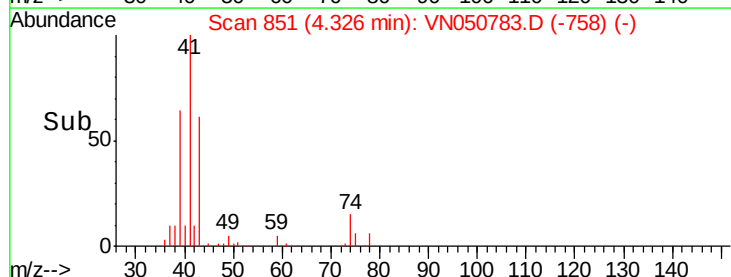
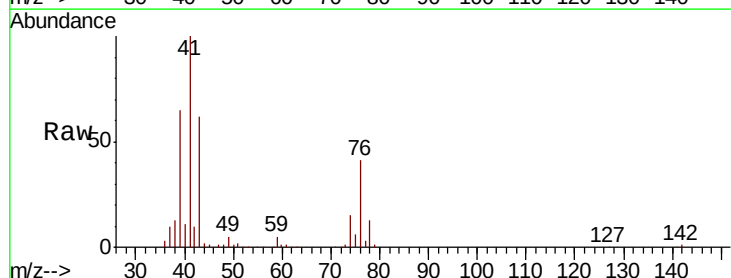
Acq: 21 Aug 2018 11:34

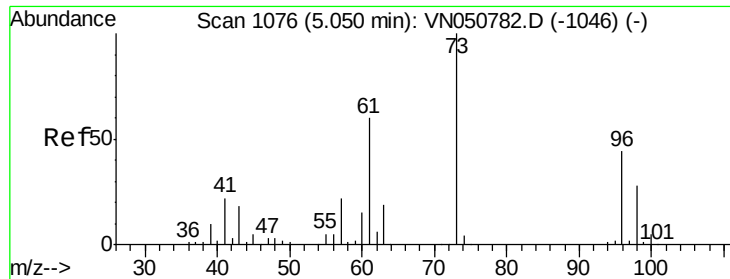
Tgt Ion: 43 Resp: 716881

Ion Ratio Lower Upper

43 100

74 25.1 19.8 29.8





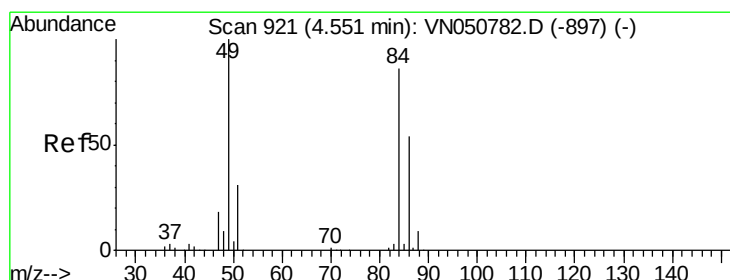
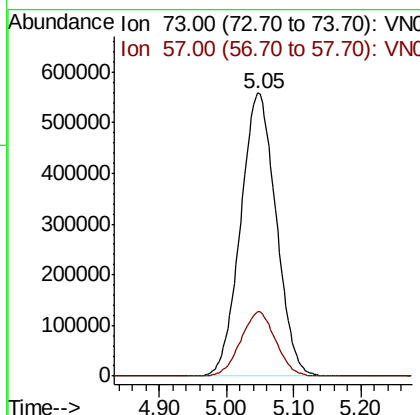
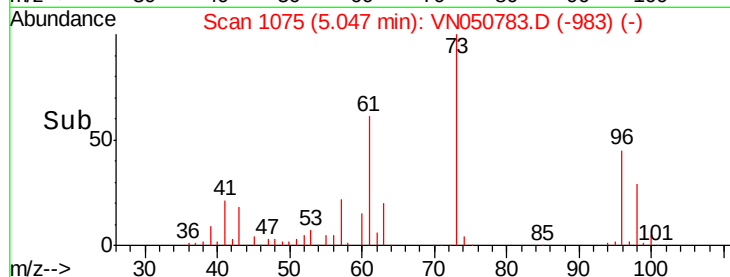
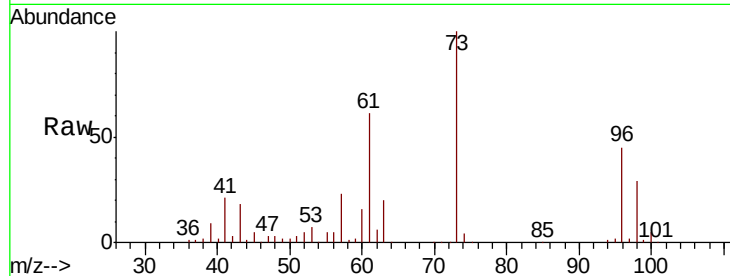
#19
Methyl tert-butyl Ether
Concen: 105.98 ug/l
RT: 5.05 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 73 Resp: 2042383
Ion Ratio Lower Upper
73 100
57 22.8 17.8 26.8

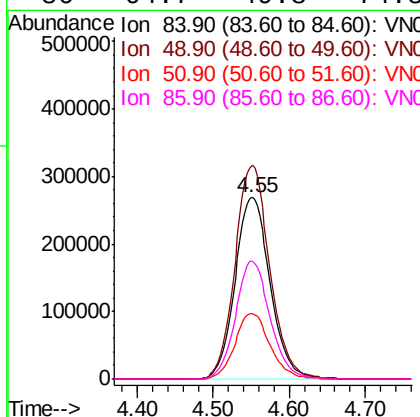
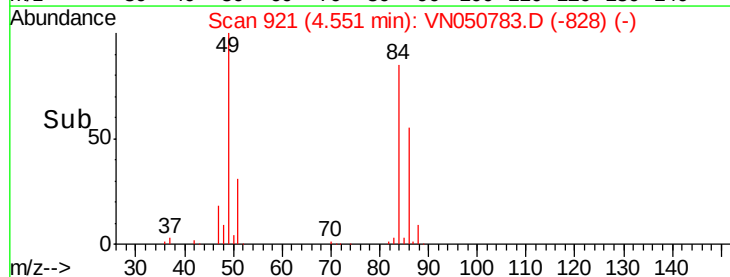
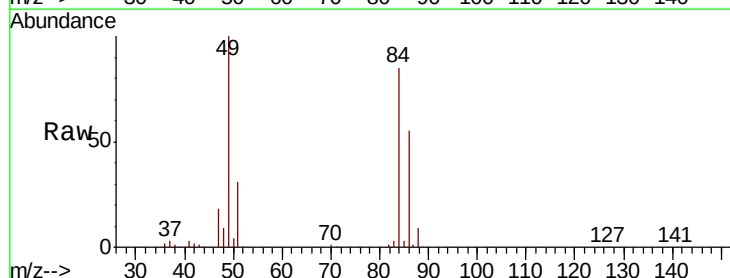
Manual Integrations
APPROVED

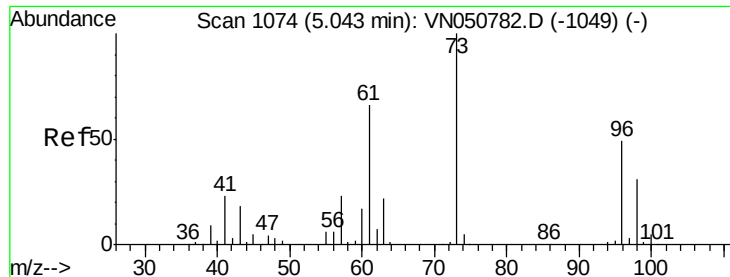
MMDadoda
8/22/2018 11:18:57 AM



#20
Methylene Chloride
Concen: 93.05 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion: 84 Resp: 861198
Ion Ratio Lower Upper
84 100
49 117.5 93.2 139.8
51 35.9 29.0 43.6
86 64.7 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 99.36 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 820377

Ion Ratio Lower Upper

96 100

61 135.2 107.4 161.0

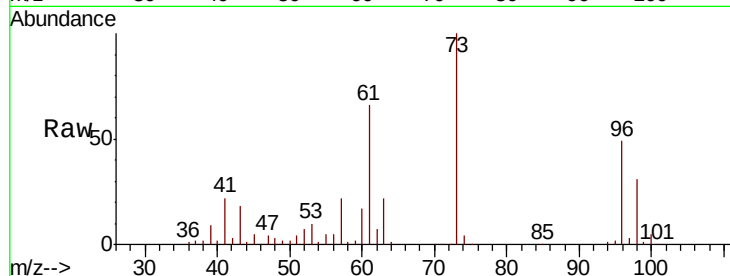
98 62.7 50.7 76.1

Manual Integrations

APPROVED

MMDadoda

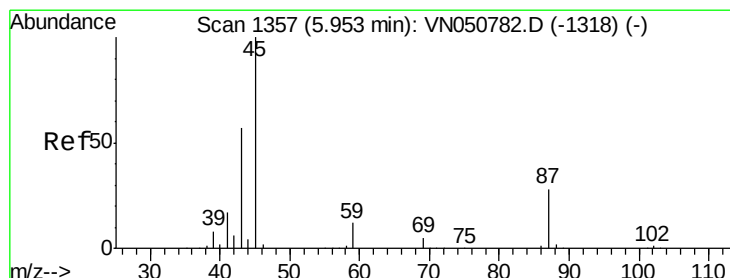
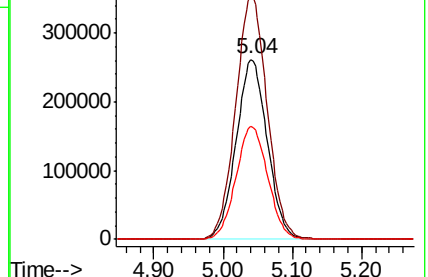
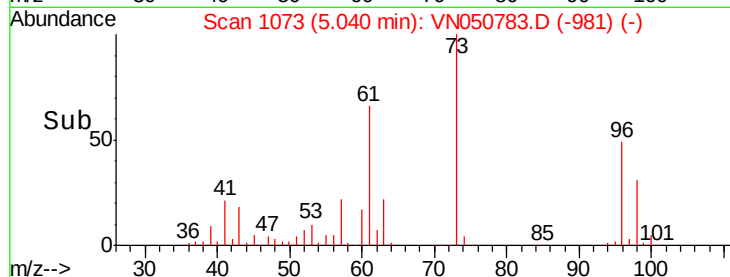
8/22/2018 11:18:57 AM



Abundance Ion 95.90 (95.60 to 96.60): VN050783.D (-981) (-)

Ion 60.90 (60.60 to 61.60): VN050783.D (-981) (-)

Ion 97.90 (97.60 to 98.60): VN050783.D (-981) (-)



#22

Diisopropyl ether

Concen: 103.93 ug/l

RT: 5.95 min Scan# 1357

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Tgt Ion: 45 Resp: 2472639

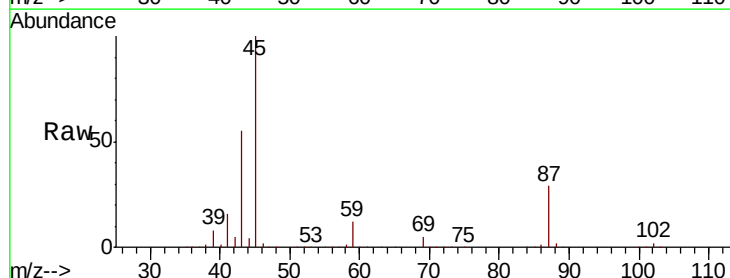
Ion Ratio Lower Upper

45 100

43 55.1 45.9 68.9

87 28.9 22.7 34.1

59 12.2 9.3 13.9

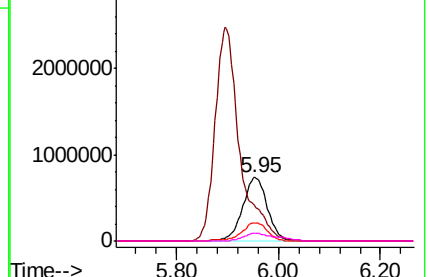
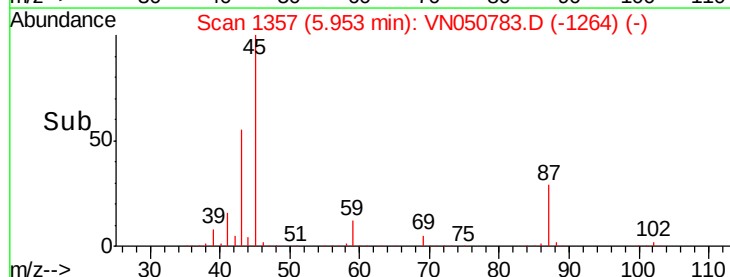


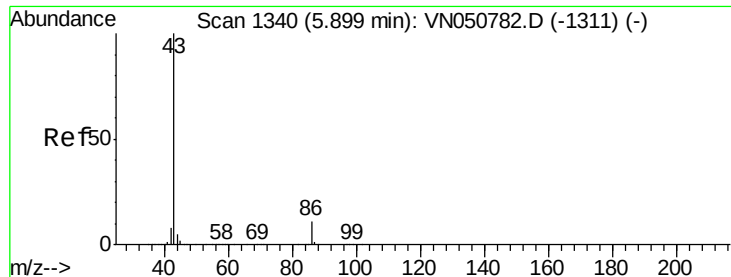
Abundance Ion 45.00 (44.70 to 45.70): VN050783.D (-1264) (-)

Ion 43.00 (42.70 to 43.70): VN050783.D (-1264) (-)

Ion 87.00 (86.70 to 87.70): VN050783.D (-1264) (-)

Ion 59.00 (58.70 to 59.70): VN050783.D (-1264) (-)





#23

Vinyl Acetate

Concen: 542.07 ug/l

RT: 5.90 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampled :

VSTDICC100

Tot Ion: 43 Resp: 8305546

Ion Ratio Lower Upper

43 100

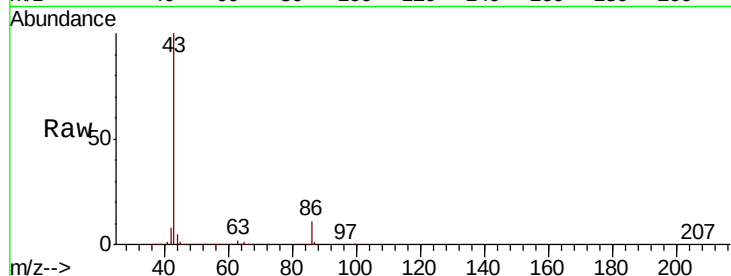
86 10.9 8.7 13.1

Manual Integrations

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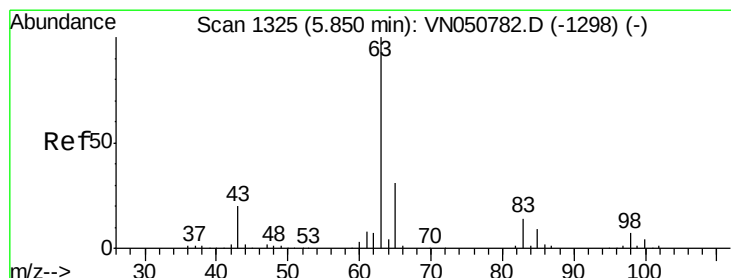
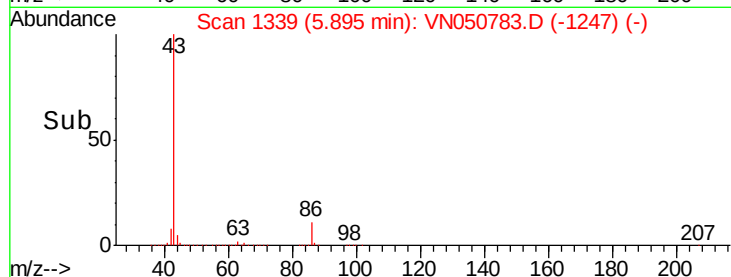
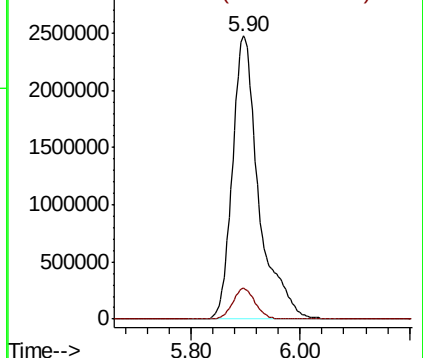
MMDadoda

8/22/2018 11:18:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 97.23 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

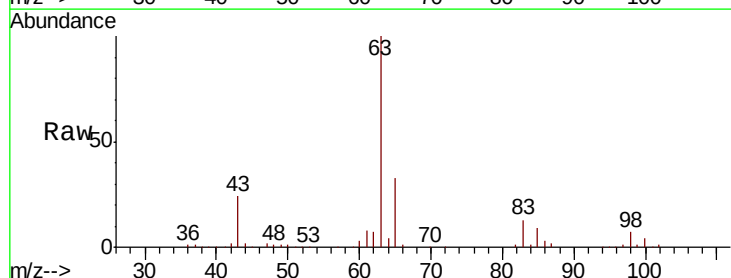
Tgt Ion: 63 Resp: 1485190

Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

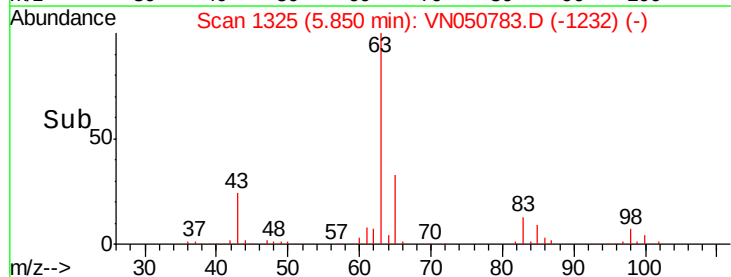
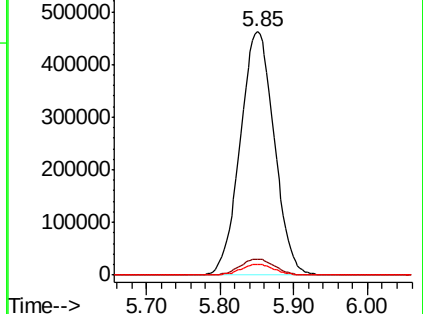
100 4.3 2.1 6.5

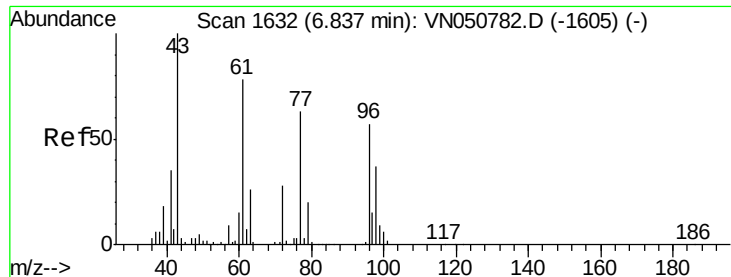


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





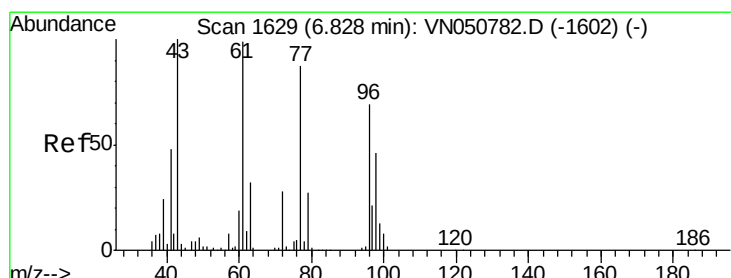
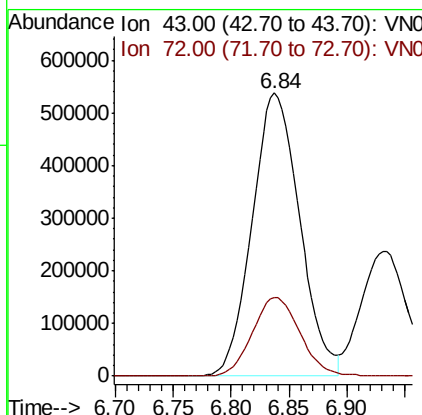
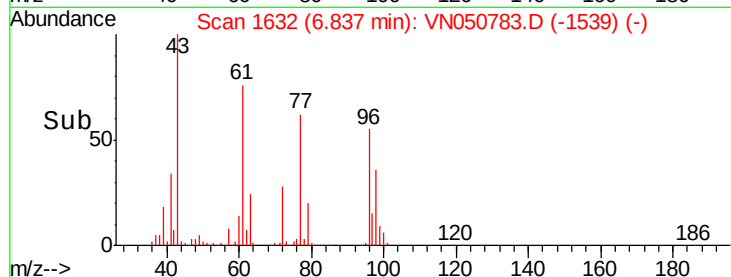
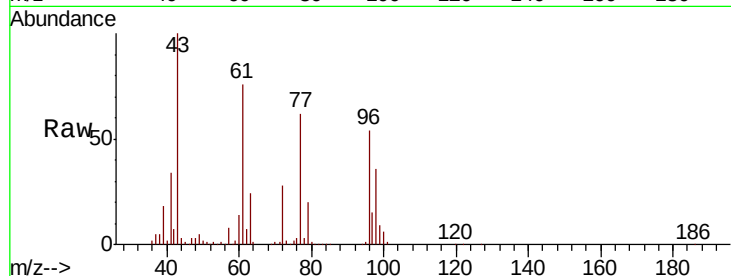
#25
2-Butanone
Concen: 463.49 ug/l
RT: 6.84 min Scan# 1632
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion: 43 Resp: 1533873
Ion Ratio Lower Upper
43 100
72 27.7 22.3 33.5

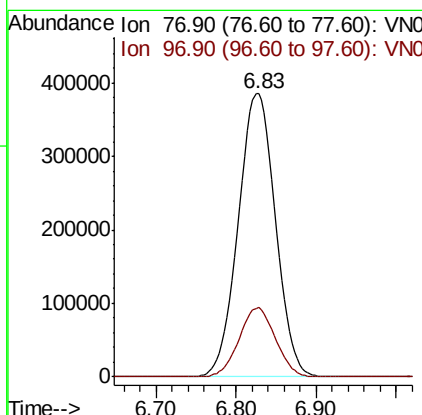
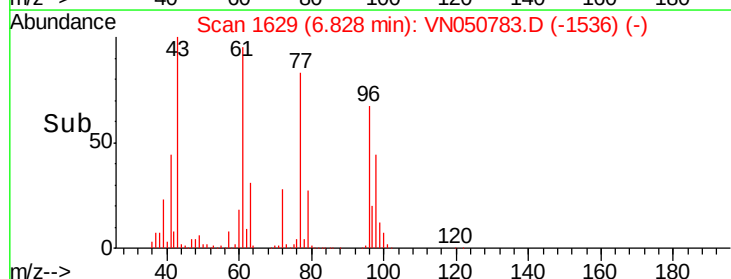
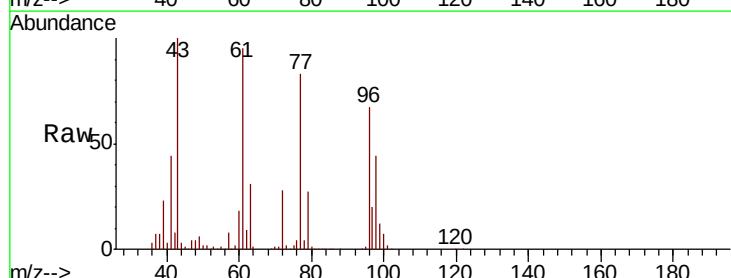
Manual Integrations
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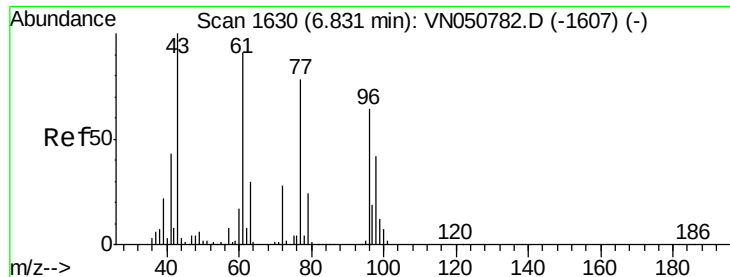
MMDadoda
8/22/2018 11:18:57 AM



#26
2,2-Dichloropropane
Concen: 98.99 ug/l
RT: 6.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion: 77 Resp: 1214915
Ion Ratio Lower Upper
77 100
97 23.9 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 101.75 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

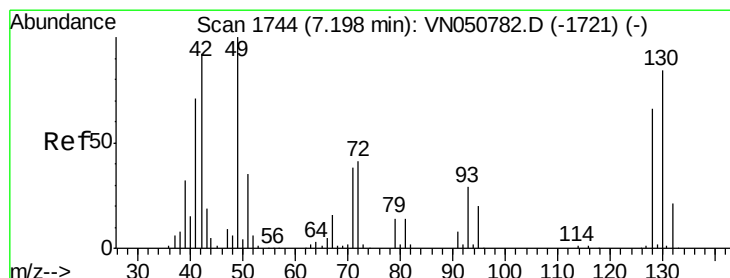
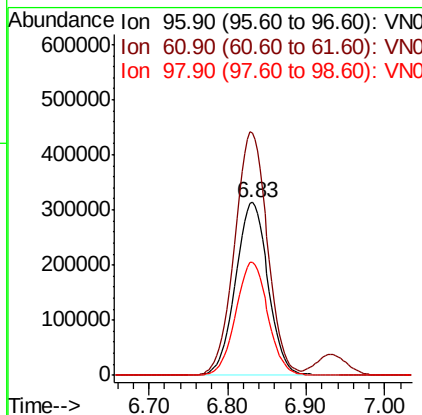
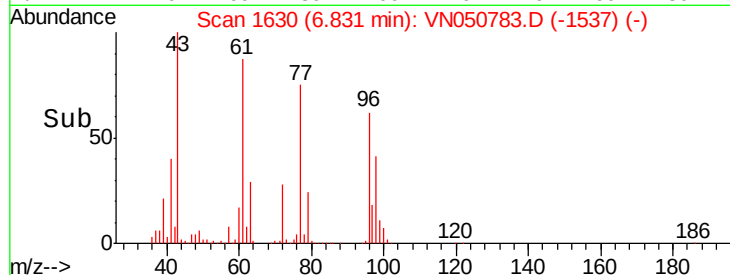
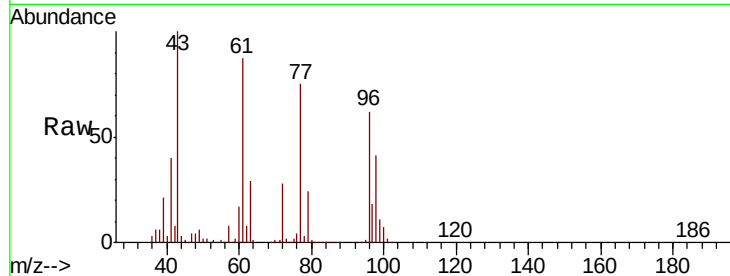
ClientSampleId :

VSTDIC100

Tot Ion:	96	Resp:	909020
Ion	Ratio	Lower	Upper
96	100		
61	141.7	0.0	283.4
98	64.9	0.0	129.8

Manual Integrations
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8/22/2018 11:18:57 AM



#28

Bromochloromethane

Concen: 97.99 ug/l

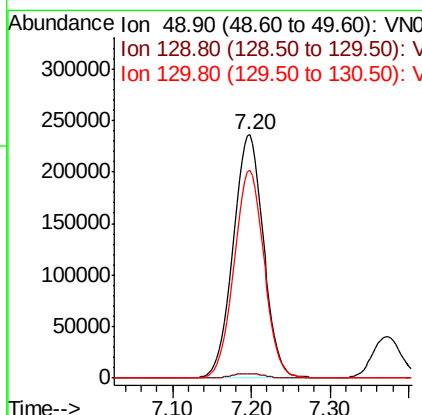
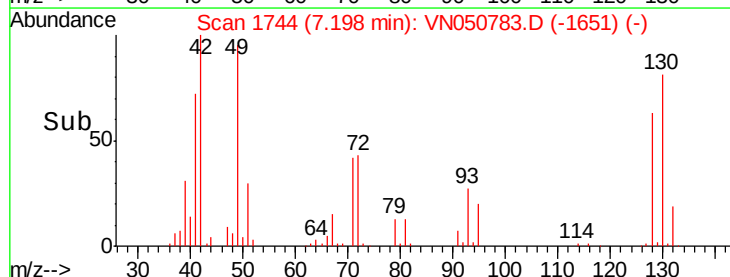
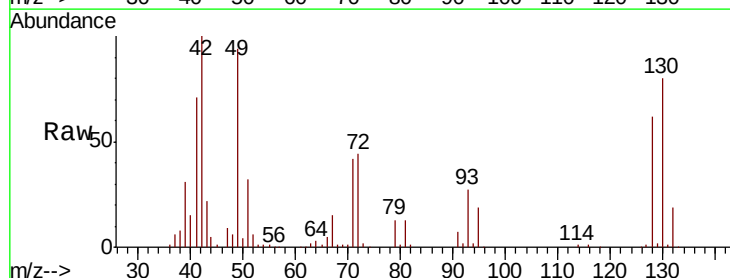
RT: 7.20 min Scan# 1744

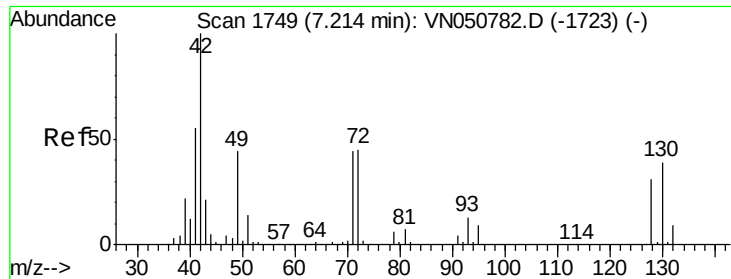
Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Tgt Ion:	49	Resp:	635984
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	84.7	67.1	100.7





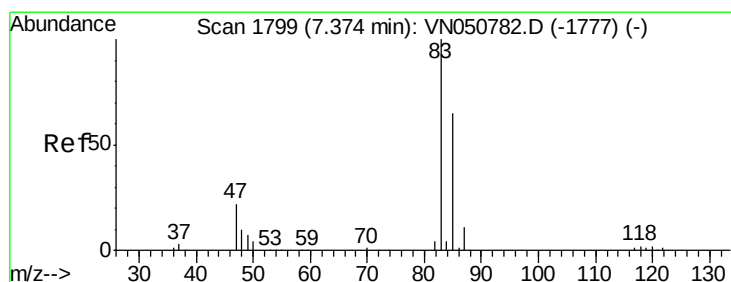
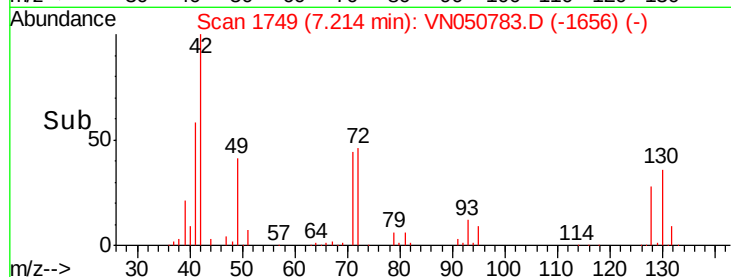
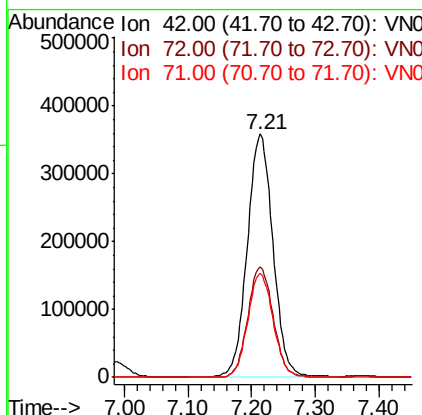
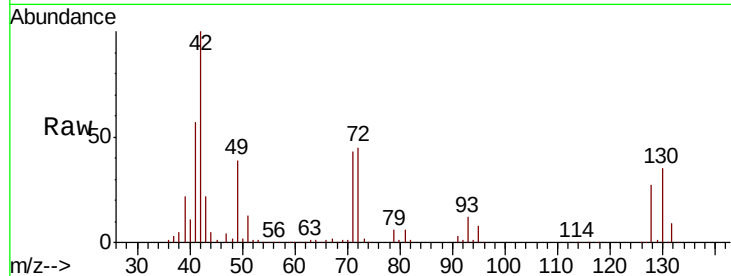
#29
Tetrahydrofuran
Concen: 530.69 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 42 Resp: 1006940
Ion Ratio Lower Upper
42 100
72 44.7 35.5 53.3
71 42.3 33.7 50.5

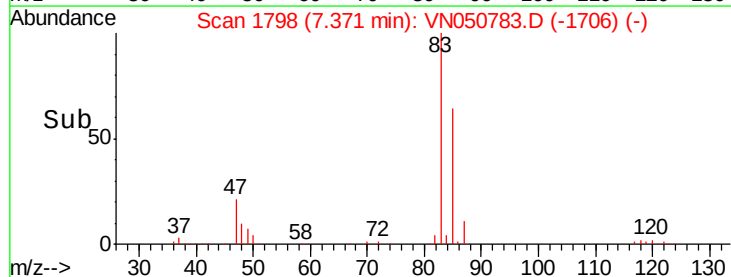
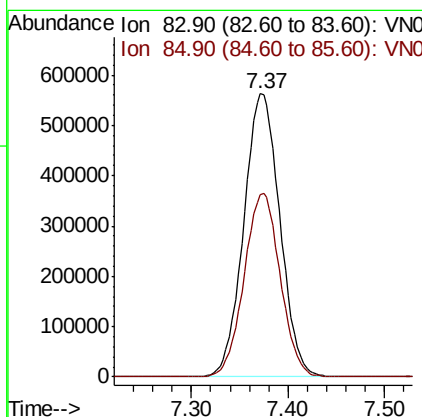
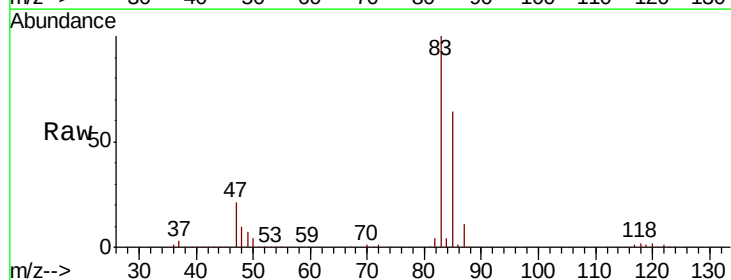
Manual Integrations
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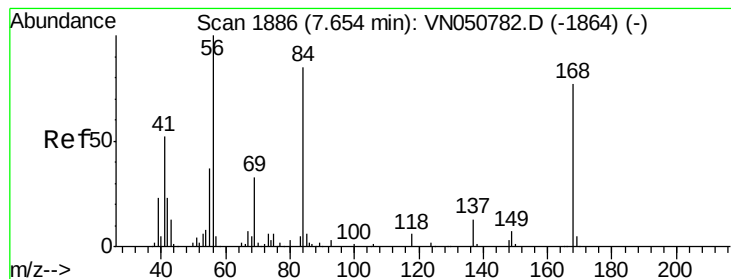
MMDadoda
8/22/2018 11:18:57 AM



#30
Chloroform
Concen: 96.50 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion: 83 Resp: 1459618
Ion Ratio Lower Upper
83 100
85 64.3 52.2 78.4





#31

Cyclohexane

Concen: 91.79 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 56 Resp: 1392765

Ion Ratio Lower Upper

56 100

69 31.5 26.2 39.4

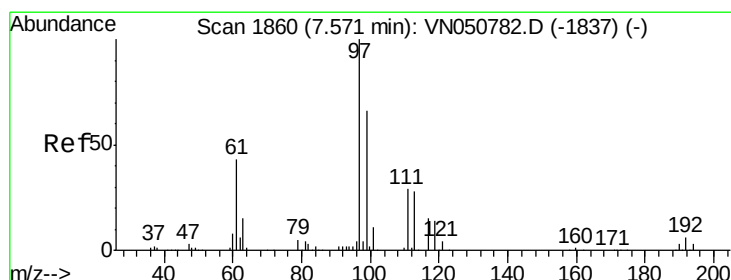
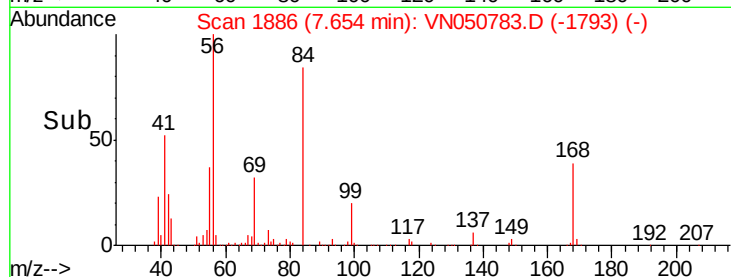
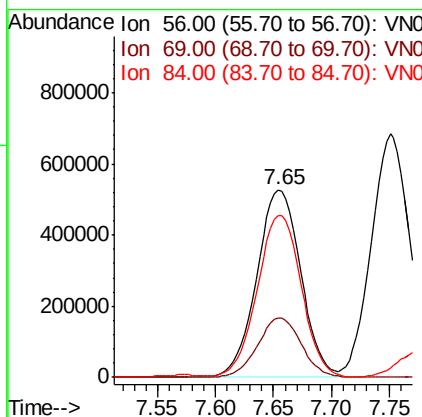
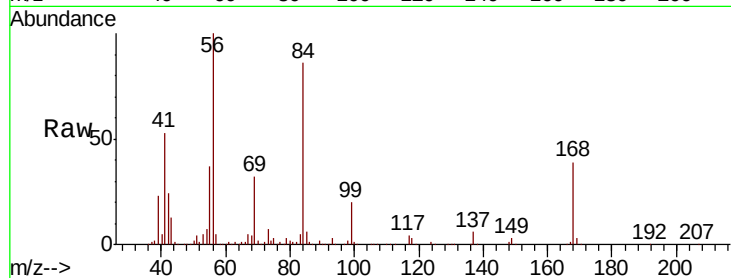
84 84.8 68.3 102.5

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 97.88 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

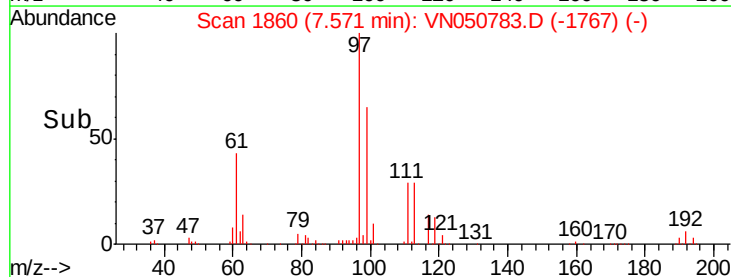
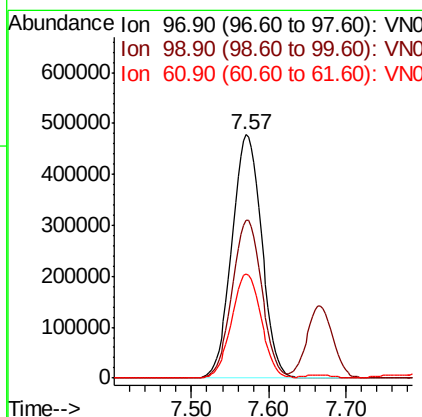
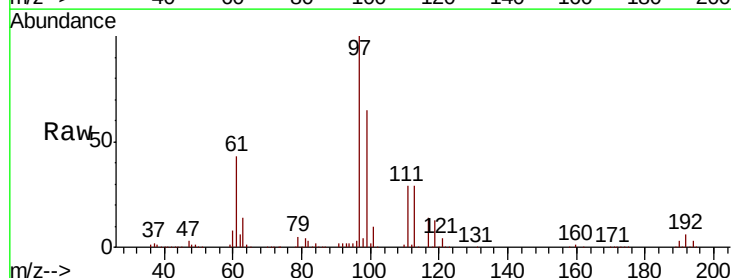
Tgt Ion: 97 Resp: 1271572

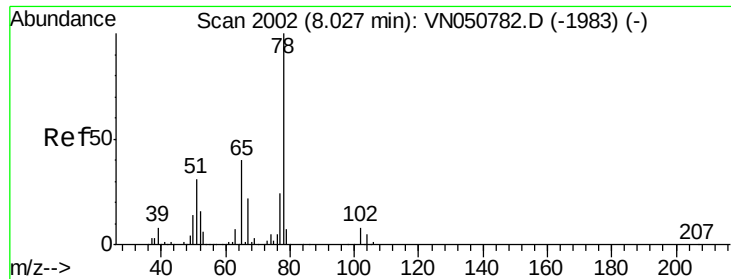
Ion Ratio Lower Upper

97 100

99 64.8 51.8 77.6

61 42.8 34.9 52.3





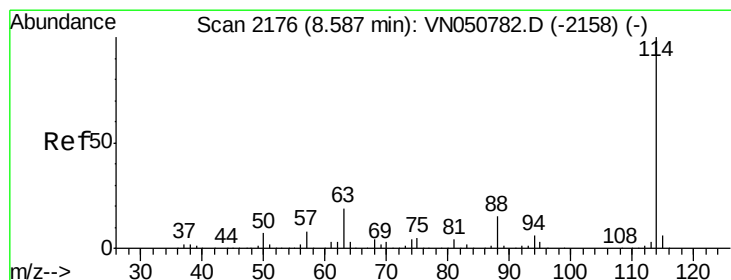
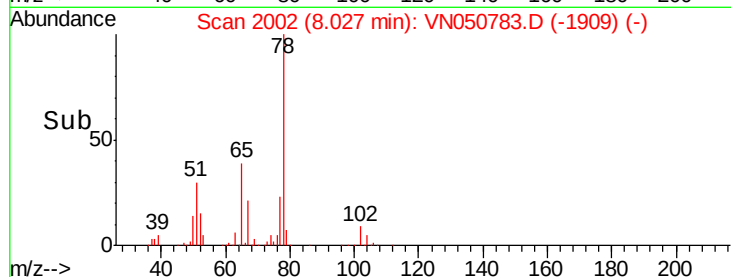
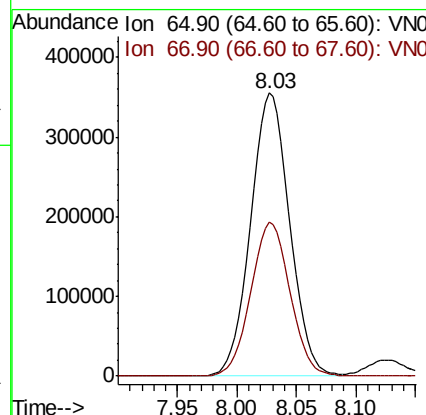
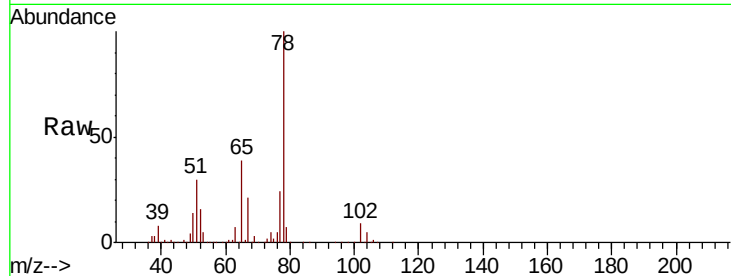
#33
 1,2-Dichloroethane-d4
 Concen: 98.33 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	807530		
67	54.7	0.0	110.4	

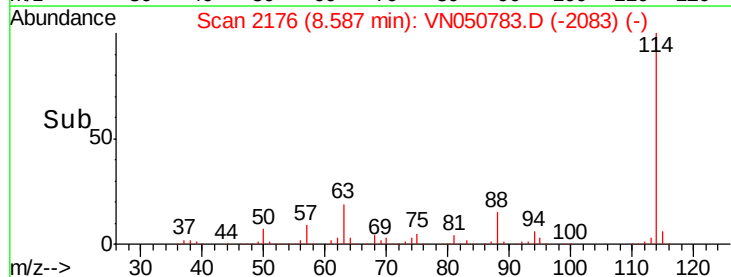
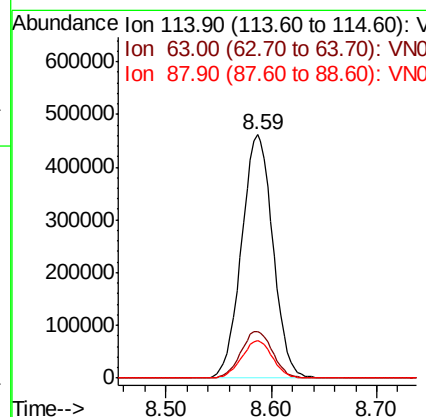
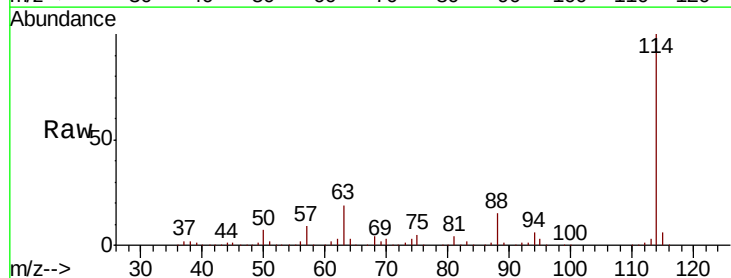
Manual Integrations
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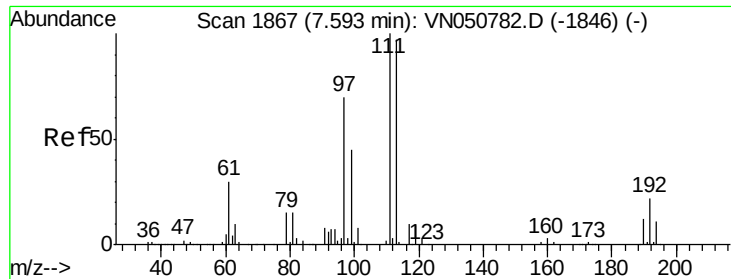
MMDadoda
 8/22/2018 11:18:57 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	952520		
63	19.3	0.0	38.6	
88	15.3	0.0	30.6	





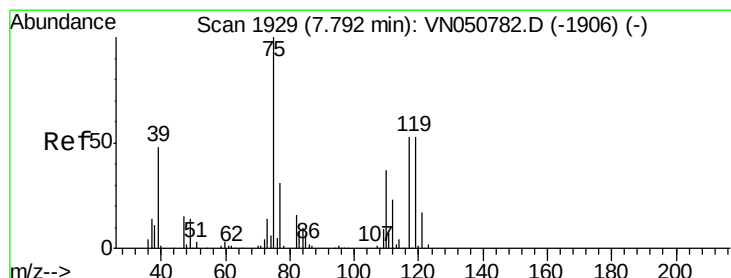
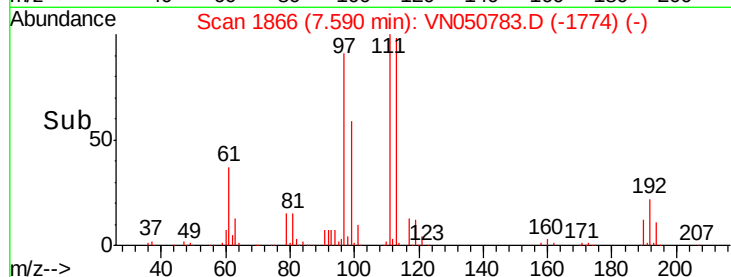
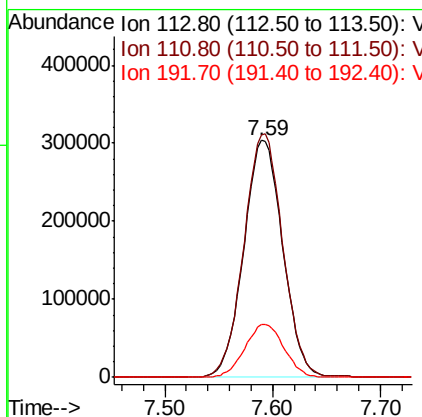
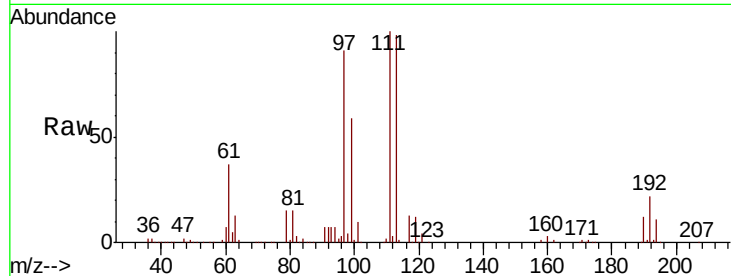
#35
 Dibromofluoromethane
 Concen: 100.76 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.6	123.8
192	22.5	18.0	27.0

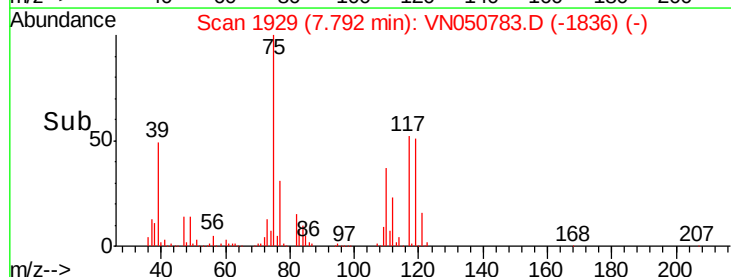
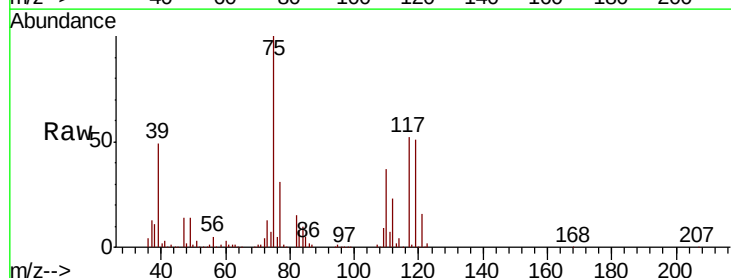
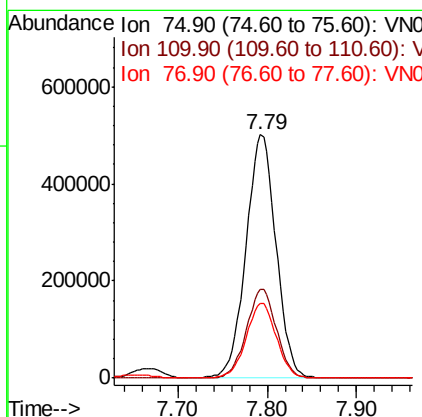
Manual Integrations
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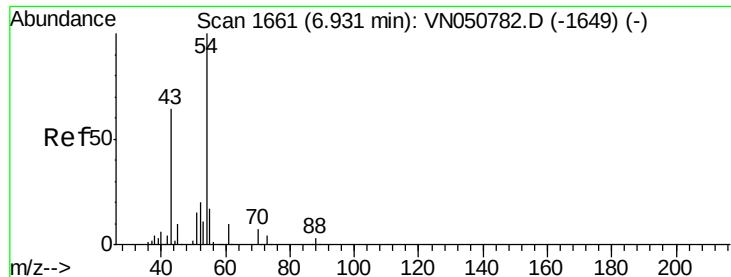
MMDadoda
 8/22/2018 11:18:57 AM



#36
 1,1-Dichloropropene
 Concen: 104.24 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.5	18.1	54.4
77	31.0	24.8	37.2





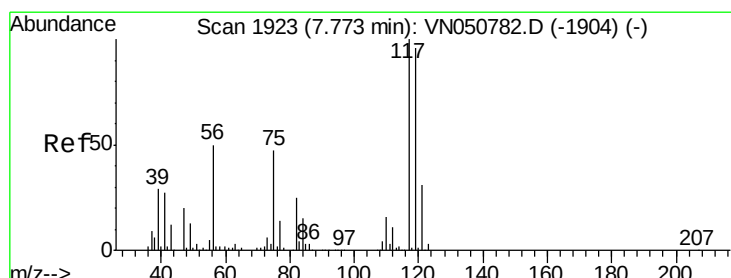
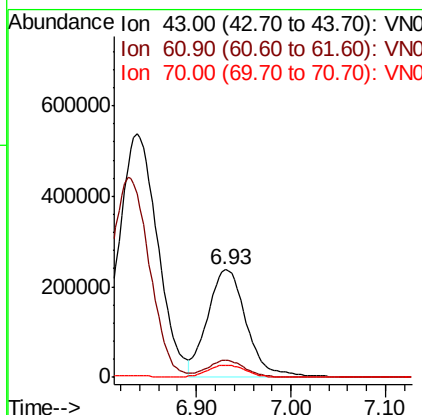
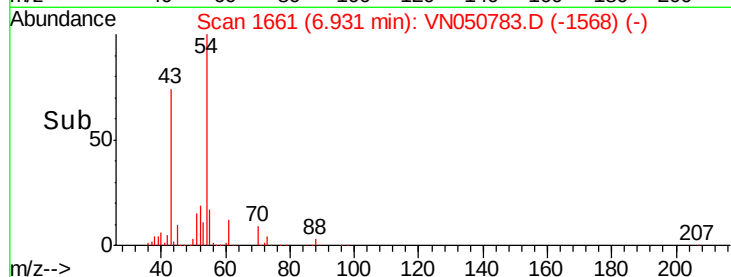
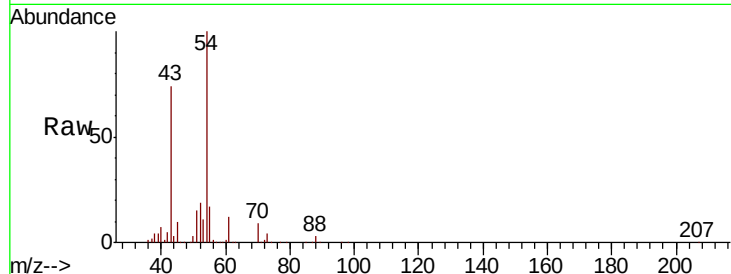
#37
Ethyl Acetate
Concen: 108.07 ug/l
RT: 6.93 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	12.0	18.0
70	11.2	8.6	13.0

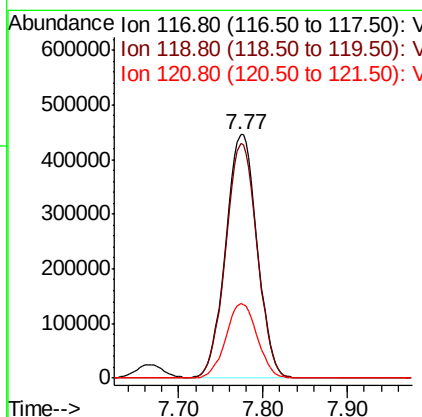
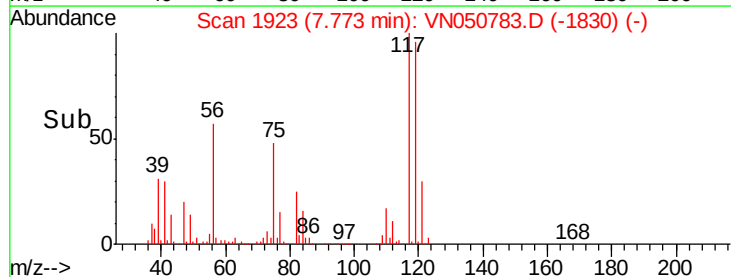
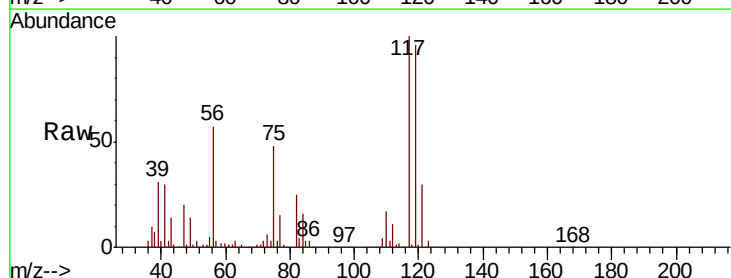
Manual Integrations
APPROVED

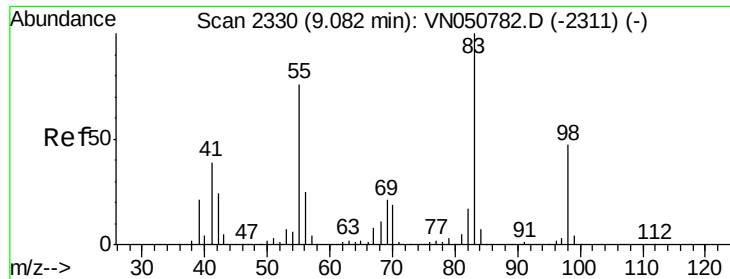
MMDadoda
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#38
Carbon Tetrachloride
Concen: 101.91 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.3	114.5
121	30.5	24.6	36.8





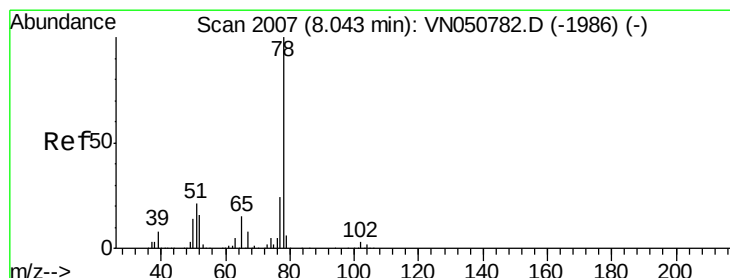
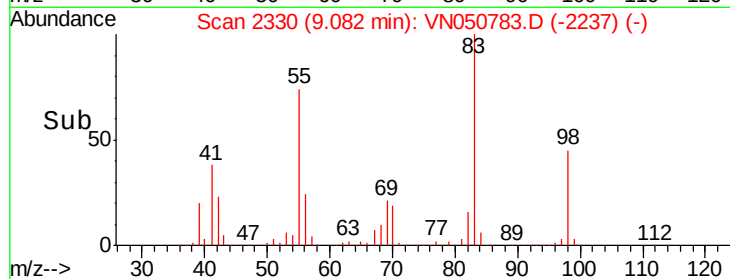
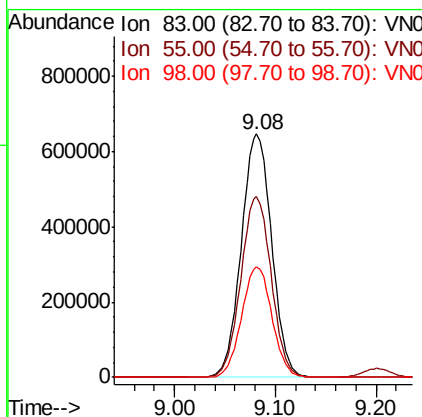
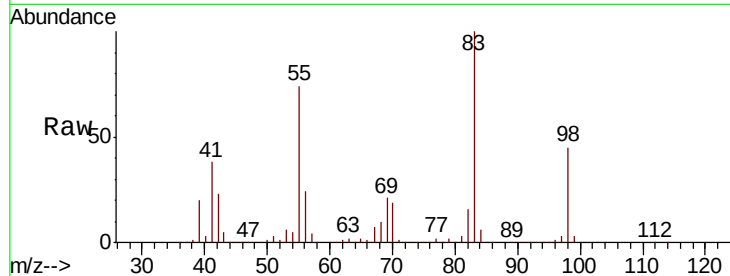
#39
Methylvlcyclohexane
Concen: 110.56 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	83	Resp	1344418
Ion	Ratio	Lower	Upper
83	100		
55	74.3	61.0	91.4
98	45.4	37.5	56.3

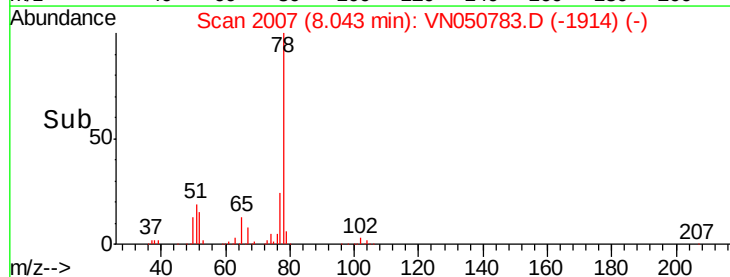
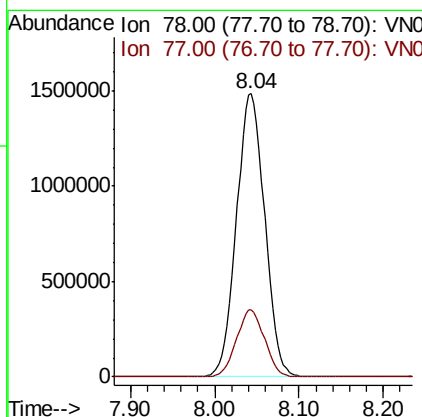
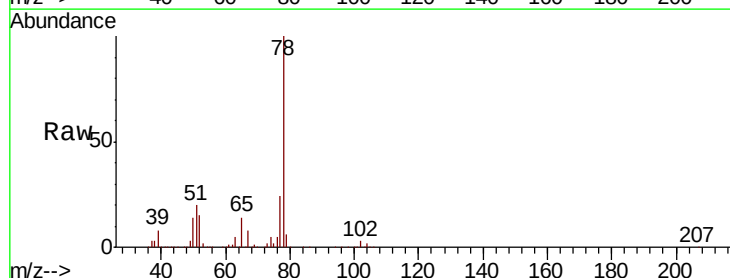
Manual Integrations
APPROVED

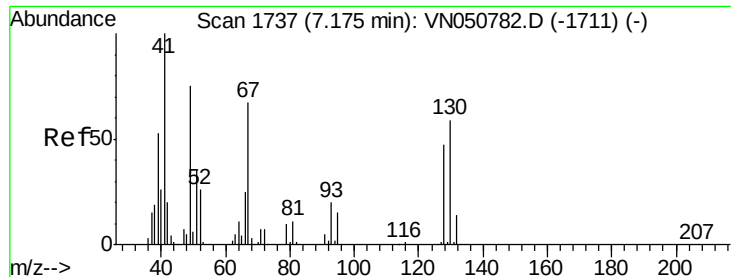
MMDadoda
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#40
Benzene
Concen: 102.44 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion	78	Resp	3472211
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.4





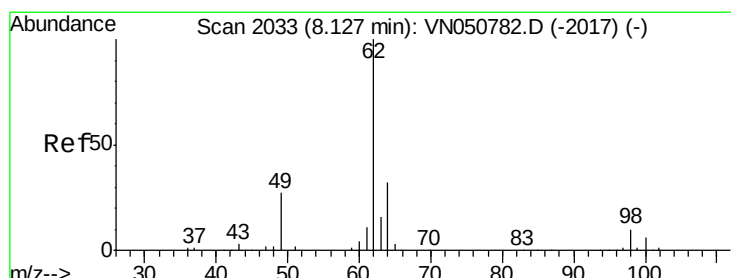
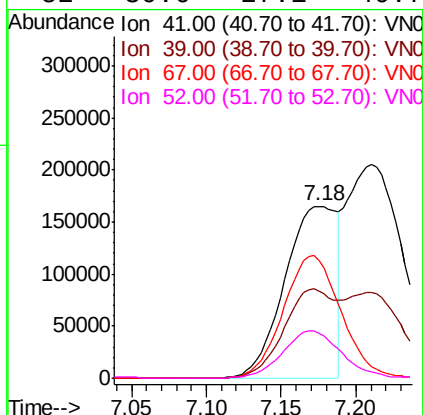
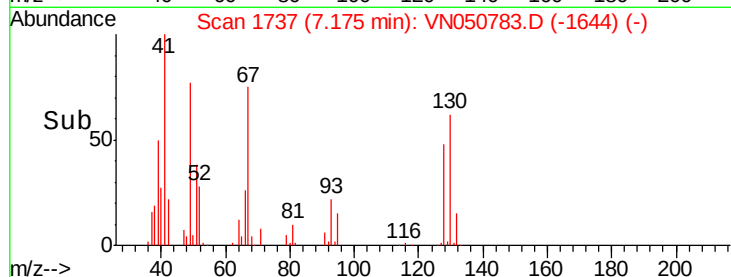
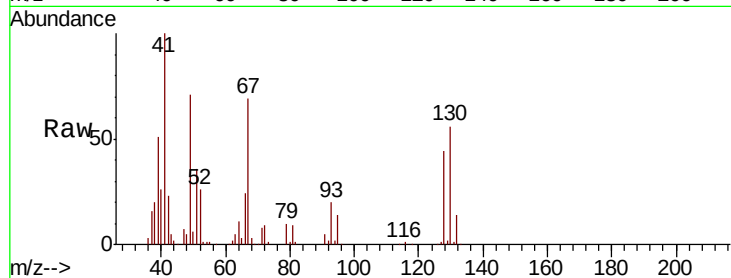
#41
Methacrylonitrile
Concen: 121.46 ug/l
RT: 7.18 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion	41	Resp	397121
Ion Ratio	Lower	Upper	
41	100		
39	50.7	45.4	68.0
67	79.7	70.6	106.0
52	30.6	27.1	40.7

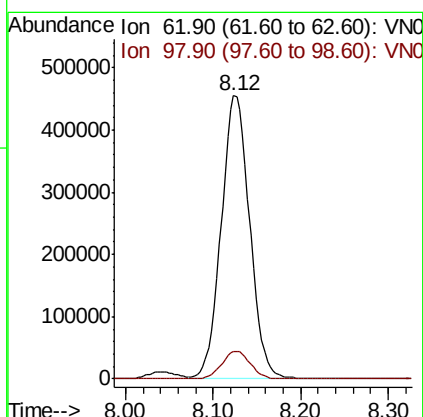
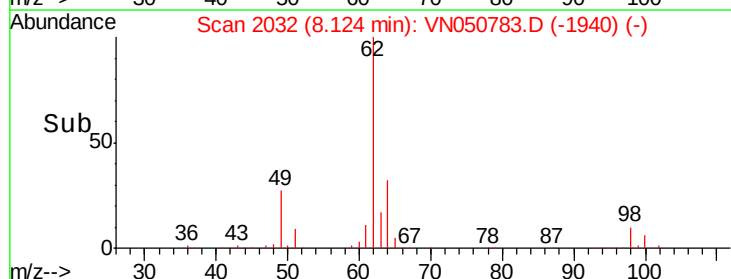
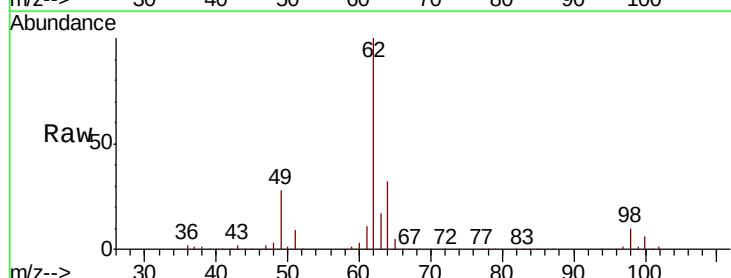
Manual Integrations
APPROVED

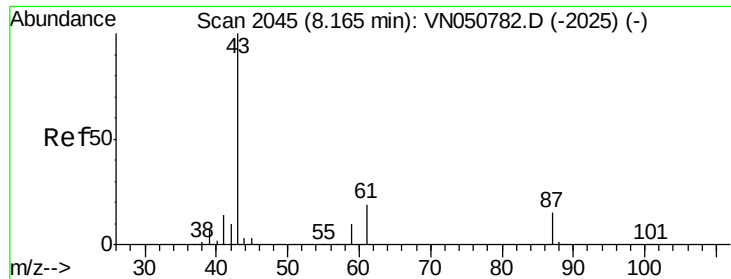
MMDadoda
8/22/2018 11:18:57 AM



#42
1,2-Dichloroethane
Concen: 101.31 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion	62	Resp	1026651
Ion Ratio	Lower	Upper	
62	100		
98	9.8	0.0	19.6





#43

Isopropyl Acetate

Concen: 108.57 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 43 Resp: 1205333

Ion Ratio Lower Upper

43 100

61 21.8 17.5 26.3

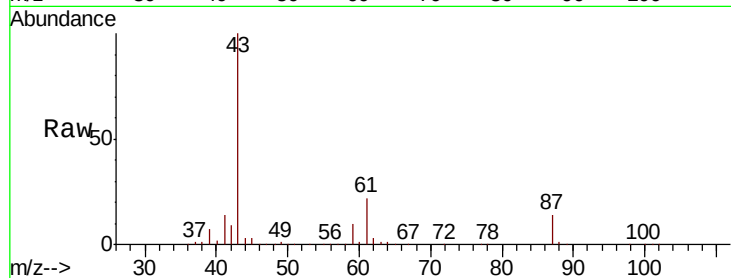
87 14.1 11.3 16.9

Manual Integrations

APPROVED

MMDadoda

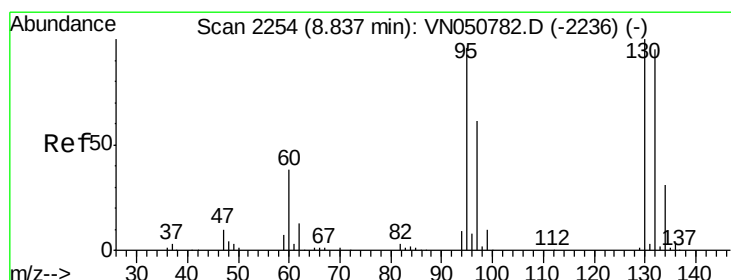
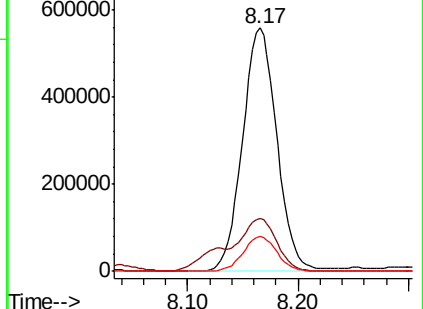
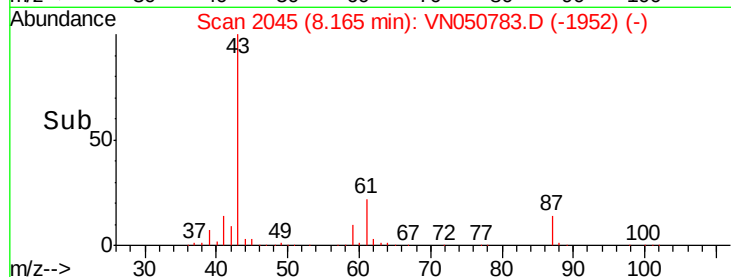
8/22/2018 11:18:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VN050783.D (-1952) (-)

Ion 61.00 (60.70 to 61.70): VN050783.D (-1952) (-)

Ion 87.00 (86.70 to 87.70): VN050783.D (-1952) (-)



#44

Trichloroethene

Concen: 102.45 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN050783.D

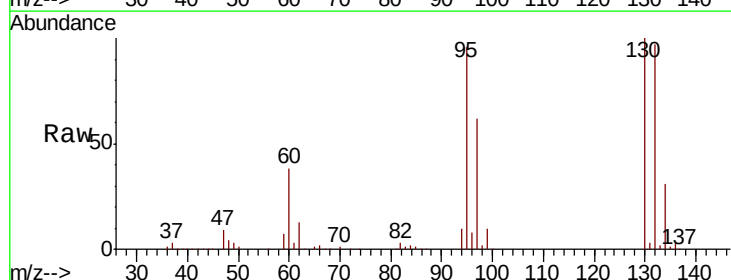
Acq: 21 Aug 2018 11:34

Tgt Ion:130 Resp: 915777

Ion Ratio Lower Upper

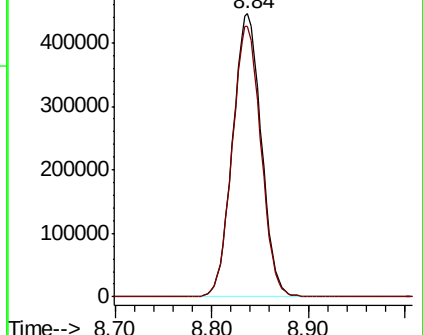
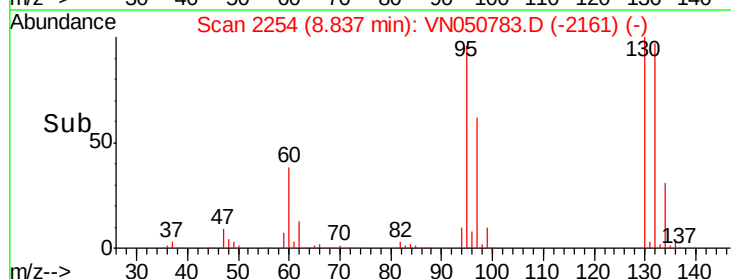
130 100

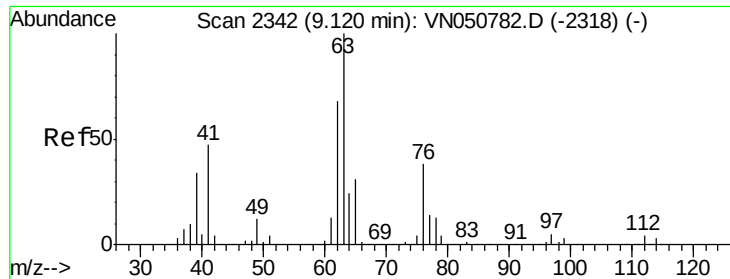
95 95.7 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): VN050783.D (-2161) (-)

Ion 94.90 (94.60 to 95.60): VN050783.D (-2161) (-)





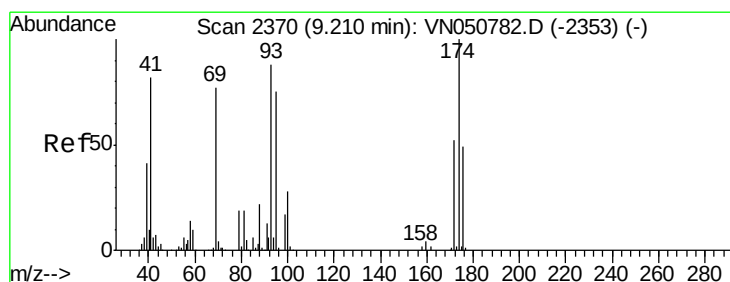
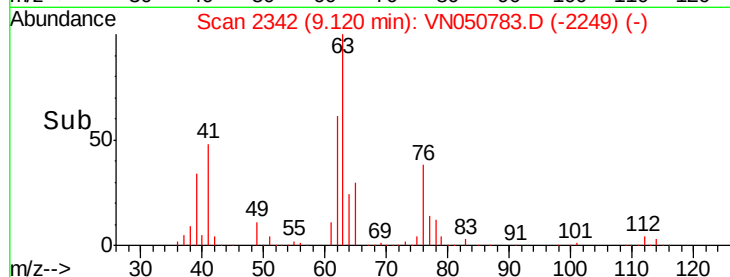
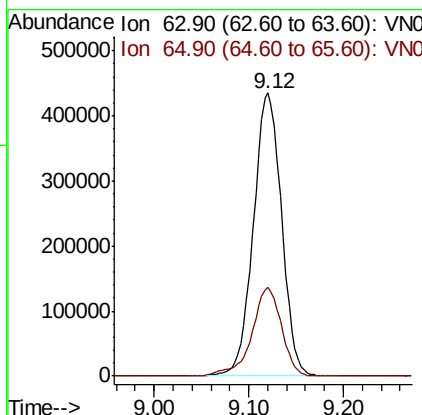
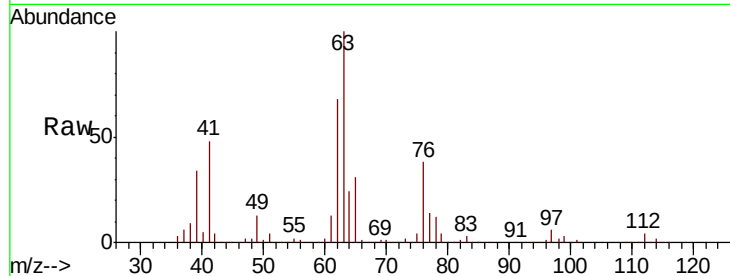
#45
 1,2-Dichloropropane
 Concen: 101.12 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
65	31.3	25.0	37.6	

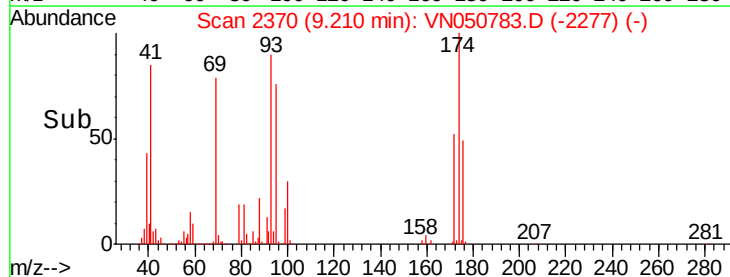
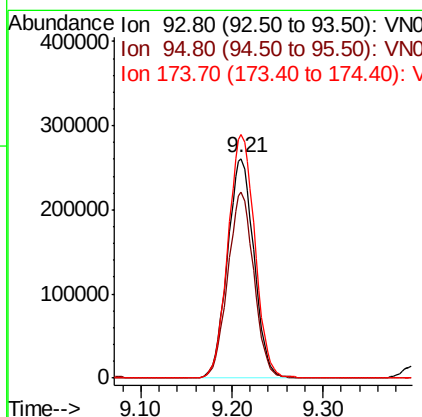
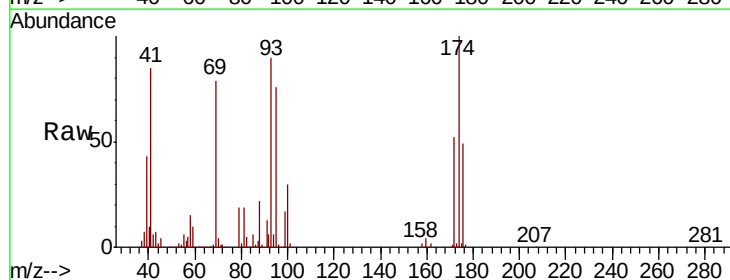
Manual Integrations
 APPROVED

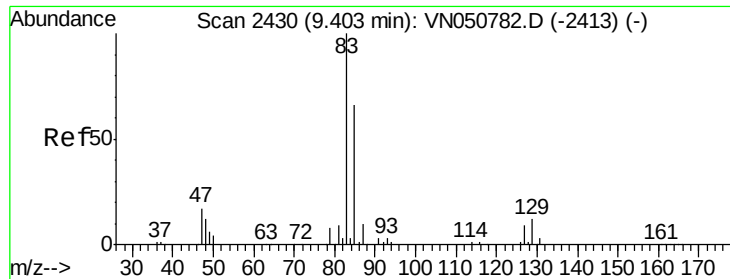
MMDadoda
 8/22/2018 11:18:57 AM



#46
 Dibromomethane
 Concen: 101.31 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Tgt Ion	Ratio	Resp	Lower	Upper
93	100			
95	82.9	66.7	100.1	
174	112.0	89.8	134.6	





#47

Bromodichloromethane

Concen: 103.05 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1129778

Ion Ratio Lower Upper

83 100

85 64.6 52.6 78.8

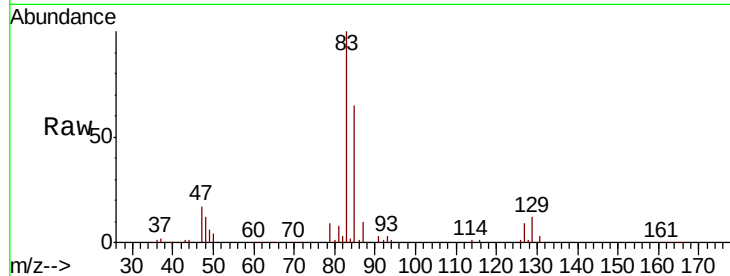
127 8.9 7.2 10.8

Manual Integrations

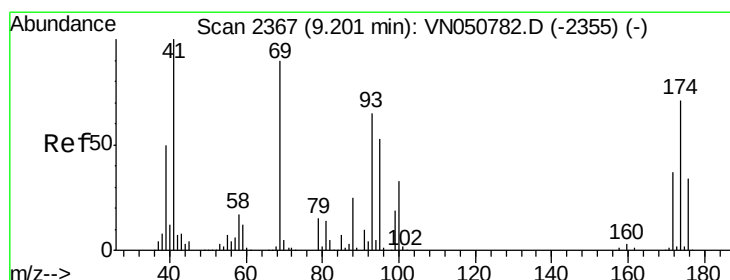
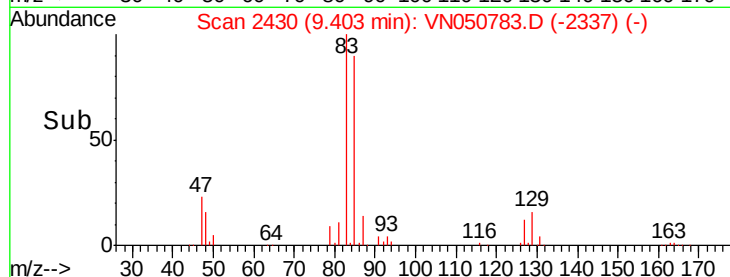
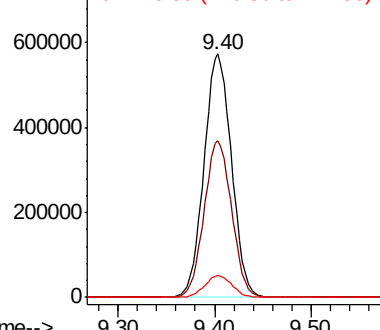
APPROVED

MMDadoda

8/22/2018 11:18:57 AM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 109.82 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

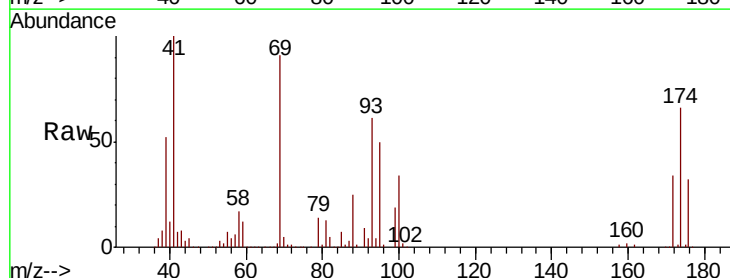
Tgt Ion: 41 Resp: 621306

Ion Ratio Lower Upper

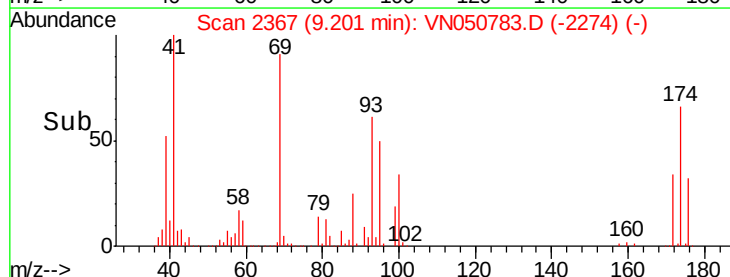
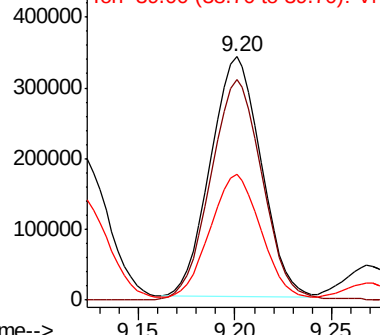
41 100

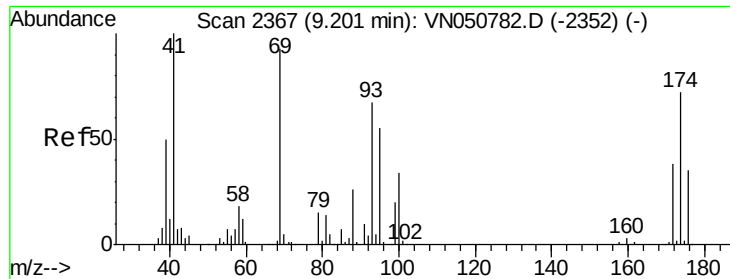
69 94.2 74.7 112.1

39 53.1 42.2 63.2



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





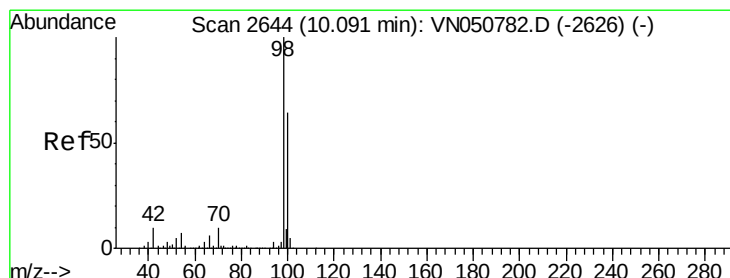
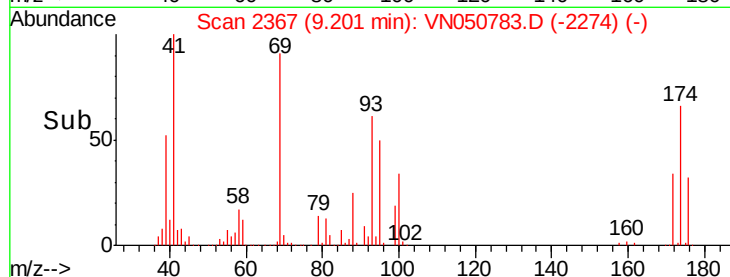
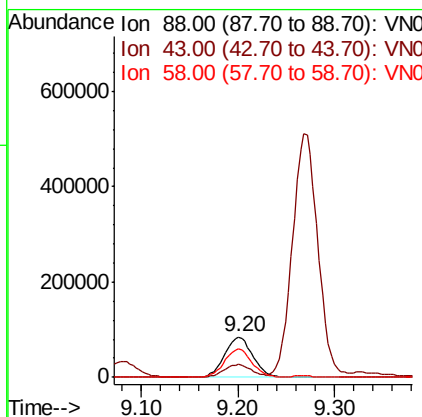
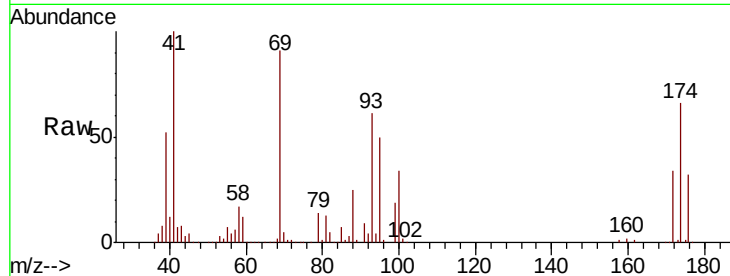
#49
1,4-Dioxane
Concen: 2239.63 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	88	Resp	172738
Ion	Ratio	Lower	Upper
88	100		
43	30.4	25.9	38.9
58	67.6	55.0	82.4

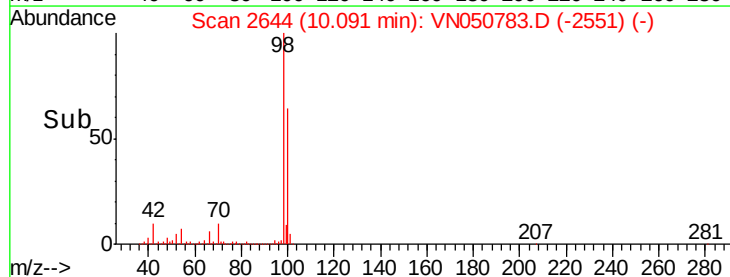
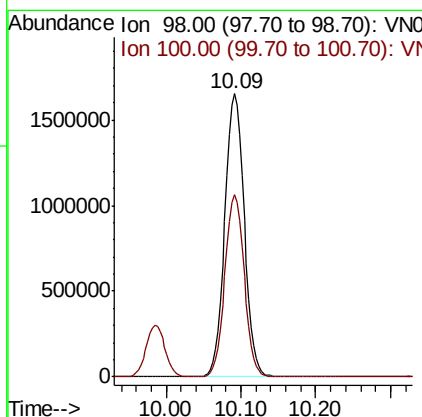
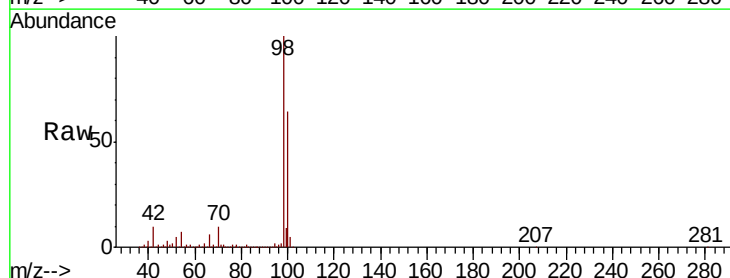
Manual Integrations
APPROVED

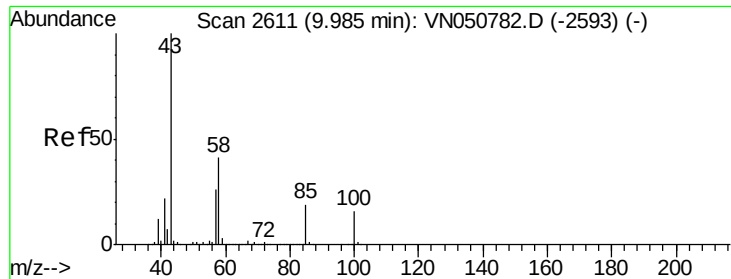
MMDadoda
8/22/2018 11:18:57 AM



#50
Toluene-d8
Concen: 104.95 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion	98	Resp	2973393
Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.5	77.3





#51

4-Methyl-2-Pentanone

Concen: 506.16 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 3353251

Ion Ratio Lower Upper

43 100

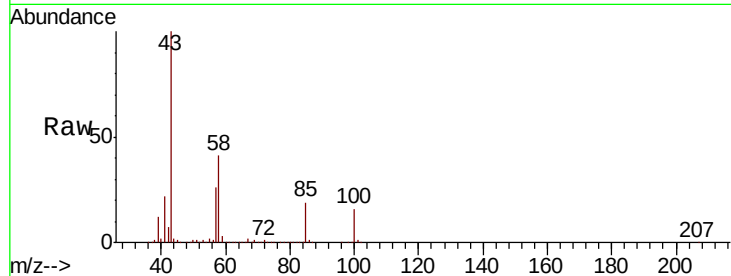
58 41.3 32.4 48.6

Manual Integrations

APPROVED

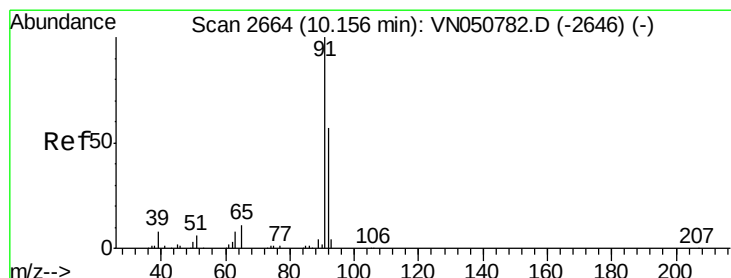
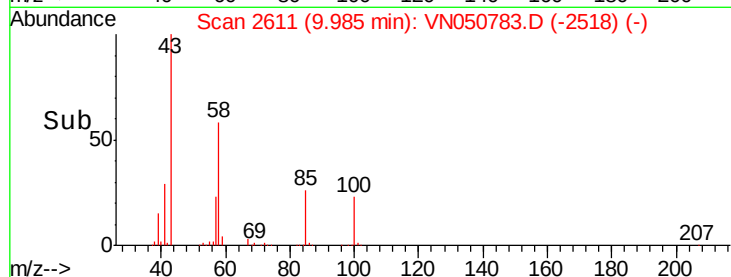
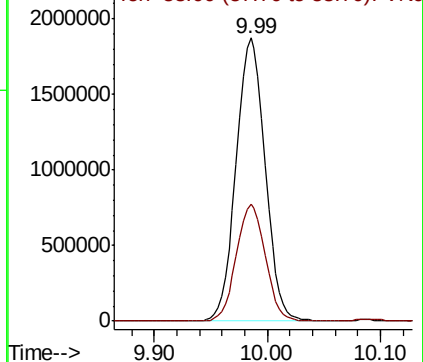
MMDadoda

8/22/2018 11:18:57 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 107.63 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.00 min

Lab File: VN050783.D

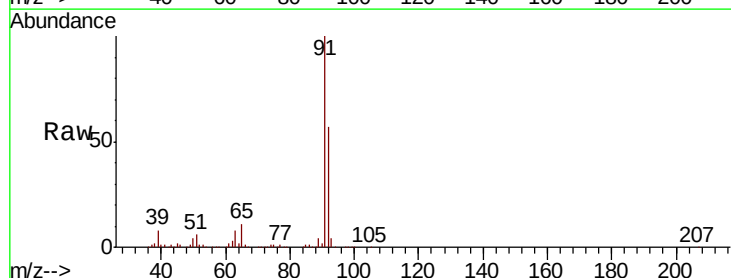
Acq: 21 Aug 2018 11:34

Tgt Ion: 92 Resp: 2161019

Ion Ratio Lower Upper

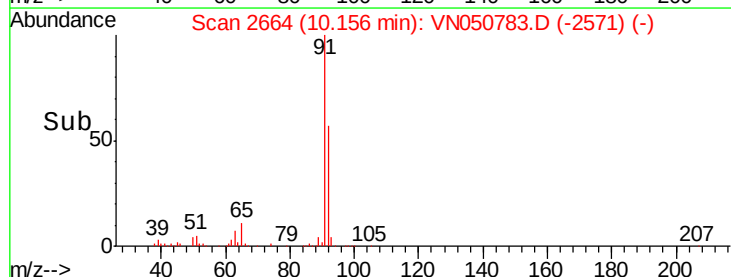
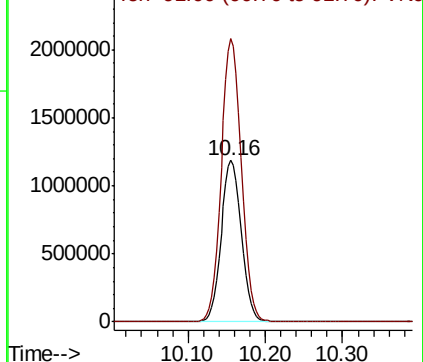
92 100

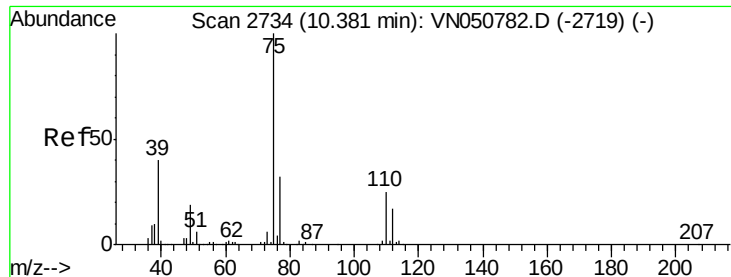
91 174.5 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





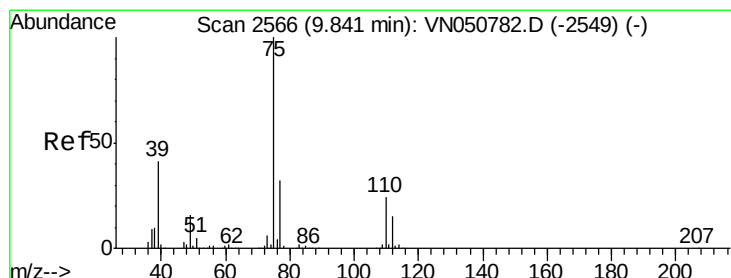
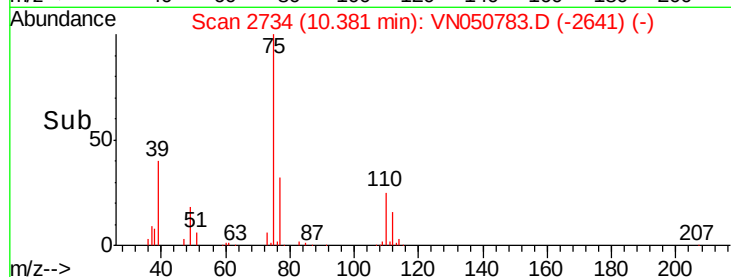
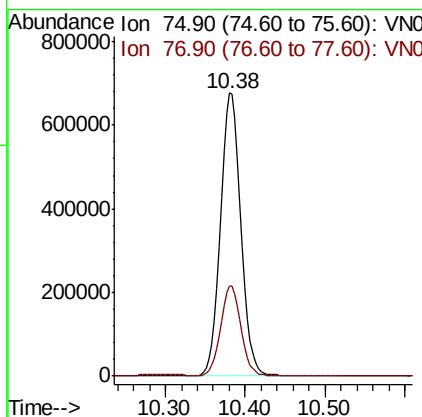
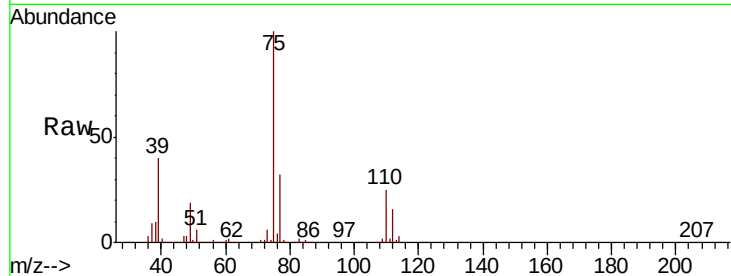
#53
t-1,3-Dichloropropene
Concen: 109.55 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 75 Resp: 1195366
Ion Ratio Lower Upper
75 100
77 31.7 25.7 38.5

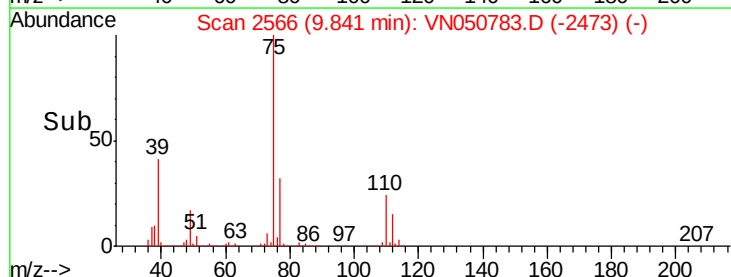
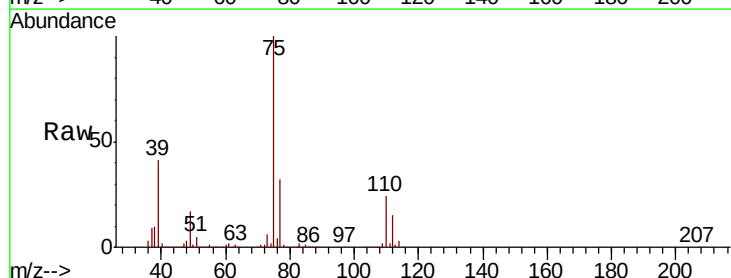
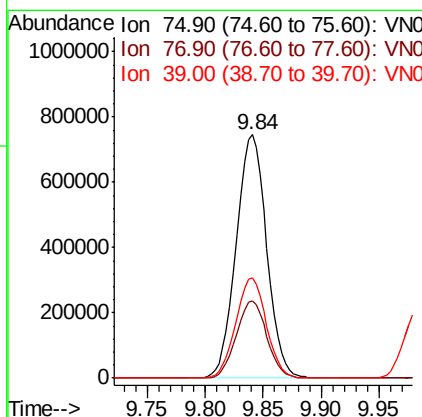
Manual Integrations
APPROVED

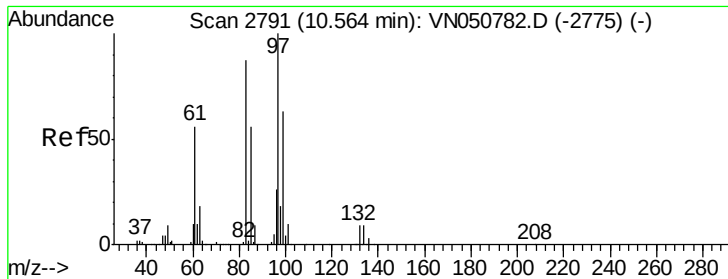
MMDadoda
8/22/2018 11:18:57 AM



#54
cis-1,3-Dichloropropene
Concen: 108.68 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion: 75 Resp: 1357999
Ion Ratio Lower Upper
75 100
77 31.7 25.4 38.2
39 41.1 33.0 49.4





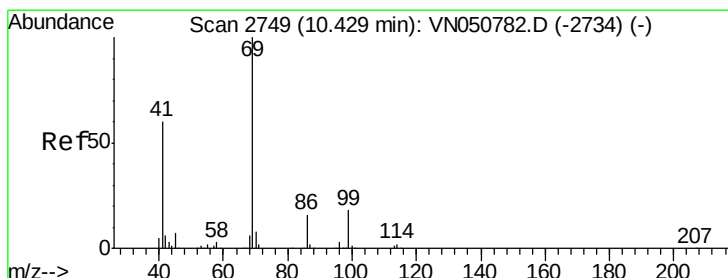
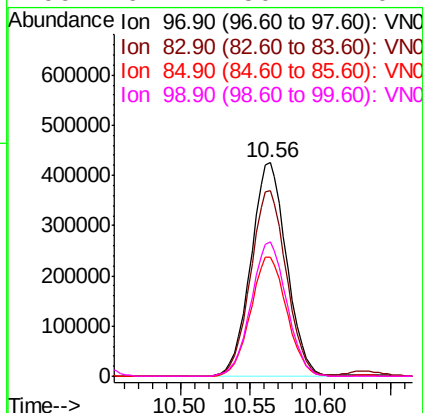
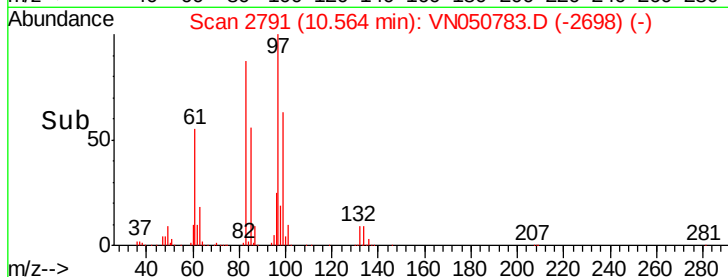
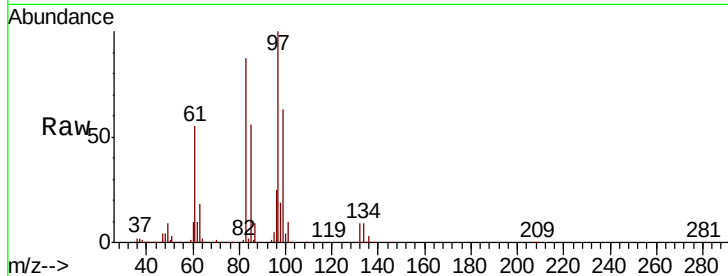
#55
 1,1,2-Trichloroethane
 Concen: 101.13 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	753640
Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.7	104.5
85	55.9	44.5	66.7
99	62.7	50.7	76.1

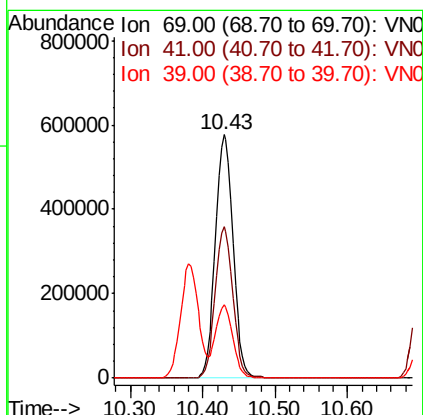
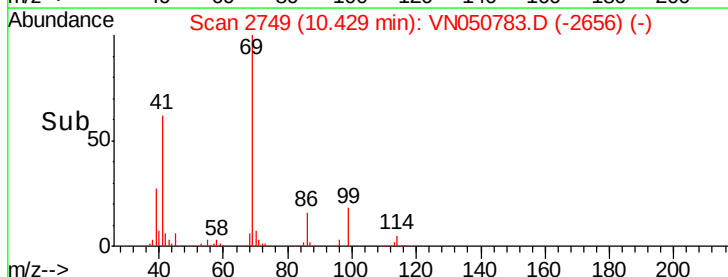
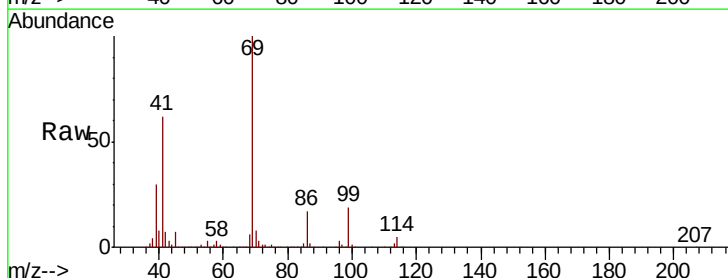
Manual Integrations
 APPROVED

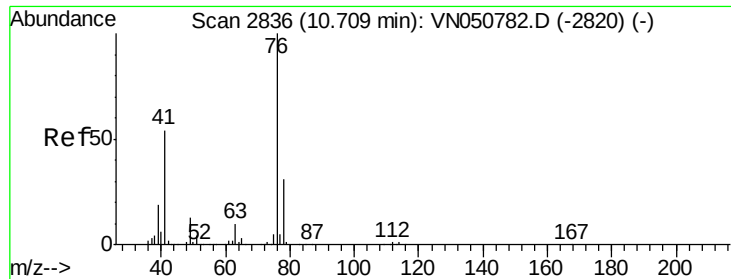
MMDadoda
 8/22/2018 11:18:57 AM



#56
 Ethyl methacrylate
 Concen: 116.44 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Tgt Ion:	69	Resp:	984199
Ion	Ratio	Lower	Upper
69	100		
41	61.1	48.3	72.5
39	29.7	24.0	36.0





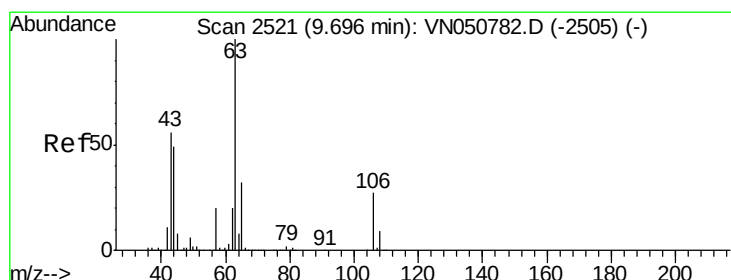
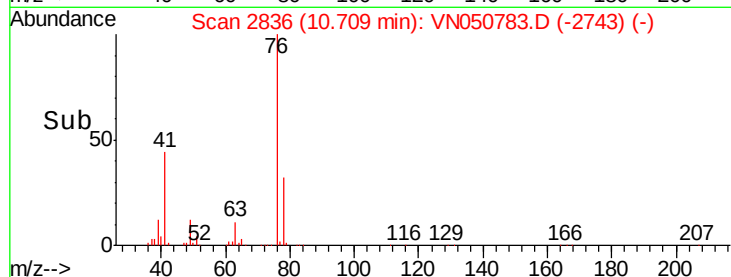
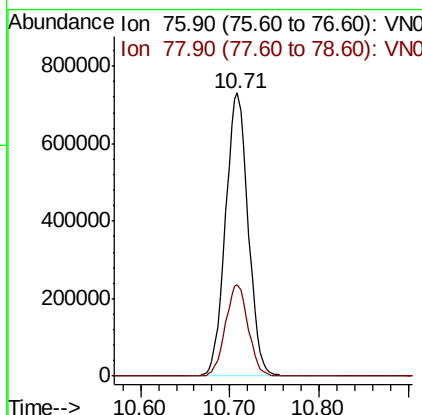
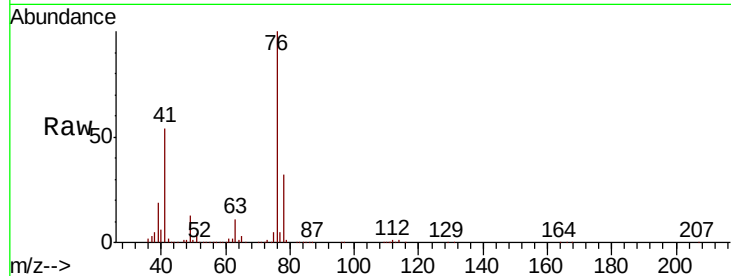
#57
 1,3-Dichloropropane
 Concen: 104.34 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion: 76 Resp: 1283466
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.5 38.3

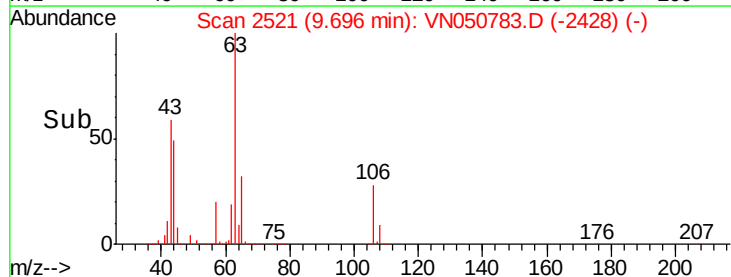
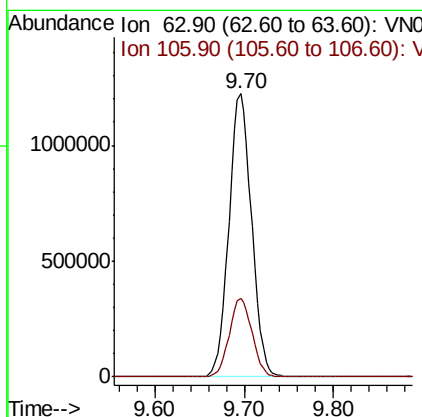
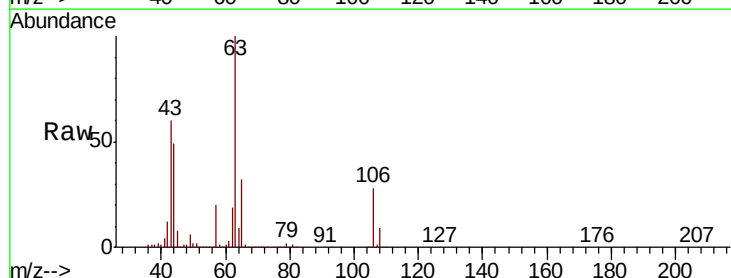
Manual Integrations
 APPROVED

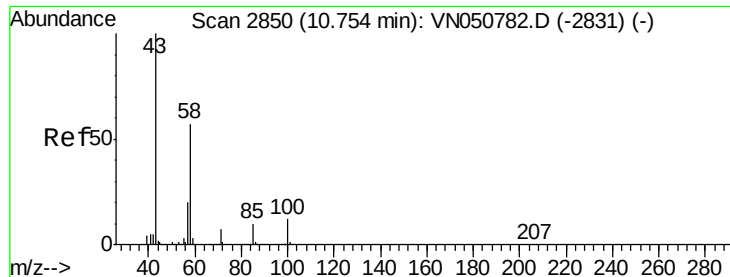
MMDadoda
 8/22/2018 11:18:57 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 596.42 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Tgt Ion: 63 Resp: 2152437
 Ion Ratio Lower Upper
 63 100
 106 27.7 21.9 32.9





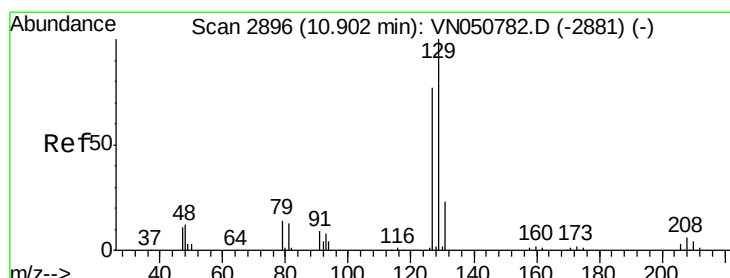
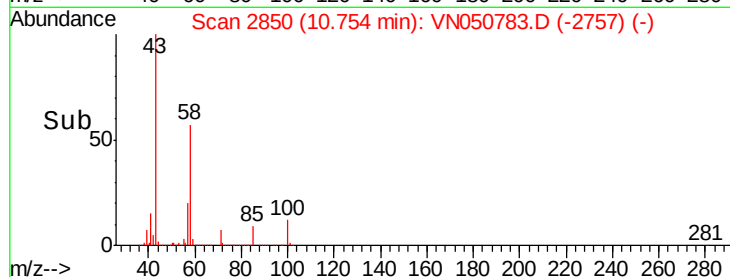
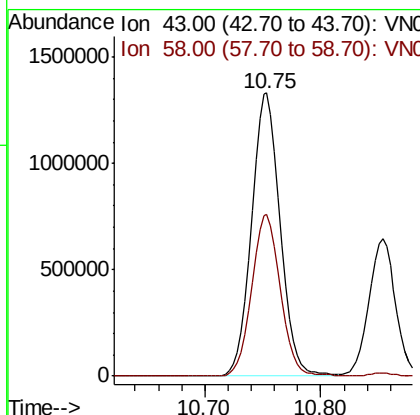
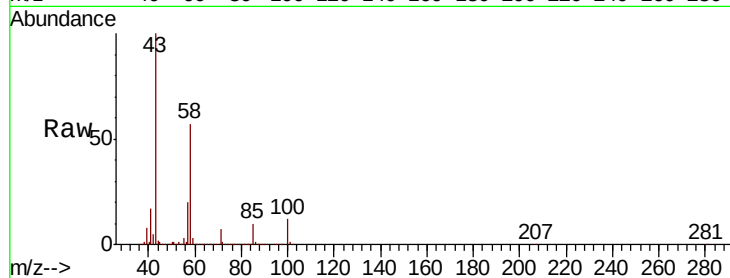
#59
2-Hexanone
Concen: 519.70 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tot Ion: 43 Resp: 2292037
Ion Ratio Lower Upper
43 100
58 57.4 28.3 85.0

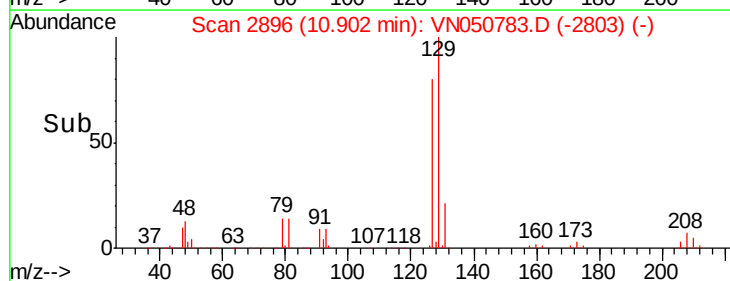
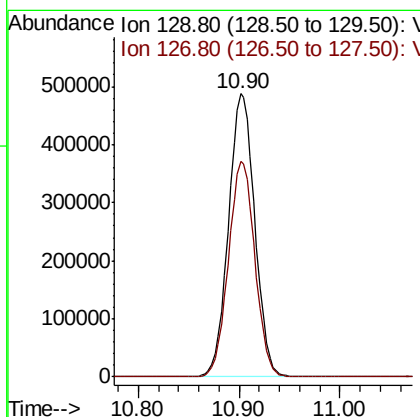
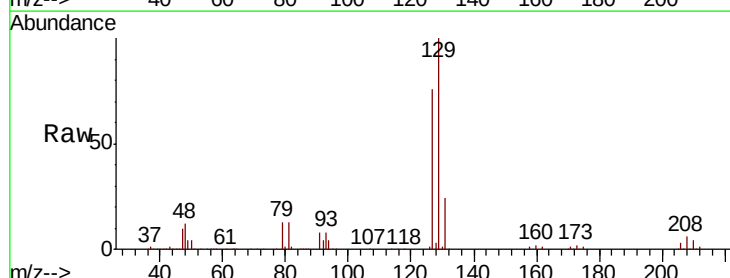
Manual Integrations
APPROVED

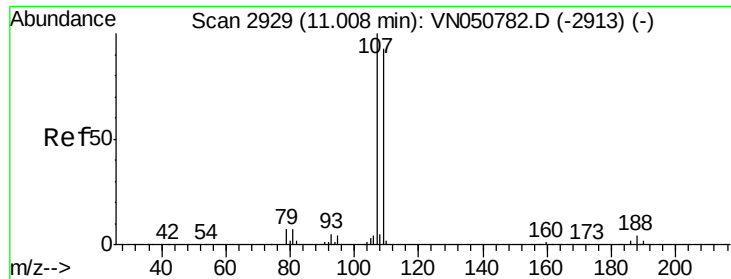
MMDadoda
8/22/2018 11:18:57 AM



#60
Dibromochloromethane
Concen: 106.15 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion: 129 Resp: 885703
Ion Ratio Lower Upper
129 100
127 76.7 38.3 114.9





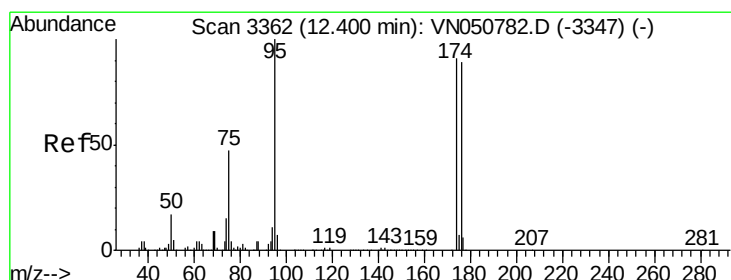
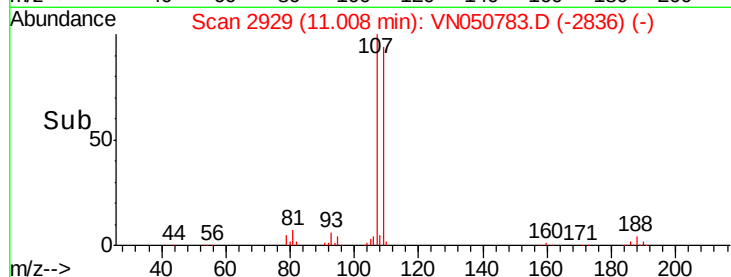
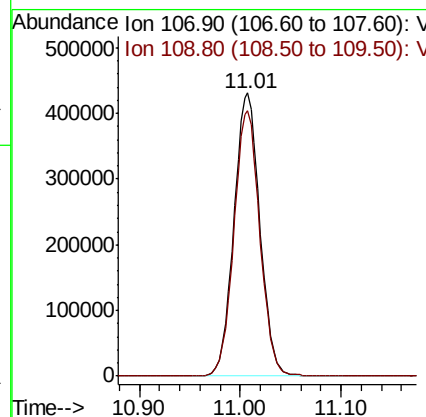
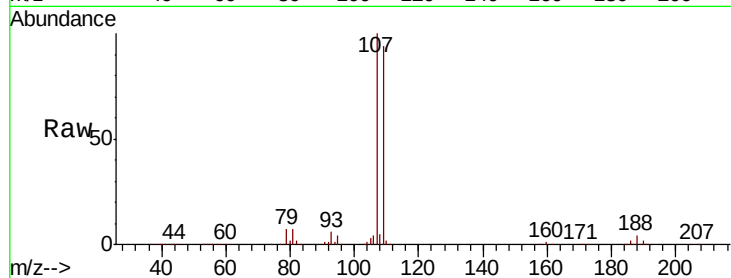
#61
1,2-Dibromoethane
Concen: 106.97 ug/l
RT: 11.01 min Scan# 2929
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.4	113.2

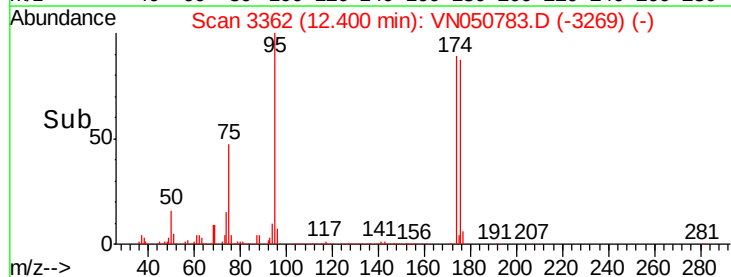
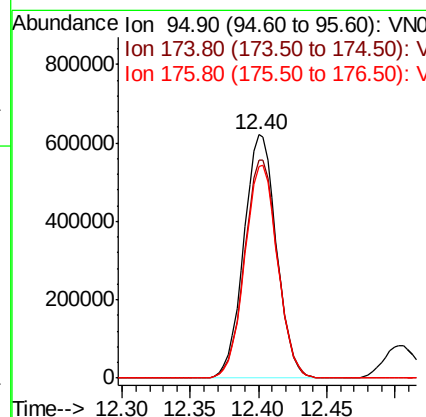
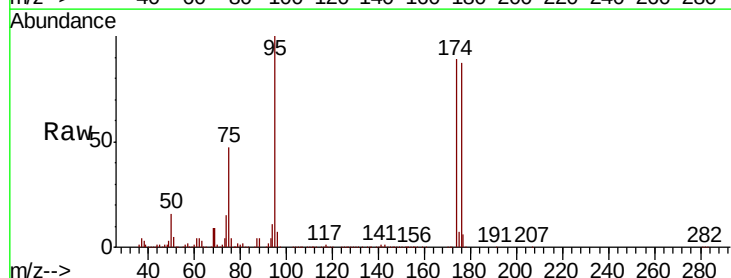
Manual Integrations
APPROVED

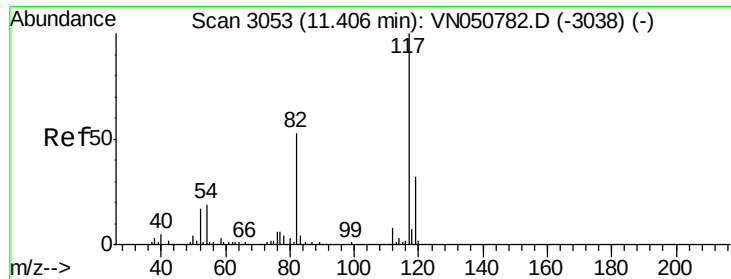
MMDadoda
8/22/2018 11:18:57 AM



#62
4-Bromofluorobenzene
Concen: 109.63 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.3	0.0	183.0
176	87.9	0.0	178.8





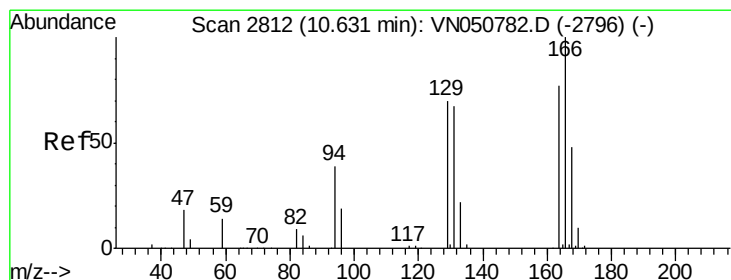
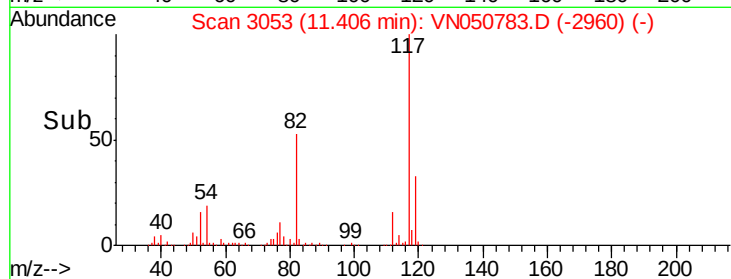
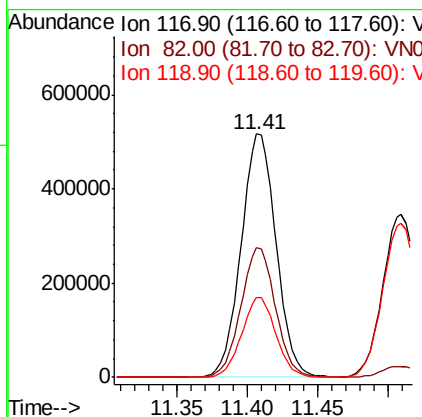
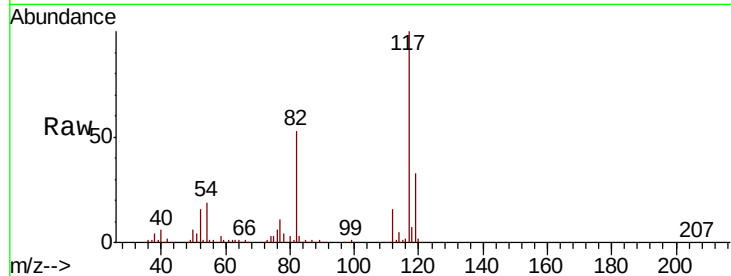
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
117	100	899954		
82	53.2	42.6	64.0	
119	32.7	25.8	38.6	

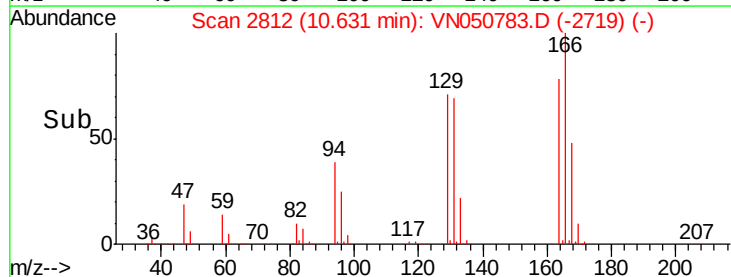
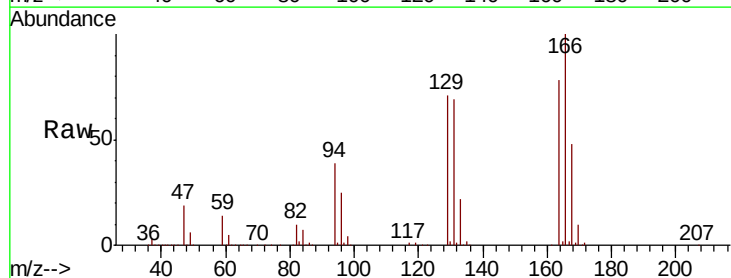
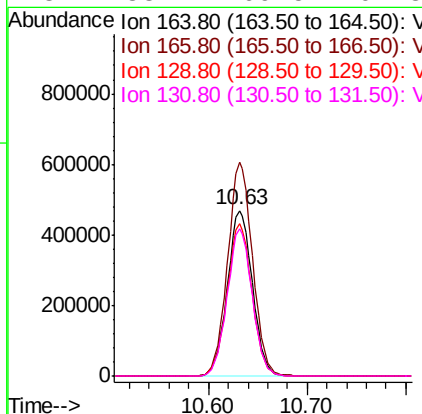
Manual Integrations
APPROVED

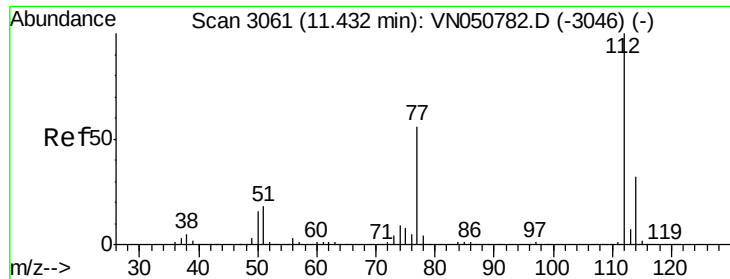
MMDadoda
8/22/2018 11:18:57 AM



#64
Tetrachloroethene
Concen: 97.58 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	834149		
166	129.0	103.5	155.3	
129	92.0	72.7	109.1	
131	88.7	69.5	104.3	





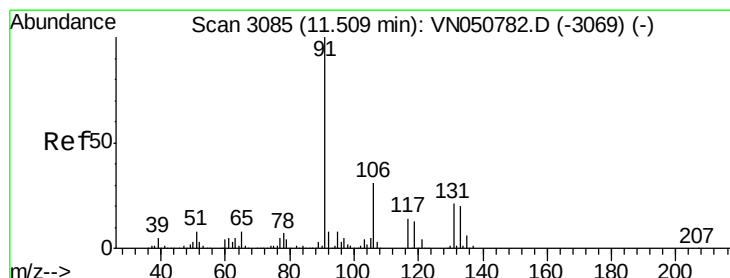
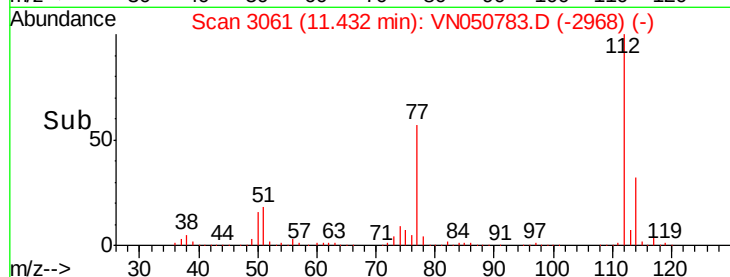
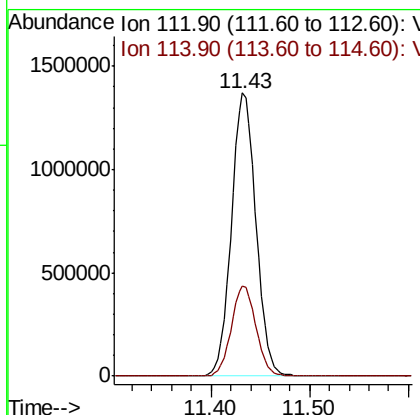
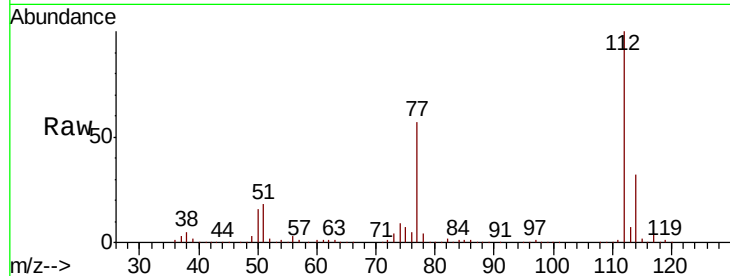
#65
Chlorobenzene
Concen: 100.89 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:112 Resp: 2373208
Ion Ratio Lower Upper
112 100
114 31.8 25.6 38.4

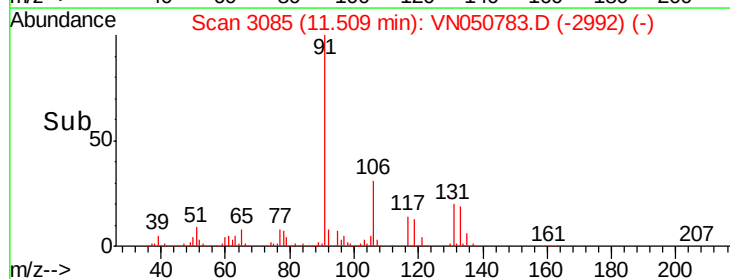
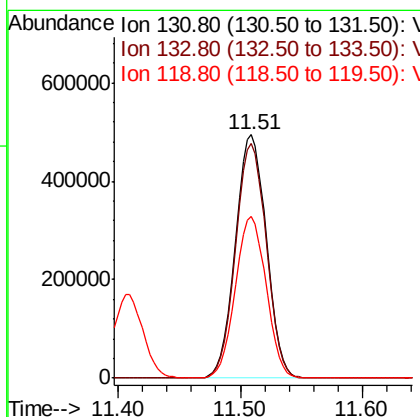
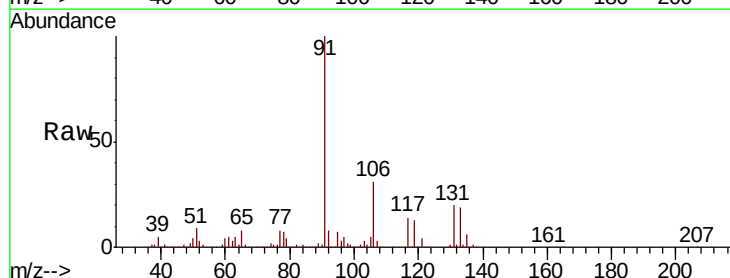
Manual Integrations
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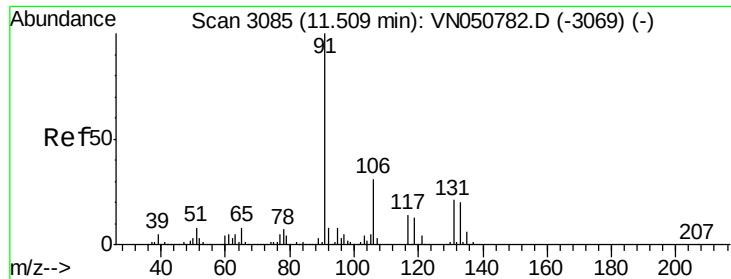
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 100.49 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion:131 Resp: 864888
Ion Ratio Lower Upper
131 100
133 95.9 47.4 142.3
119 66.4 32.8 98.4





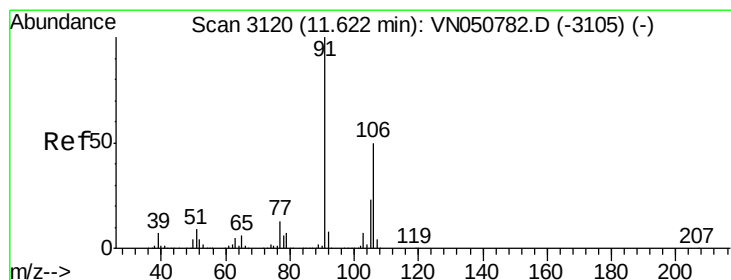
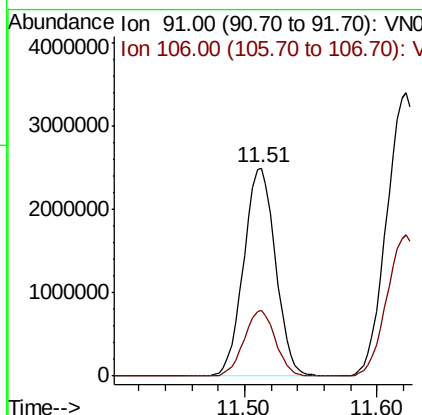
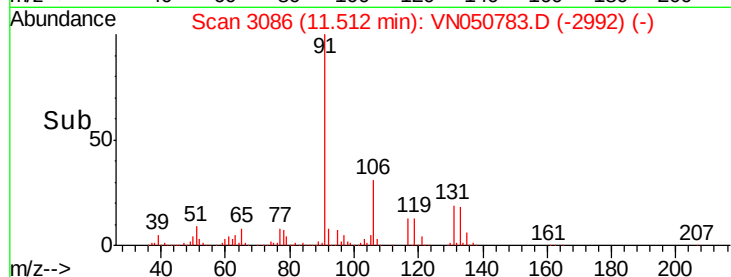
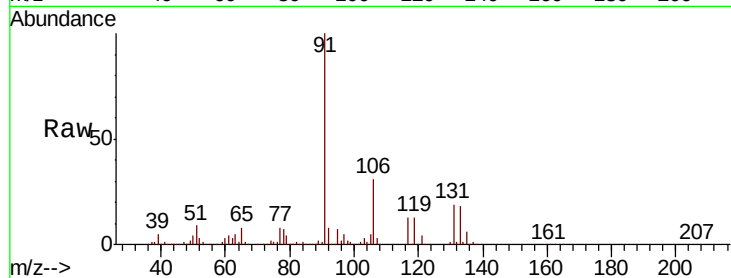
#67
Ethyl Benzene
Concen: 108.97 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion: 91 Resp: 4167342
Ion Ratio Lower Upper
91 100
106 31.4 25.0 37.4

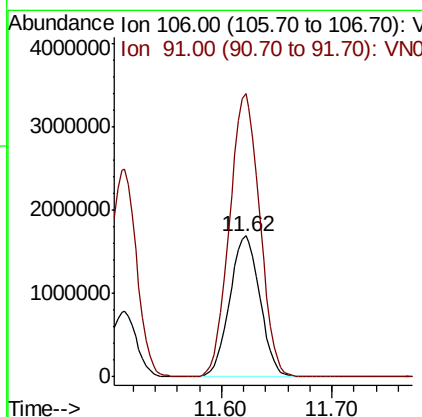
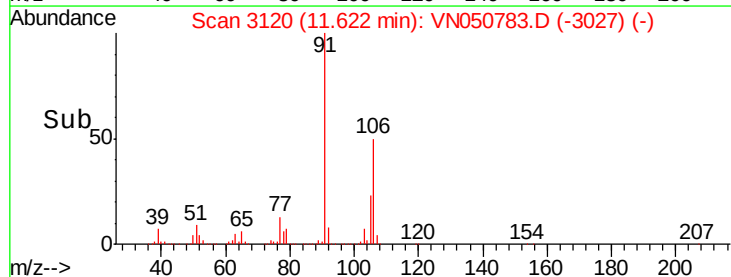
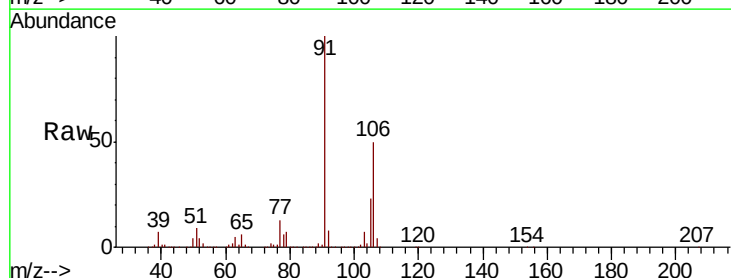
Manual Integrations
APPROVED

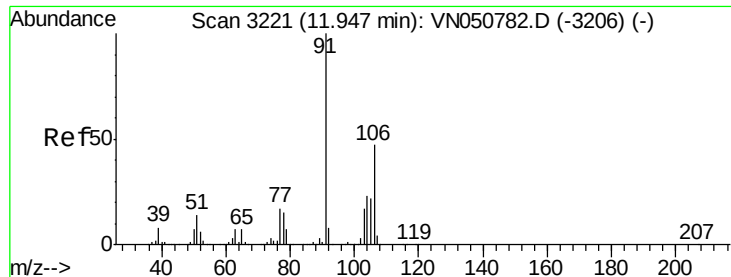
MMDadoda
8/22/2018 11:18:57 AM



#68
m/p-Xylenes
Concen: 220.66 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion: 106 Resp: 3203031
Ion Ratio Lower Upper
106 100
91 201.1 161.0 241.6





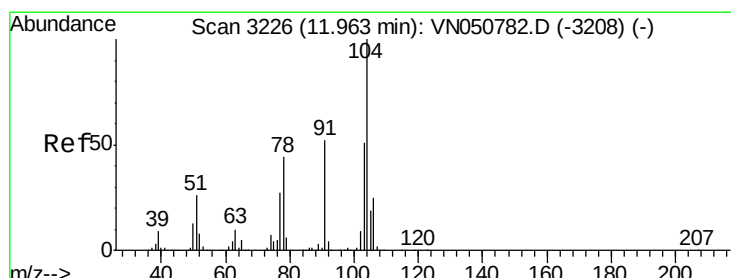
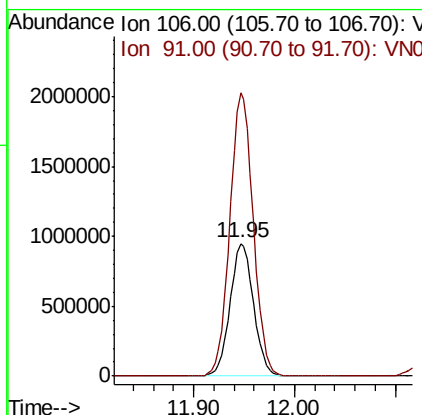
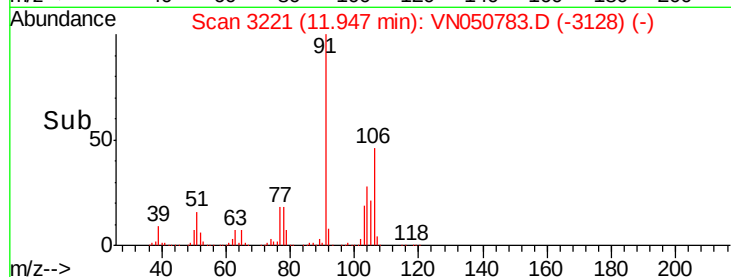
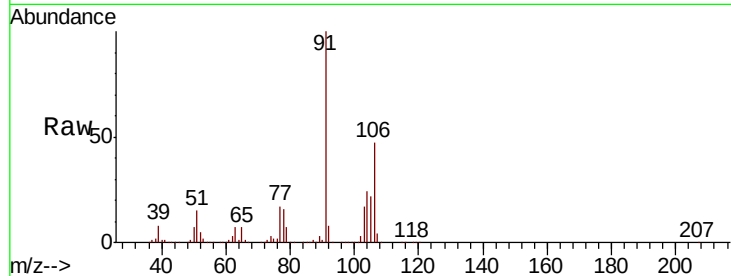
#69
o-Xylene
Concen: 110.23 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion:106 Resp: 1538292
Ion Ratio Lower Upper
106 100
91 213.3 106.5 319.5

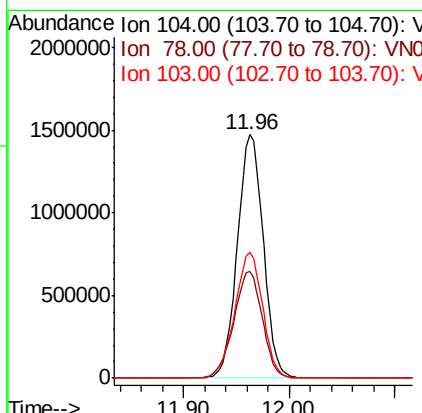
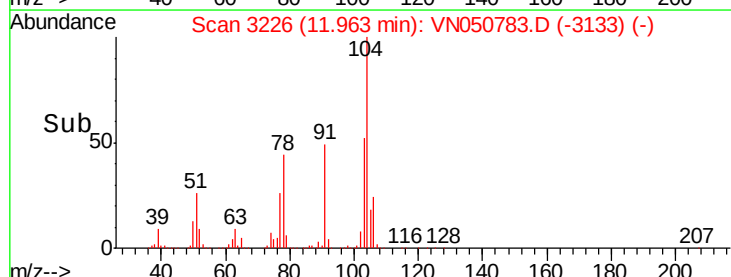
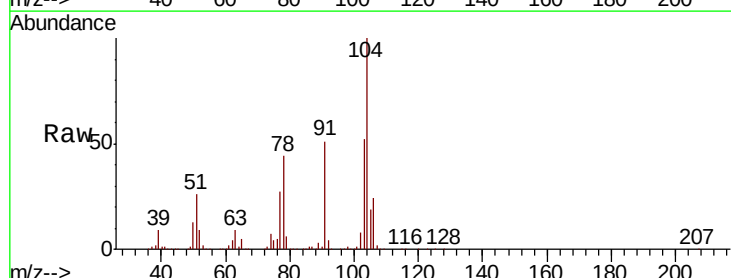
Manual Integrations
APPROVED

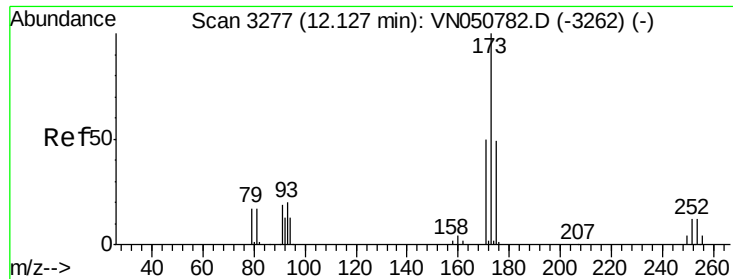
MMDadoda
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#70
Styrene
Concen: 114.81 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050783.D
Acq: 21 Aug 2018 11:34

Tgt Ion:104 Resp: 2504694
Ion Ratio Lower Upper
104 100
78 48.3 38.2 57.4
103 55.7 44.4 66.6





#71

Bromoform

Concen: 106.55 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:173 Resp: 630662

Ion Ratio Lower Upper

173 100

175 48.7 24.4 73.4

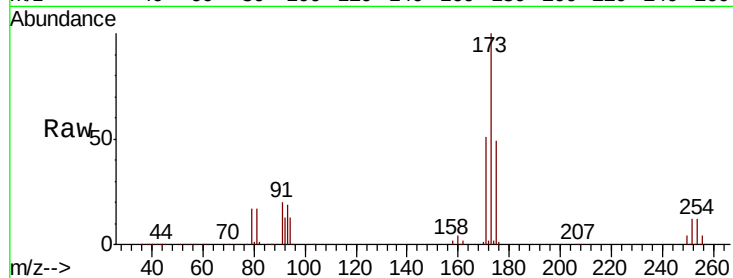
254 0.1 0.1 0.1#

Manual Integrations

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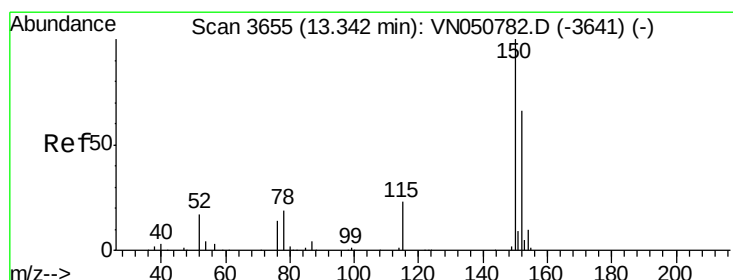
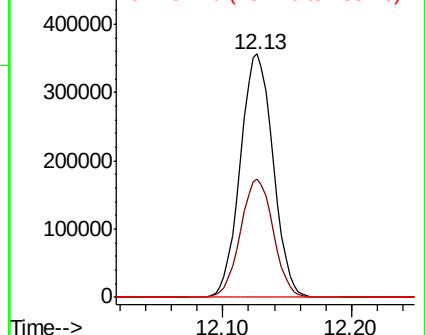
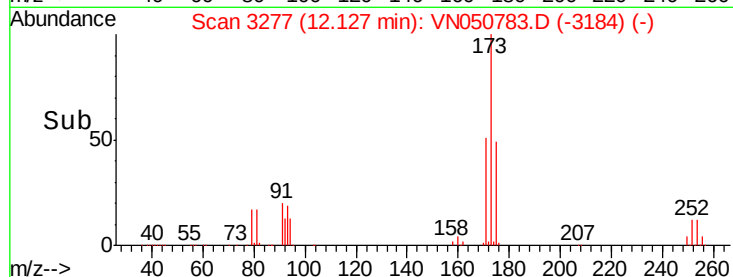
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Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.34 min Scan# 3655

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

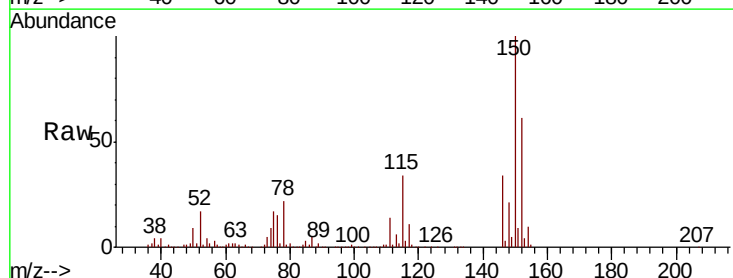
Tgt Ion:152 Resp: 495246

Ion Ratio Lower Upper

152 100

115 55.5 27.8 83.4

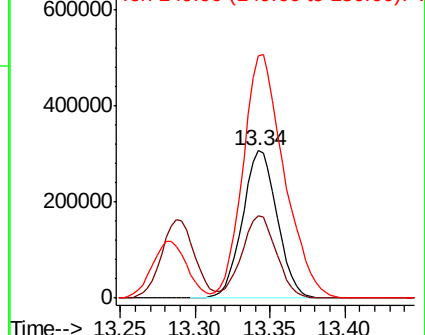
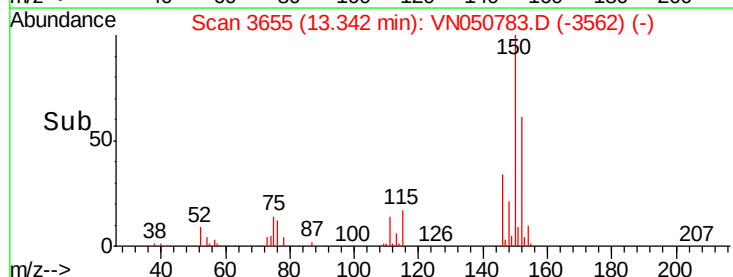
150 195.5 0.0 351.4

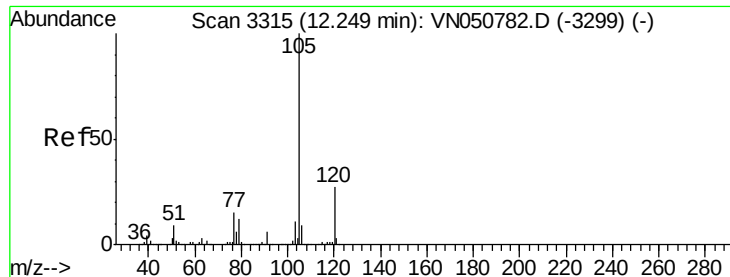


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 99.26 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:105 Resp: 4070283

Ion Ratio Lower Upper

105 100

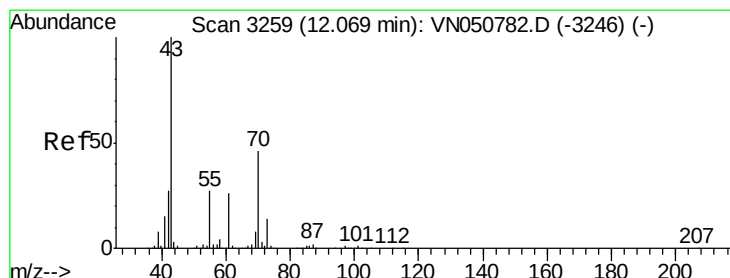
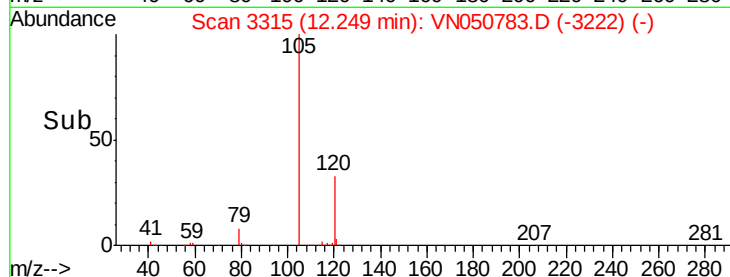
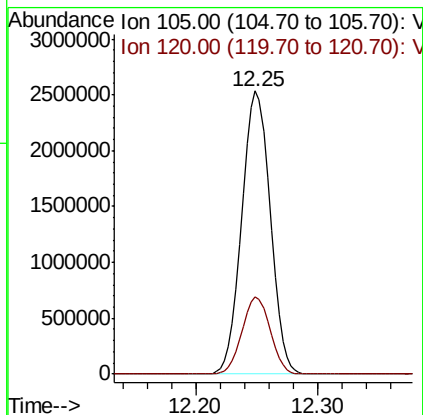
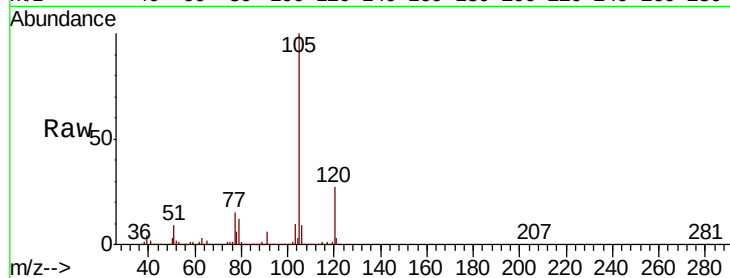
120 27.0 13.5 40.4

Manual Integrations

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#74

N-ethyl acetate

Concen: 104.64 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Tgt Ion: 43 Resp: 1078243

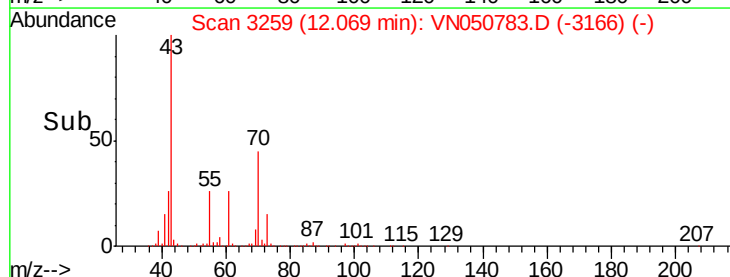
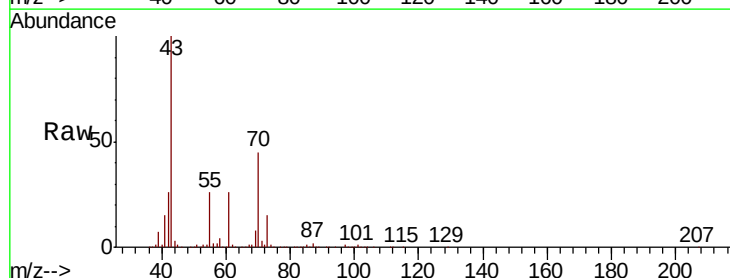
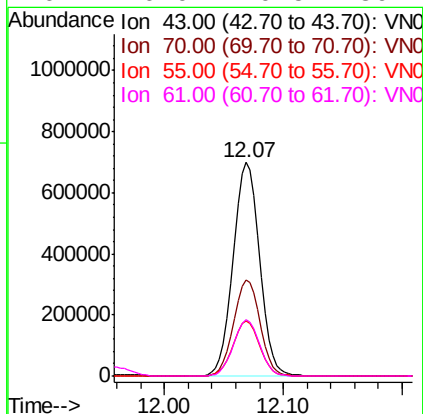
Ion Ratio Lower Upper

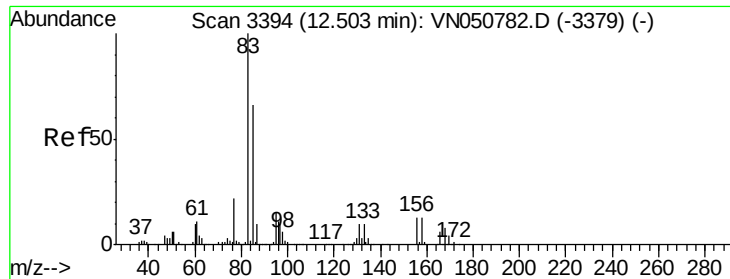
43 100

70 45.1 36.2 54.2

55 26.2 21.8 32.8

61 26.0 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 86.85 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

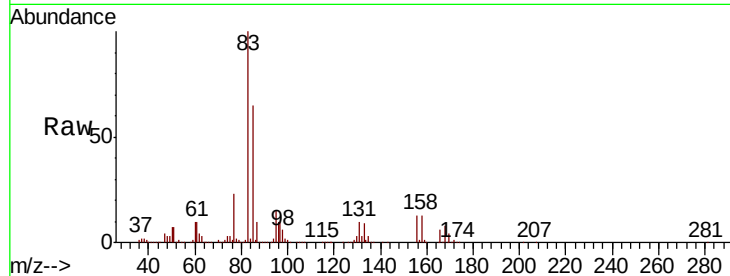
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	959601
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.3	15.9
85	64.5	31.9	95.7

Manual Integrations
APPROVED

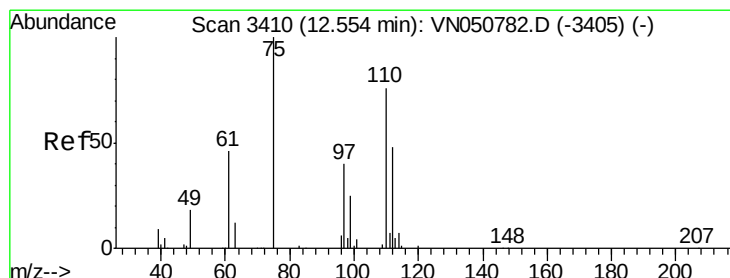
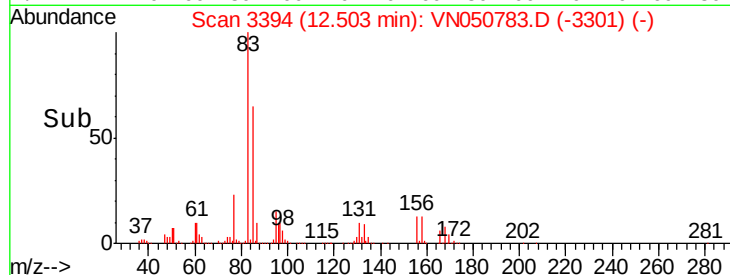
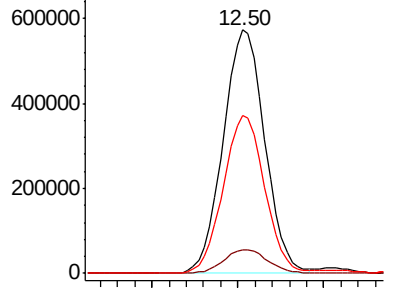
MMDadoda
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Abundance Ion 82.90 (82.60 to 83.60): VN050782.D (-3379) (-)

Ion 130.80 (130.50 to 131.50): VN050782.D (-3379) (-)

Ion 84.90 (84.60 to 85.60): VN050782.D (-3379) (-)



#76

1,2,3-Trichloropropane

Concen: 91.81 ug/l m

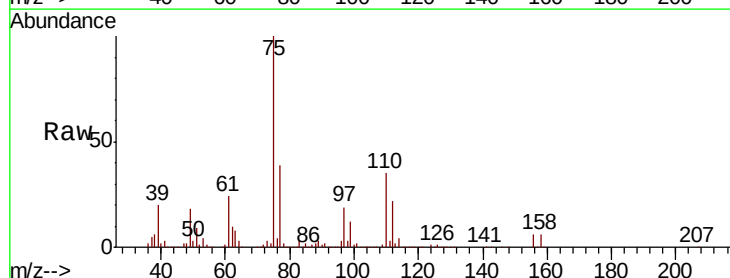
RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN050783.D

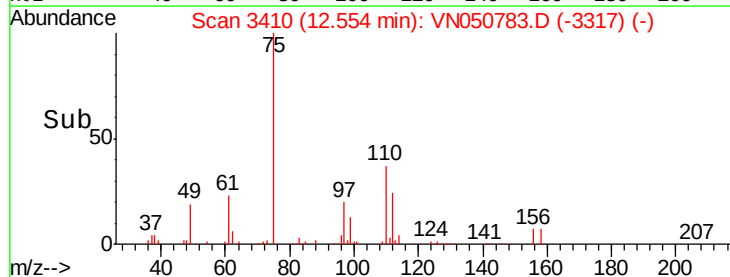
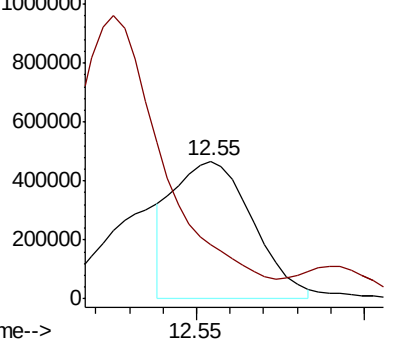
Acq: 21 Aug 2018 11:34

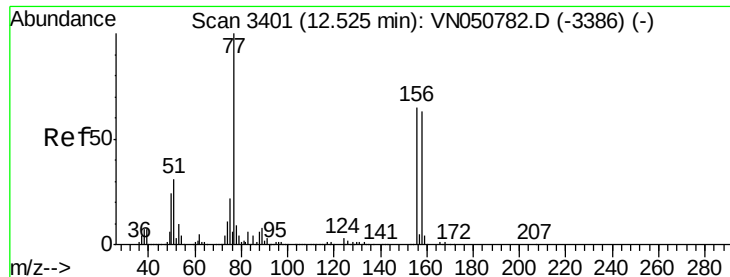
Tgt Ion:	75	Resp:	770907
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050782.D (-3405) (-)

Ion 77.00 (76.70 to 77.70): VN050782.D (-3405) (-)





#77

Bromobenzene

Concen: 94.34 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:156 Resp: 1051381

Ion Ratio Lower Upper

156 100

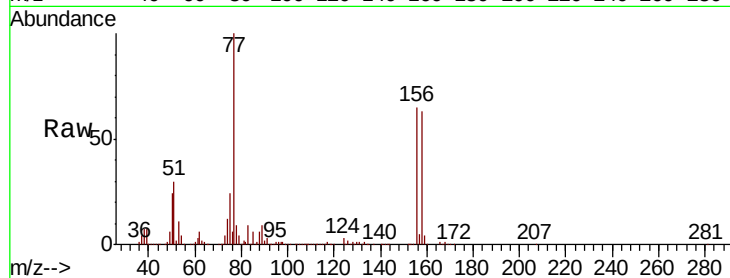
77 177.6 89.9 269.7

158 97.9 49.3 147.9

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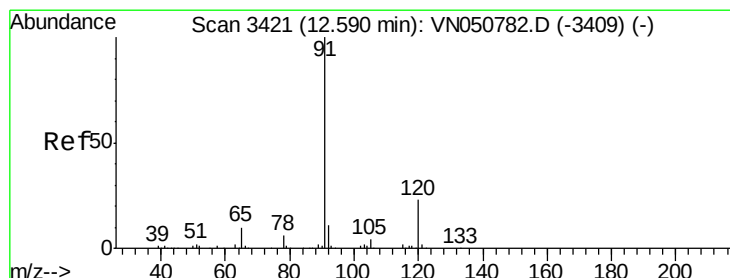
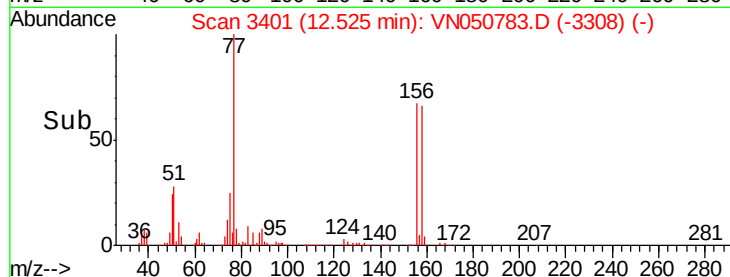
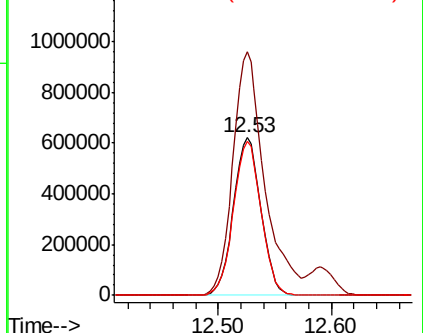
8/22/2018 11:18:57 AM



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: 103.06 ug/l

RT: 12.59 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN050783.D

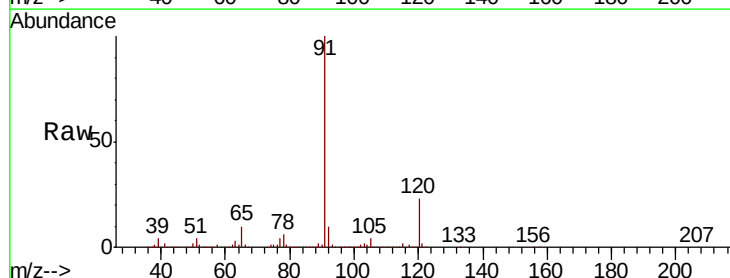
Acq: 21 Aug 2018 11:34

Tgt Ion: 91 Resp: 4721222

Ion Ratio Lower Upper

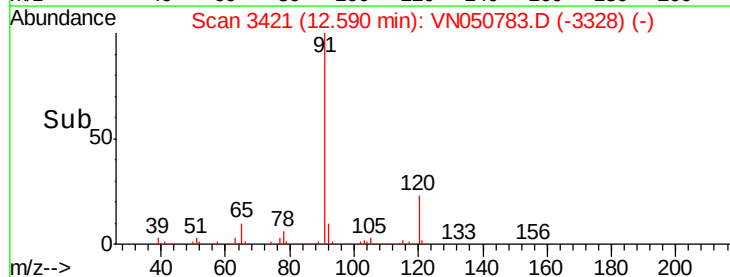
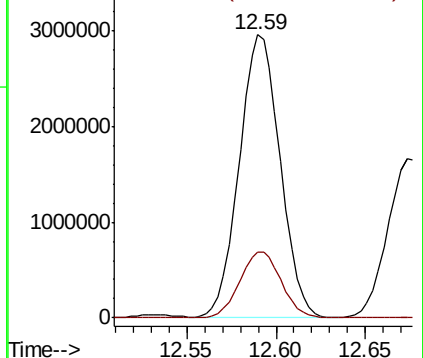
91 100

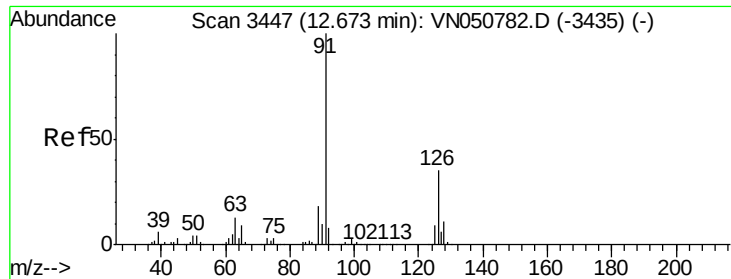
120 23.6 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 96.98 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 91 Resp: 2767293

Ion Ratio Lower Upper

91 100

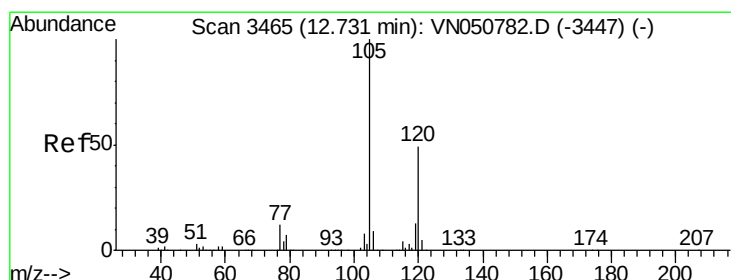
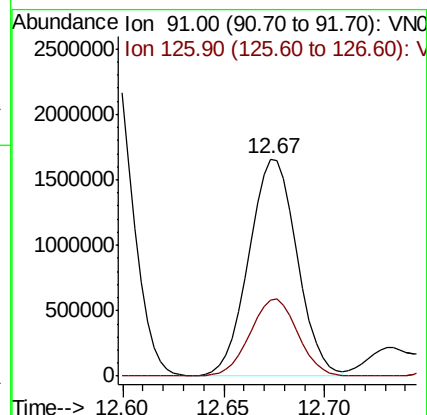
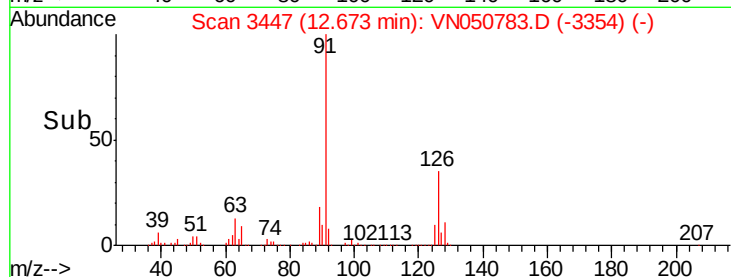
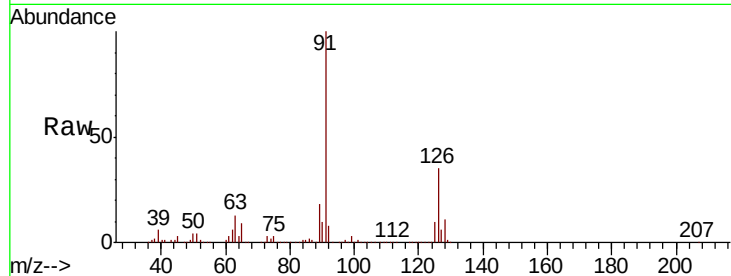
126 35.4 17.8 53.3

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#80

1,3,5-Trimethylbenzene

Concen: 102.61 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050783.D

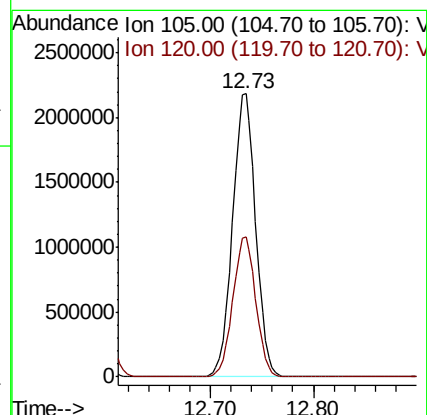
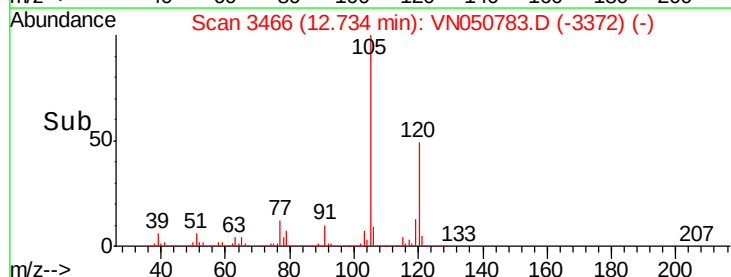
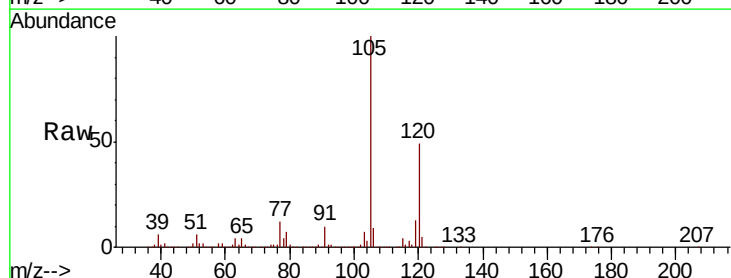
Acq: 21 Aug 2018 11:34

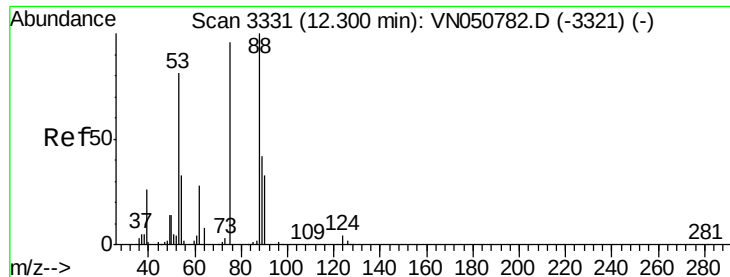
Tgt Ion: 105 Resp: 3395233

Ion Ratio Lower Upper

105 100

120 49.3 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 105.90 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion: 75 Resp: 271731

Ion Ratio Lower Upper

75 100

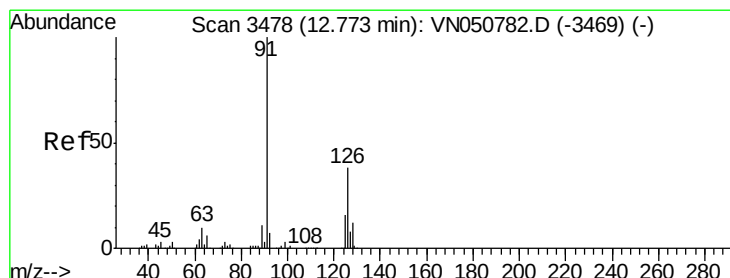
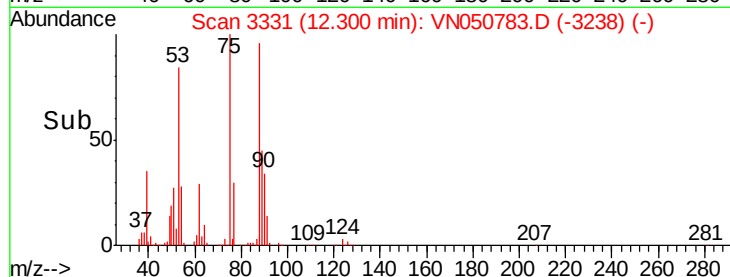
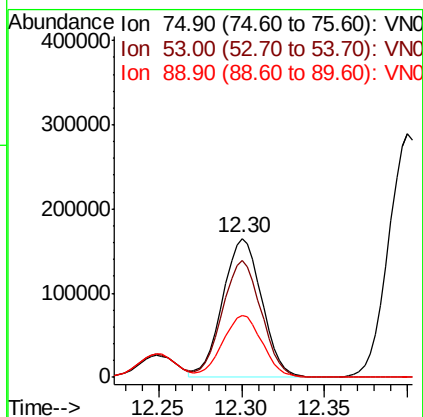
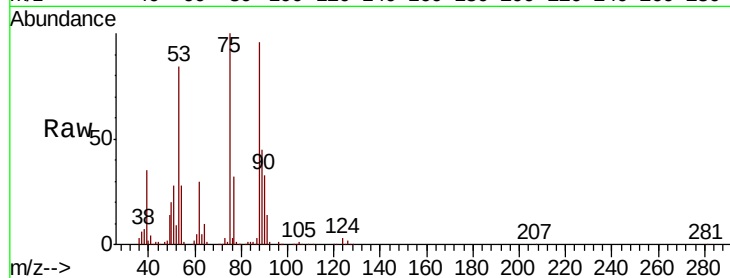
53 83.5 68.9 103.3

89 45.3 36.1 54.1

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#82

4-Chlorotoluene

Concen: 101.01 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050783.D

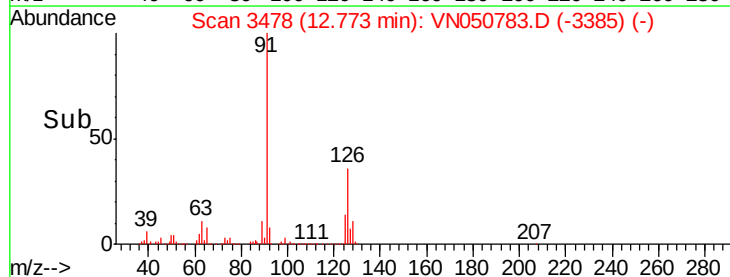
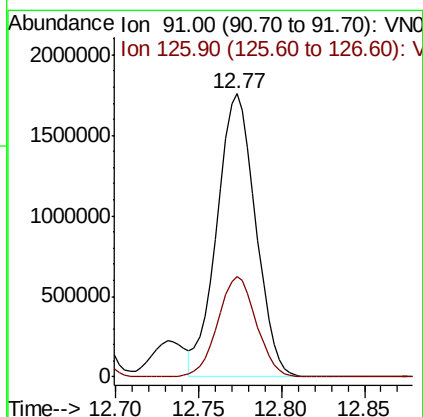
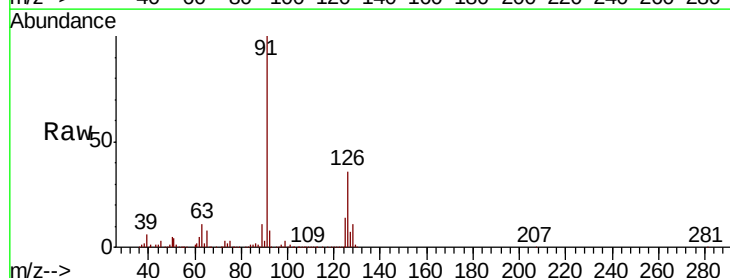
Acq: 21 Aug 2018 11:34

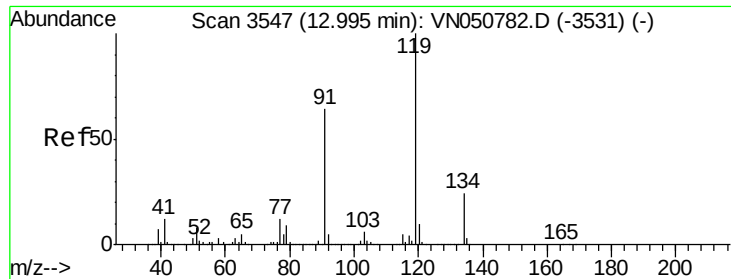
Tgt Ion: 91 Resp: 2845501

Ion Ratio Lower Upper

91 100

126 35.2 17.5 52.5





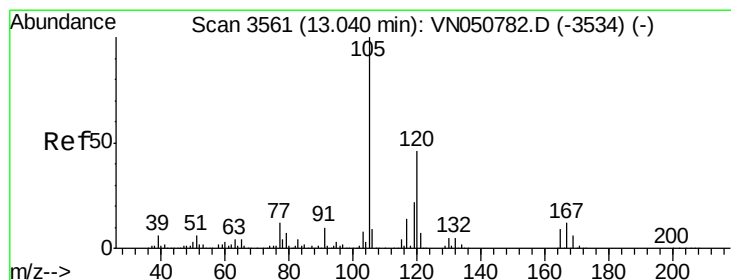
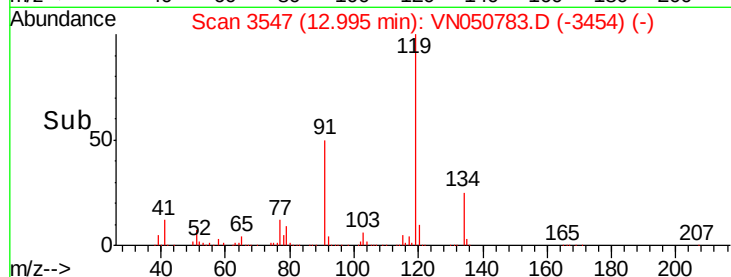
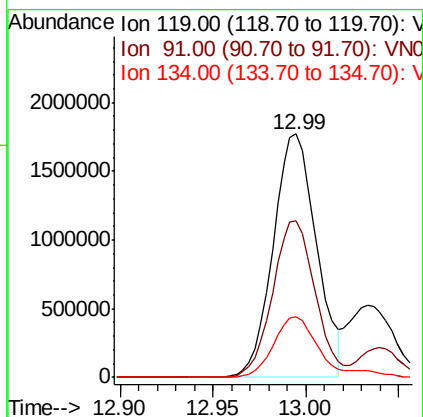
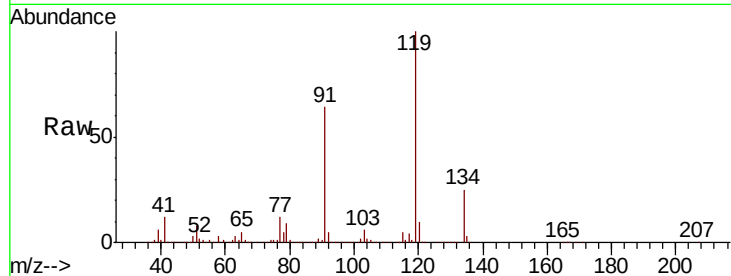
#83
 tert-Butylbenzene
 Concen: 100.69 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion:119 Resp: 2885502
 Ion Ratio Lower Upper
 119 100
 91 63.2 31.6 94.7
 134 26.8 13.4 40.1

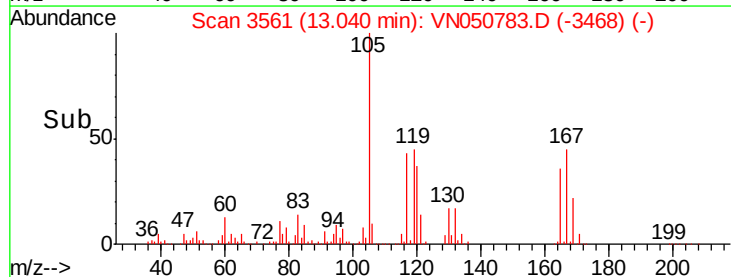
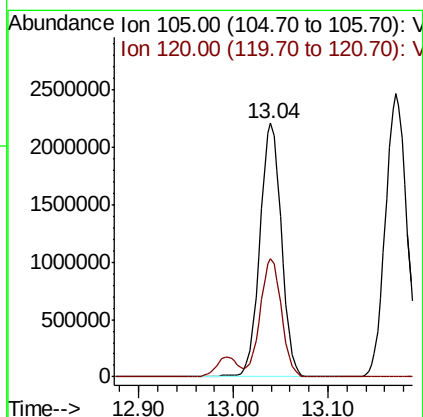
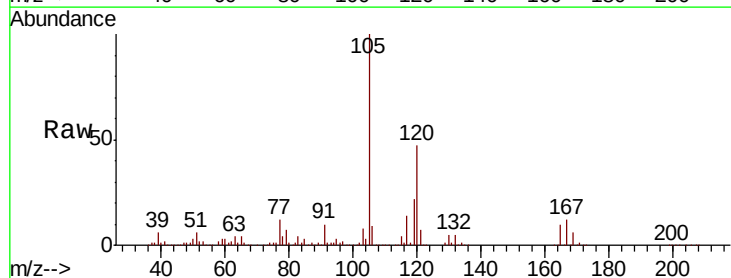
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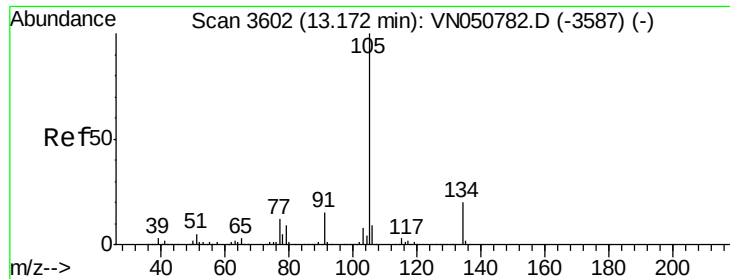
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#84
 1,2,4-Trimethylbenzene
 Concen: 104.47 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Tgt Ion:105 Resp: 3477197
 Ion Ratio Lower Upper
 105 100
 120 46.2 22.9 68.8





#85

sec-Butylbenzene

Concen: 103.47 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampled :

VSTDIC100

Tot Ion:105 Resp: 3885306

Ion Ratio Lower Upper

105 100

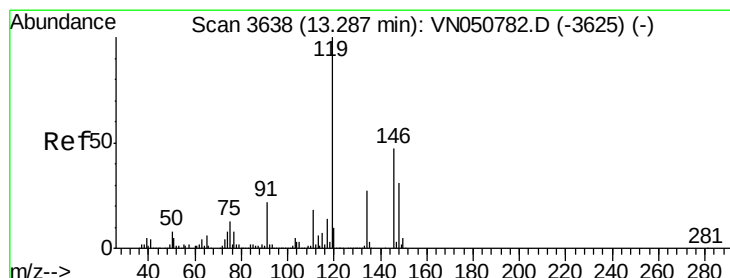
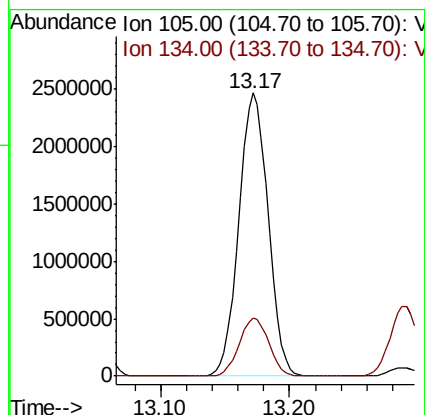
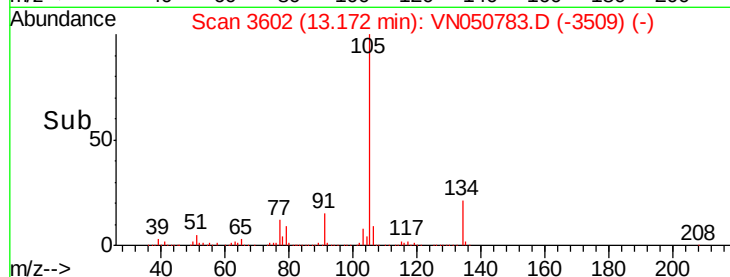
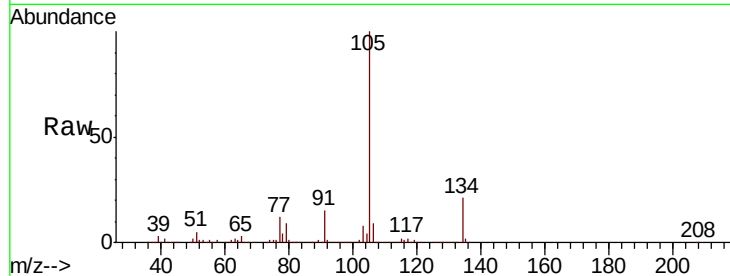
134 20.7 10.3 30.8

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#86

p-Isopropyltoluene

Concen: 108.69 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

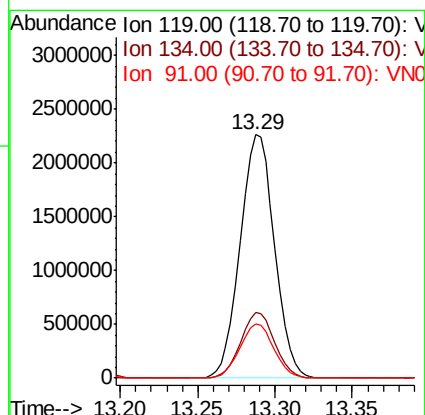
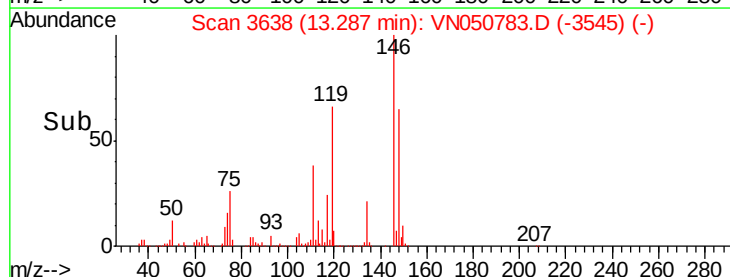
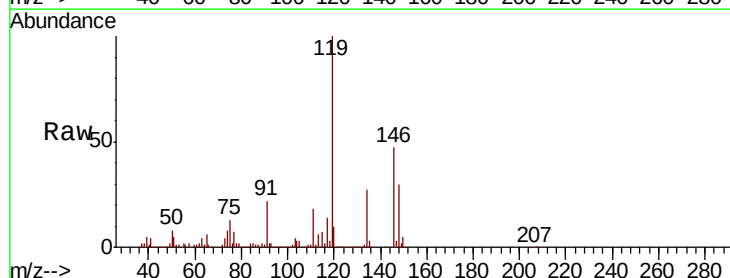
Tgt Ion:119 Resp: 3477528

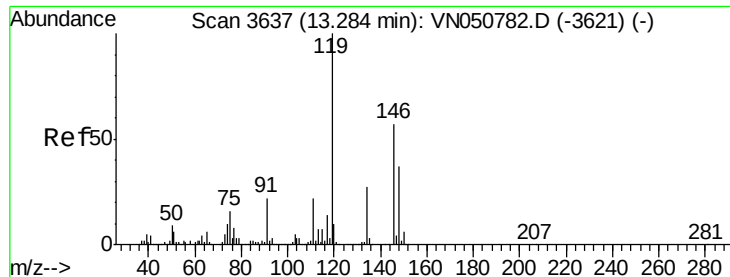
Ion Ratio Lower Upper

119 100

134 26.7 13.7 41.0

91 21.9 11.2 33.5





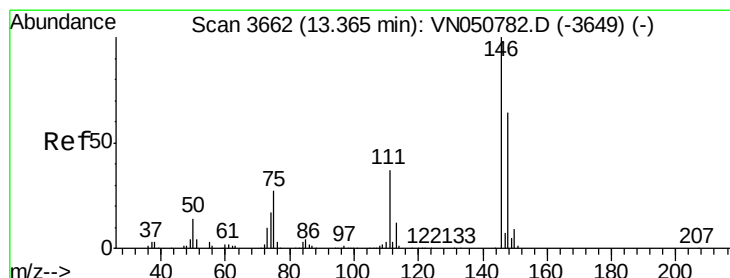
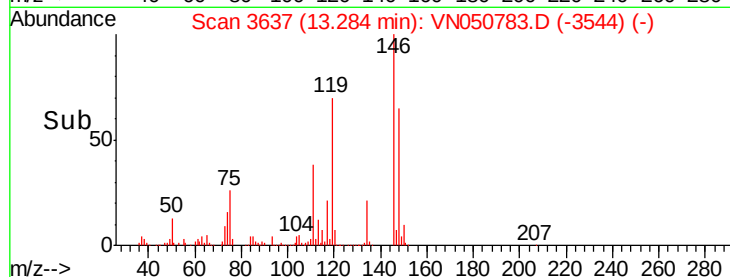
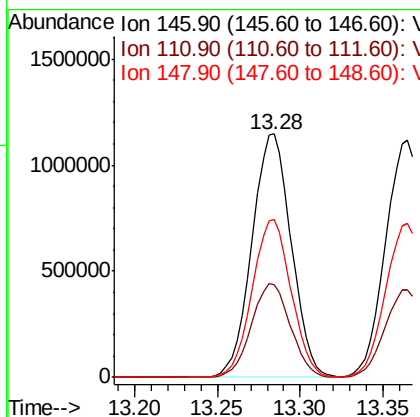
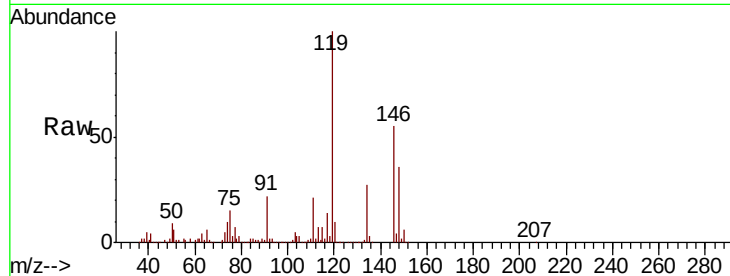
#87
 1,3-Dichlorobenzene
 Concen: 99.78 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.3
148	64.2	32.2	96.6

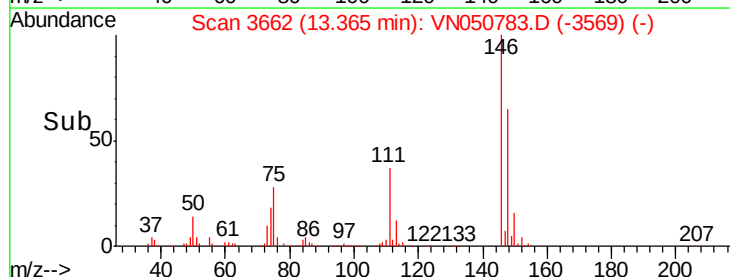
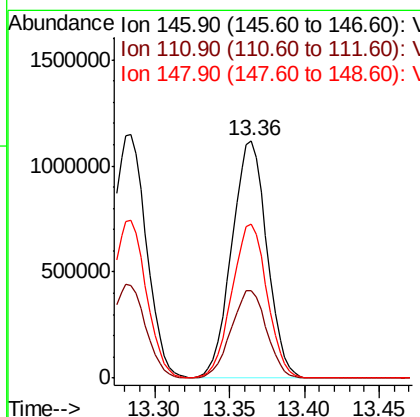
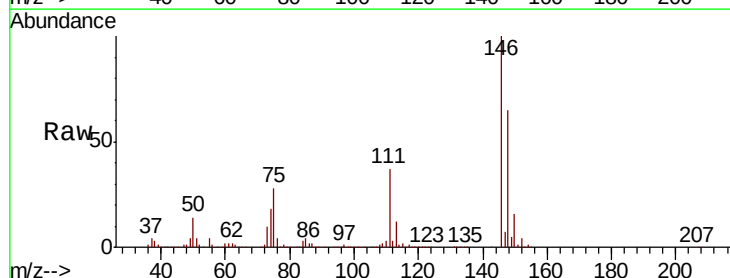
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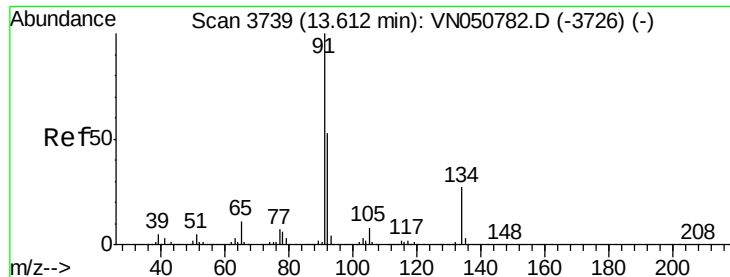
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#88
 1,4-Dichlorobenzene
 Concen: 98.32 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.8	56.3
148	65.0	32.2	96.6





#89

n-Butylbenzene

Concen: 113.17 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 2895992

Ion Ratio Lower Upper

91 100

92 52.2 26.1 78.2

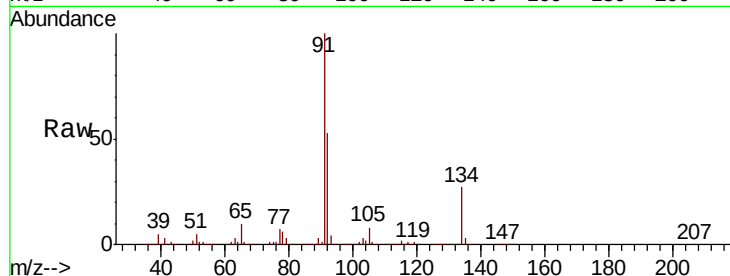
134 27.0 13.2 39.6

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Abundance Ion 91.00 (90.70 to 91.70): VN050783.D (-3740) (-)

Ion 92.00 (91.70 to 92.70): VN050783.D (-3740) (-)

Ion 134.00 (133.70 to 134.70): VN050783.D (-3740) (-)

13.62

2500000

2000000

1500000

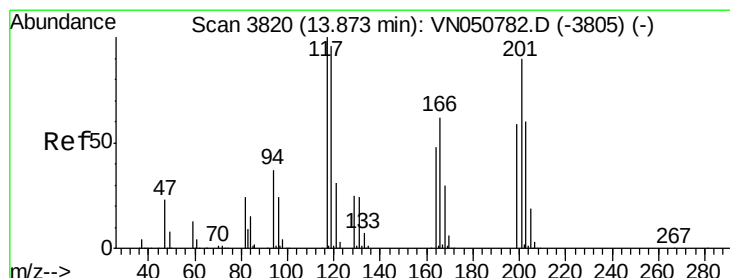
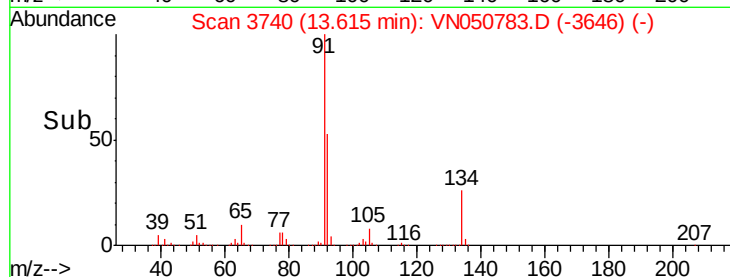
1000000

500000

0

13.55 13.60 13.65 13.70

Time-->



#90

Hexachloroethane

Concen: 90.45 ug/l

RT: 13.88 min Scan# 3821

Delta R.T. 0.00 min

Lab File: VN050783.D

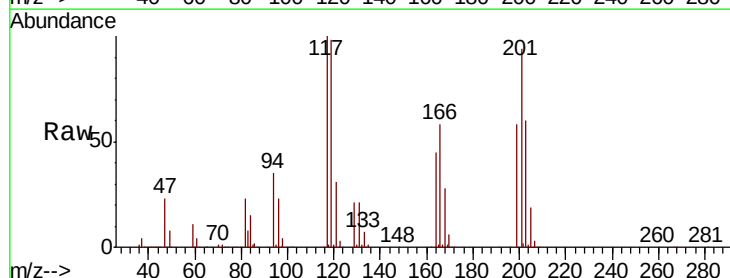
Acq: 21 Aug 2018 11:34

Tgt Ion: 117 Resp: 598966

Ion Ratio Lower Upper

117 100

201 93.6 46.0 137.8



Abundance Ion 116.80 (116.50 to 117.50): VN050783.D (-3821) (-)

Ion 200.70 (200.40 to 201.40): VN050783.D (-3821) (-)

400000

300000

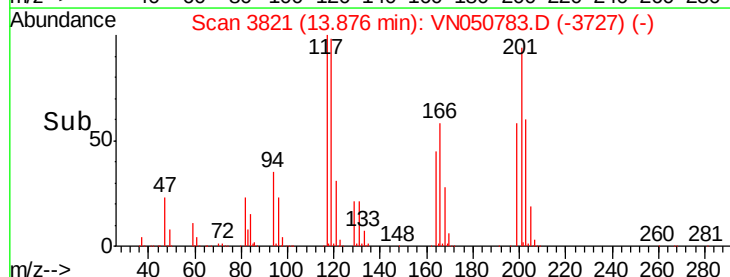
200000

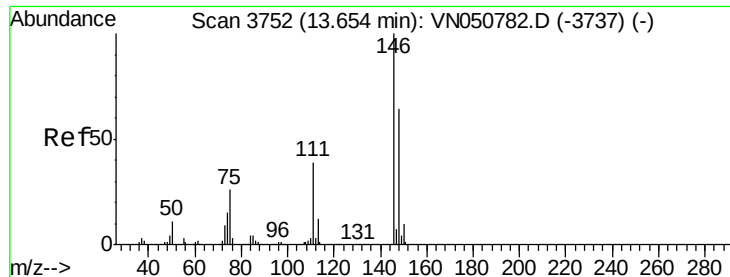
100000

0

13.80 13.90

Time-->





#91

1,2-Dichlorobenzene

Concen: 97.74 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 1783478

Ion Ratio Lower Upper

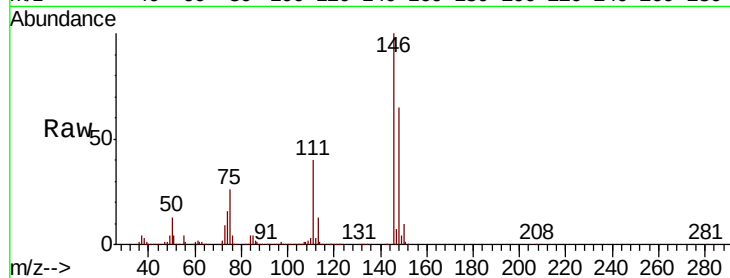
146 100

111 39.4 19.8 59.3

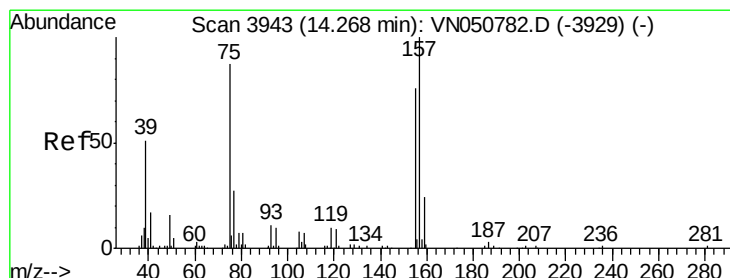
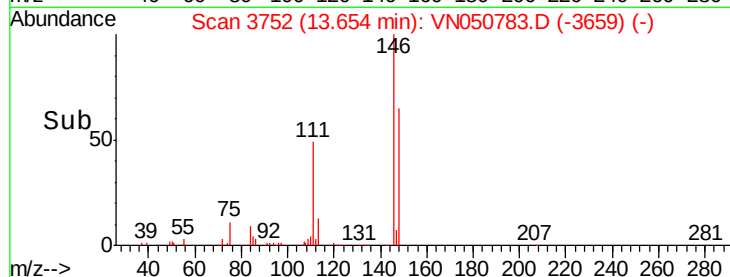
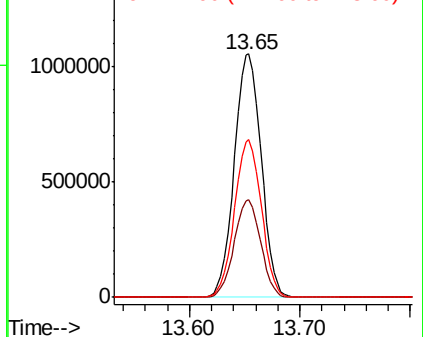
148 64.3 32.3 96.8

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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: 98.60 ug/l

RT: 14.27 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

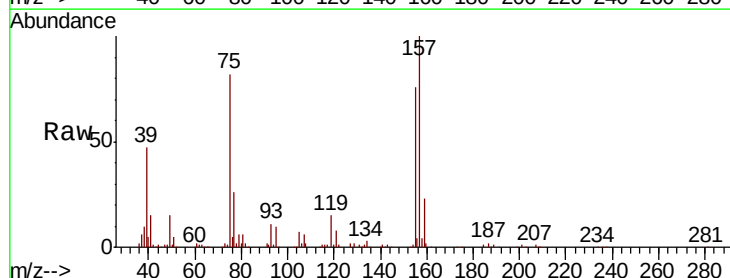
Tgt Ion: 75 Resp: 145211

Ion Ratio Lower Upper

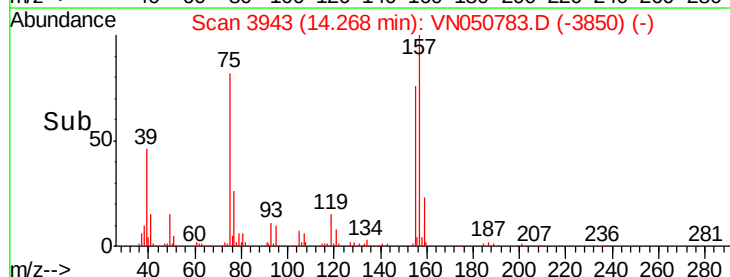
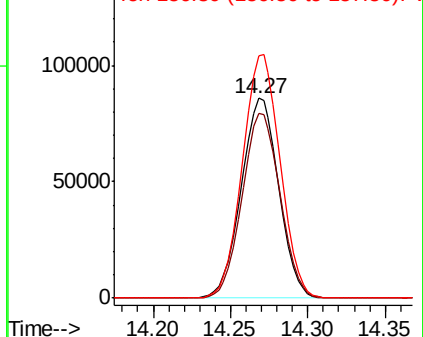
75 100

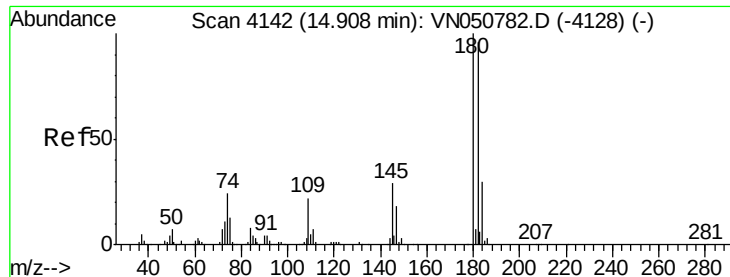
155 93.3 46.4 139.1

157 122.4 60.7 182.0



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





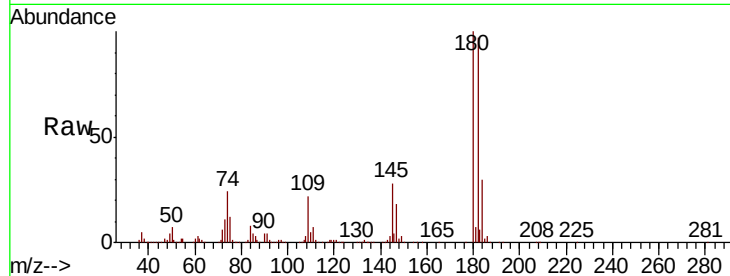
#93
 1,2,4-Trichlorobenzene
 Concen: 122.13 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.7	48.2	144.6	
145	28.0	14.1	42.2	

Manual Integrations
 APPROVED

MMDadoda
 8/22/2018 11:18:57 AM

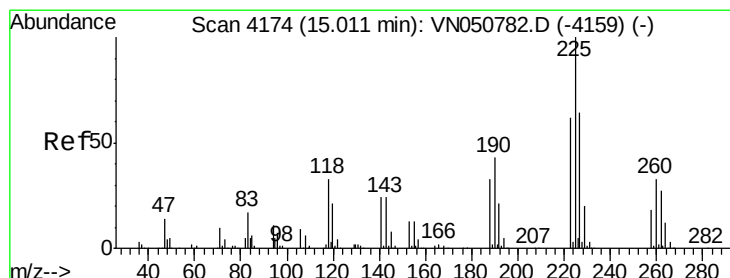
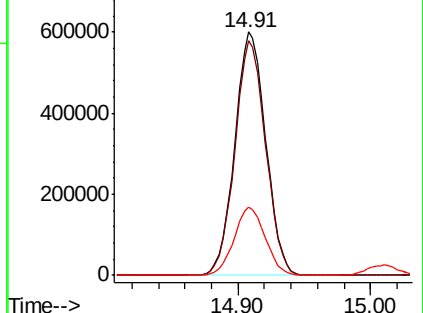
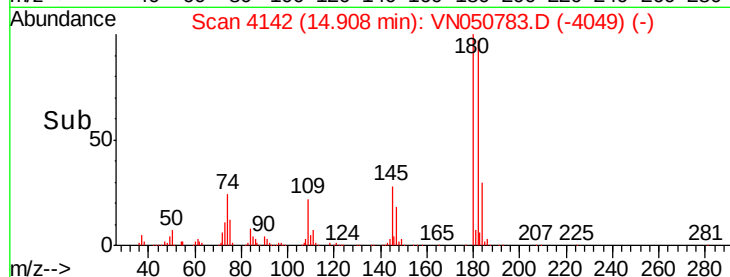


Abundance

Ion 179.80 (179.50 to 180.50): V

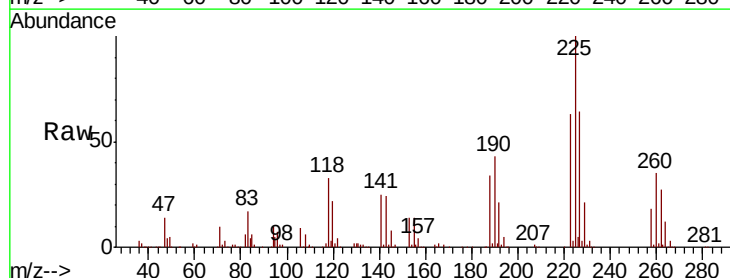
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 90.48 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050783.D
 Acq: 21 Aug 2018 11:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.6	31.3	93.8	
227	64.3	32.0	96.2	

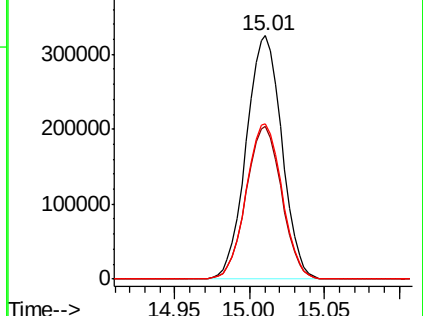
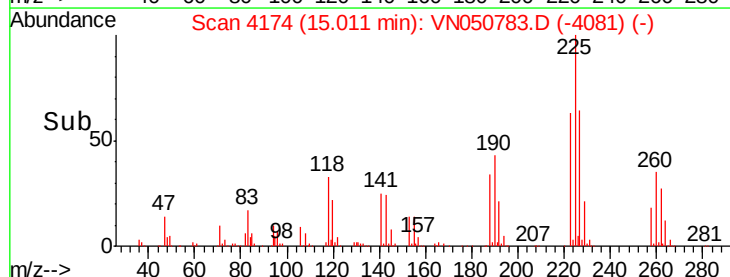


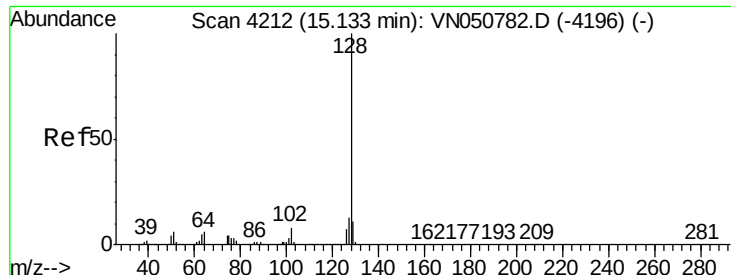
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 129.45 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:128 Resp: 2028464

Ion Ratio Lower Upper

128 100

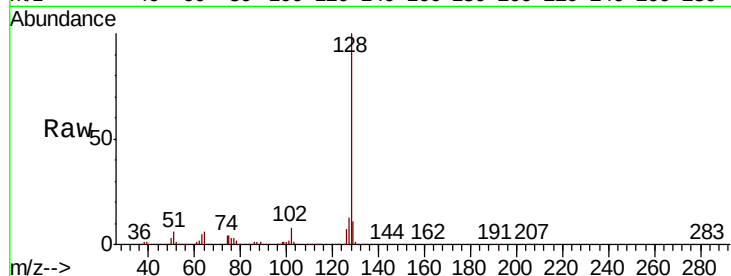
127 13.1 10.5 15.7

129 10.9 8.7 13.1

Manual Integrations
APPROVED

MMDadoda

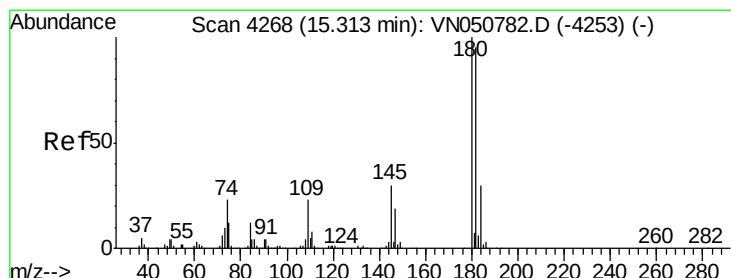
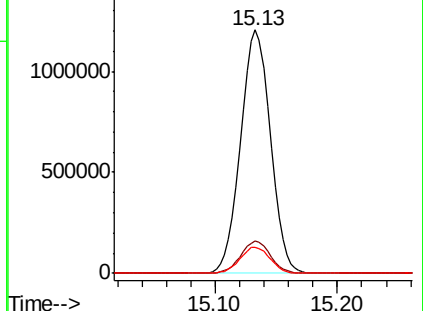
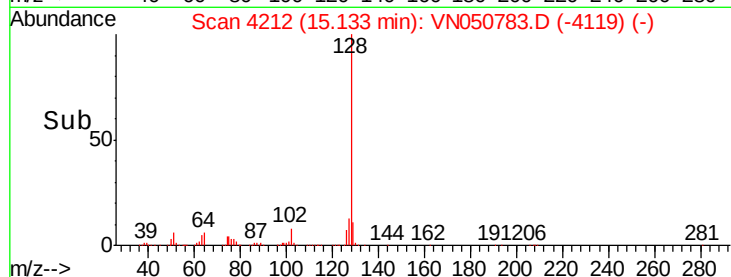
8/22/2018 11:18:57 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 116.84 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. 0.00 min

Lab File: VN050783.D

Acq: 21 Aug 2018 11:34

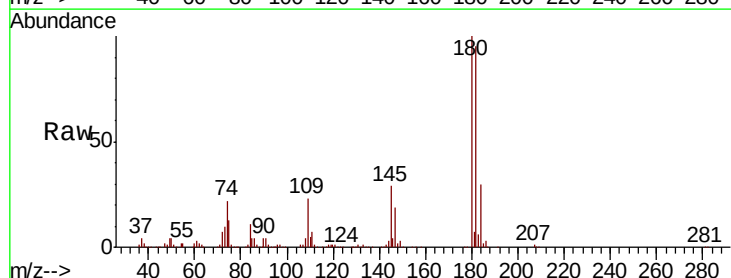
Tgt Ion:180 Resp: 903637

Ion Ratio Lower Upper

180 100

182 95.4 48.0 144.2

145 29.6 15.2 45.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

