

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041319\
 Data File : VN055011.D
 Acq On : 12 Apr 2019 20:39
 Operator : JC/SP
 Sample : VN0413WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/16/2019 1:58:34 PM

Quant Time: Apr 13 04:17:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 13 03:34:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	405647	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	671541	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	586152	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	236899	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	273309	53.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.38%	
35) Dibromofluoromethane	7.59	113	216337	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	
50) Toluene-d8	10.09	98	783461	49.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.66%	
62) 4-Bromofluorobenzene	12.40	95	262005	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	92644	20.706	ug/l	99
3) Chloromethane	2.06	50	123153	20.525	ug/l	98
4) Vinyl Chloride	2.19	62	101284	20.802	ug/l	100
5) Bromomethane	2.56	94	56353	19.994	ug/l	97
6) Chloroethane	2.70	64	54506	20.299	ug/l	98
7) Trichlorofluoromethane	3.02	101	127840	20.932	ug/l	99
8) Diethyl Ether	3.41	74	41657	21.688	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	65231	20.478	ug/l	99
10) Methyl Iodide	3.94	142	90229	19.640	ug/l	99
11) Tert butyl alcohol	4.83	59	35419	113.070	ug/l	97
12) 1,1-Dichloroethene	3.73	96	62733	20.002	ug/l	96
13) Acrolein	3.61	56	41785	110.511	ug/l	99
14) Allyl chloride	4.31	41	160272	20.915	ug/l	99
15) Acrylonitrile	5.00	53	196393	113.670	ug/l	99
16) Acetone	3.82	43	136079	97.307	ug/l	100
17) Carbon Disulfide	4.04	76	179785	17.600	ug/l	97
18) Methyl Acetate	4.33	43	94962	21.906	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	247009	22.043	ug/l	100
20) Methylene Chloride	4.54	84	109221	23.253	ug/l	100
21) trans-1,2-Dichloroethene	5.03	96	86378	20.906	ug/l	94
22) Diisopropyl ether	5.96	45	339140	21.828	ug/l	96
23) Vinyl Acetate	5.90	43	1200054	110.430	ug/l	99
24) 1,1-Dichloroethane	5.84	63	175053	20.861	ug/l	99
25) 2-Butanone	6.85	43	244243	113.399	ug/l	99
26) 2,2-Dichloropropane	6.82	77	103568	18.655	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	101912	21.233	ug/l	98
28) Bromochloromethane	7.19	49	87137	21.886	ug/l	100
29) Tetrahydrofuran	7.22	42	164483	116.495	ug/l	99
30) Chloroform	7.37	83	170045	21.250	ug/l	98
31) Cyclohexane	7.65	56	163976	20.314	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	133891	21.003	ug/l	99
36) 1,1-Dichloropropene	7.79	75	122533	19.743	ug/l	99
37) Ethyl Acetate	6.94	43	104419	22.411	ug/l	98
38) Carbon Tetrachloride	7.77	117	111264	19.045	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	136638	19.231	ug/l	98
40) Benzene	8.04	78	382531	20.387	ug/l	100
41) Methacrylonitrile	7.18	41	63831	22.265	ug/l	95
42) 1,2-Dichloroethane	8.13	62	132719	20.106	ug/l	99
43) Isopropyl Acetate	8.17	43	172627	21.668	ug/l	99
44) Trichloroethene	8.84	130	96087	20.038	ug/l	98
45) 1,2-Dichloropropane	9.12	63	106530	20.118	ug/l	96
46) Dibromomethane	9.21	93	62923	20.739	ug/l	98
47) Bromodichloromethane	9.40	83	124195	20.129	ug/l	97
48) Methyl methacrylate	9.20	41	87056	21.212	ug/l	98
49) 1,4-Dioxane	9.21	88	20108	455.577	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	517575	110.953	ug/l	98
52) Toluene	10.16	92	223332	20.125	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	108440	19.409	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	138702	20.153	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	87053	21.058	ug/l	99
56) Ethyl methacrylate	10.43	69	111417	20.945	ug/l	99
57) 1,3-Dichloropropane	10.71	76	150911	21.162	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	218159	102.831	ug/l	99
59) 2-Hexanone	10.75	43	322370	110.589	ug/l	99
60) Dibromochloromethane	10.90	129	84234	20.471	ug/l	100
61) 1,2-Dibromoethane	11.01	107	81885	20.689	ug/l	99
64) Tetrachloroethene	10.63	164	91103	19.870	ug/l	96
65) Chlorobenzene	11.43	112	231763	20.506	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	84424	20.269	ug/l	98
67) Ethyl Benzene	11.51	91	414620	19.971	ug/l	98
68) m/p-Xylenes	11.62	106	308675	40.639	ug/l	99
69) o-Xylene	11.95	106	152978	20.356	ug/l	97
70) Styrene	11.96	104	244093	20.484	ug/l	99
71) Bromoform	12.13	173	51833	19.796	ug/l #	98
73) Isopropylbenzene	12.25	105	400854	19.901	ug/l	99
74) N-amyl acetate	12.07	43	126478	20.833	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	108444	20.795	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	97008m	22.258	ug/l	
77) Bromobenzene	12.53	156	98529	21.283	ug/l	99
78) n-propylbenzene	12.59	91	439109	20.010	ug/l	99
79) 2-Chlorotoluene	12.68	91	270009	19.917	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	329491	20.095	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	21140	20.020	ug/l	93
82) 4-Chlorotoluene	12.77	91	255148	19.461	ug/l	99
83) tert-Butylbenzene	12.99	119	289100	20.581	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	320843	20.406	ug/l	100
85) sec-Butylbenzene	13.17	105	366790	20.451	ug/l	100
86) p-Isopropyltoluene	13.29	119	312070	20.004	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	158358	19.680	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	149196	19.387	ug/l	98
89) n-Butylbenzene	13.61	91	233799	19.082	ug/l	99
90) Hexachloroethane	13.87	117	48173	18.688	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	158919	20.344	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	14758	21.764	ug/l	94

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QLast Update : Sat Apr 13 03:34:24 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	63760	18.805	ug/l	97
94) Hexachlorobutadiene	15.01	225	49990	20.060	ug/l	99
95) Naphthalene	15.13	128	143781	19.072	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	67804	19.242	ug/l	98

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

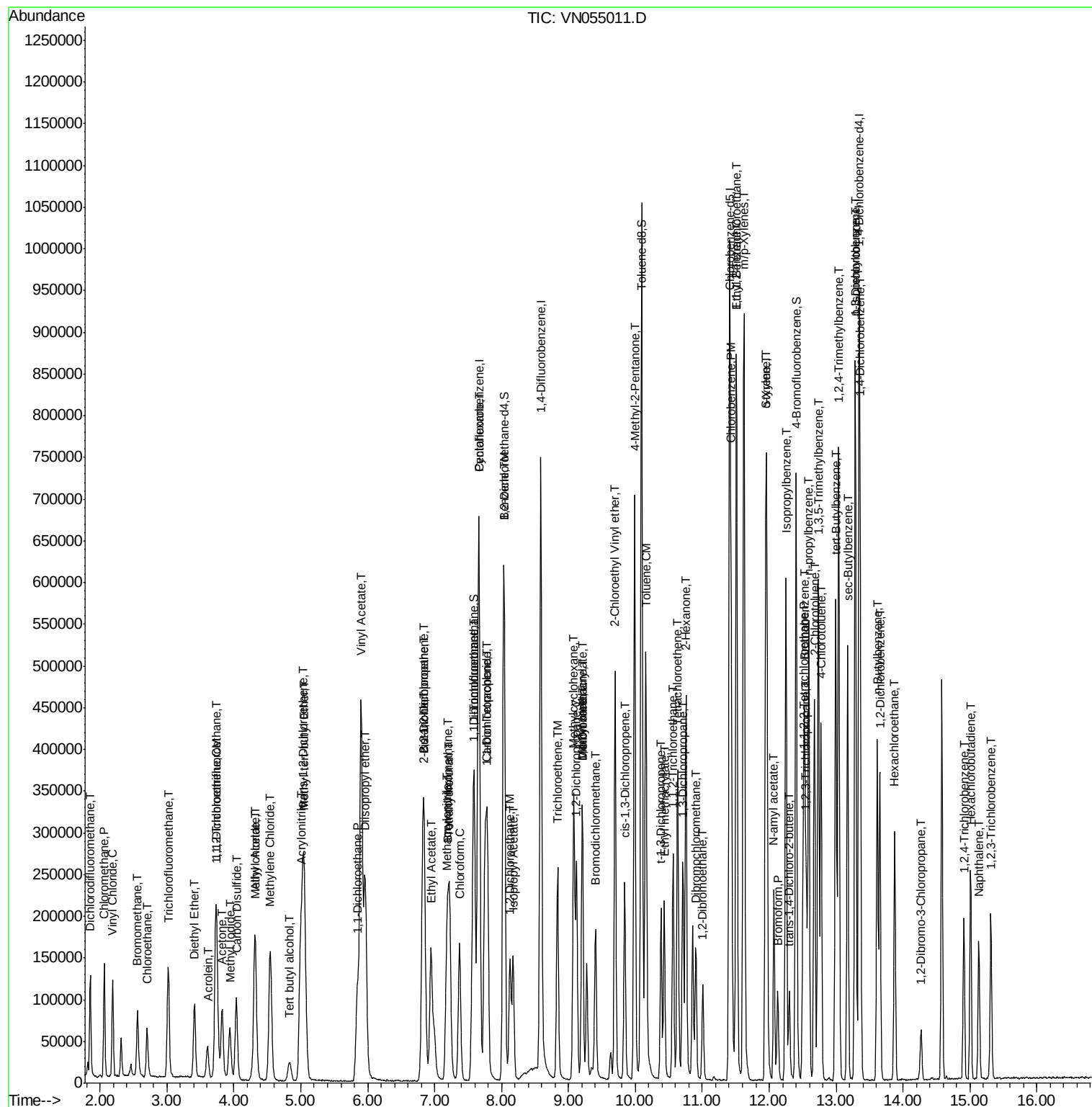
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041319\
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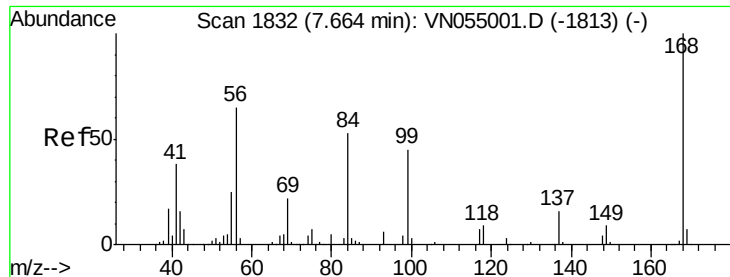
Instrument :
 MSVOA_N
 Client Sample ID :
 VN0413WBSD01

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion:168 Resp: 405647

Ion Ratio Lower Upper

168 100

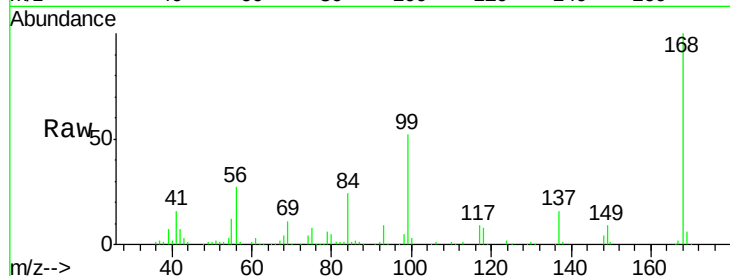
99 51.6 41.9 62.9

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

7.66

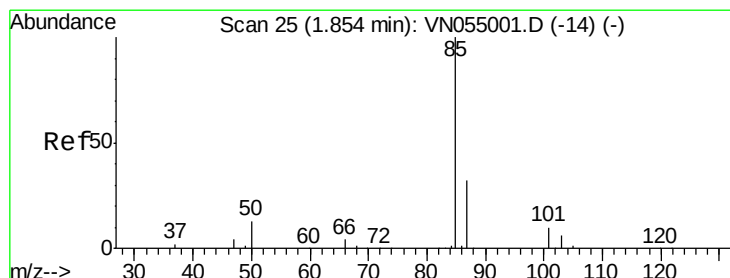
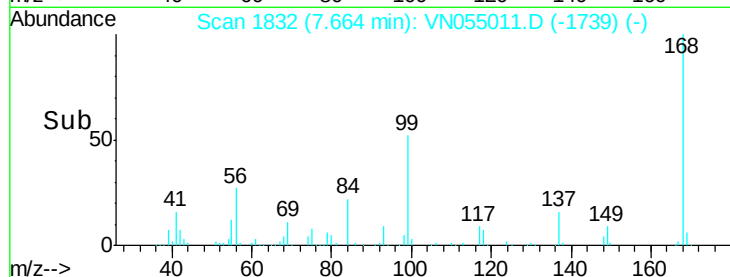
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 20.706 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN055011.D

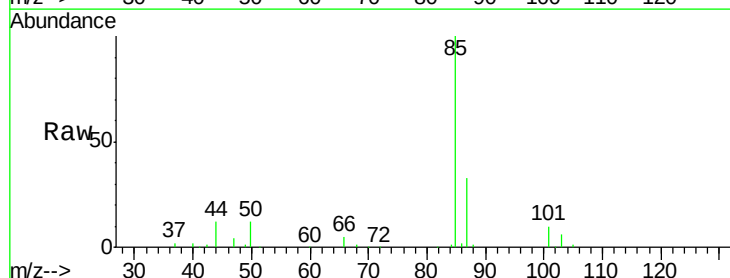
Acq: 12 Apr 2019 20:39

Tgt Ion: 85 Resp: 92644

Ion Ratio Lower Upper

85 100

87 32.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

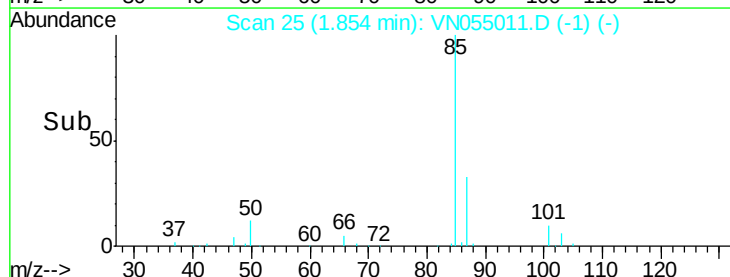
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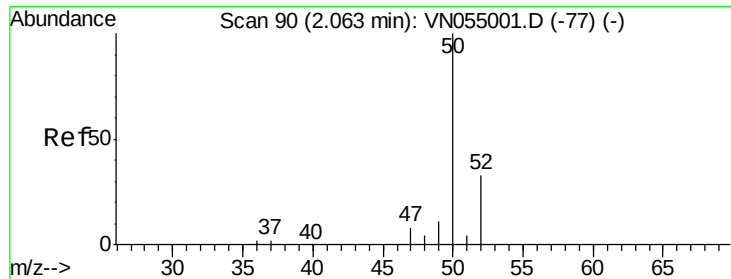
40000

20000

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Time-->





#3

Chloromethane

Concen: 20.525 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion: 50 Resp: 123153

Ion Ratio Lower Upper

50 100

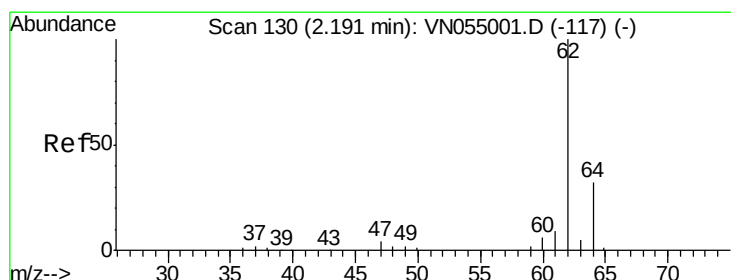
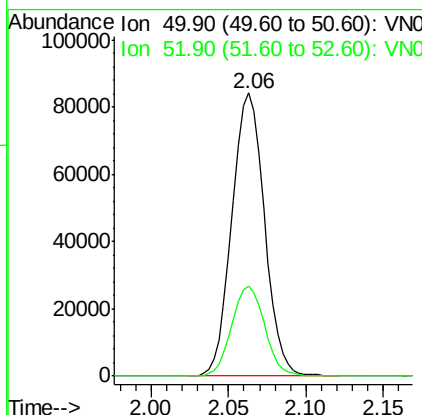
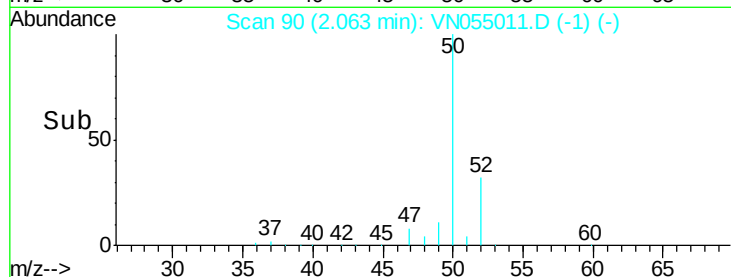
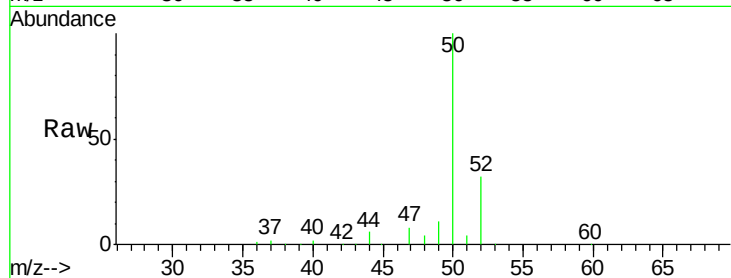
52 32.0 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.802 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN055011.D

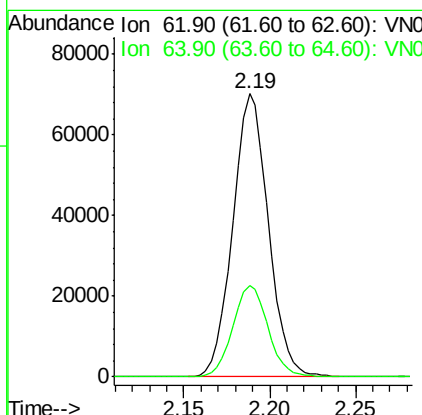
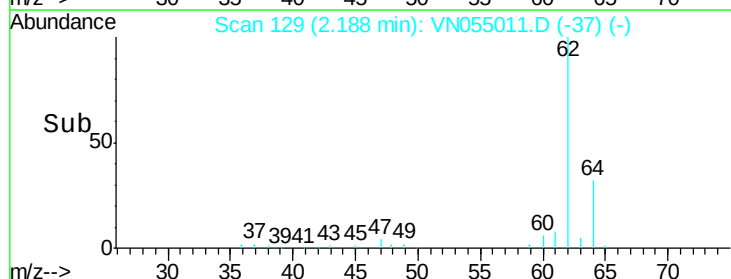
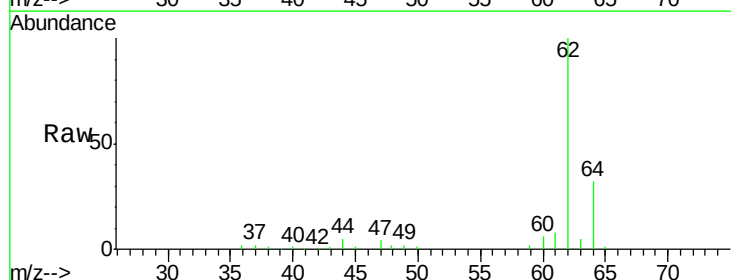
Acq: 12 Apr 2019 20:39

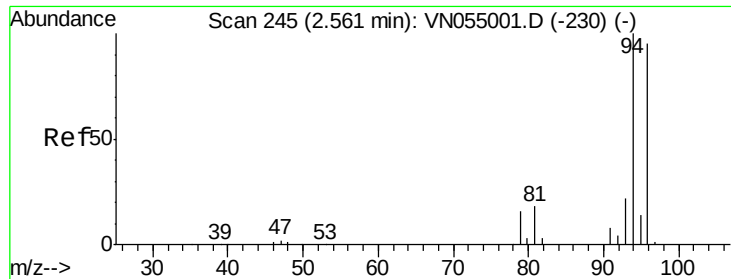
Tgt Ion: 62 Resp: 101284

Ion Ratio Lower Upper

62 100

64 32.3 25.8 38.6





#5

Bromomethane

Concen: 19.994 ug/l

RT: 2.56 min Scan# 244

Delta R.T. -0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

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ClientSampleId :

VN0413WBSD01

Tot Ion: 94 Resp: 56353

Ion Ratio Lower Upper

94 100

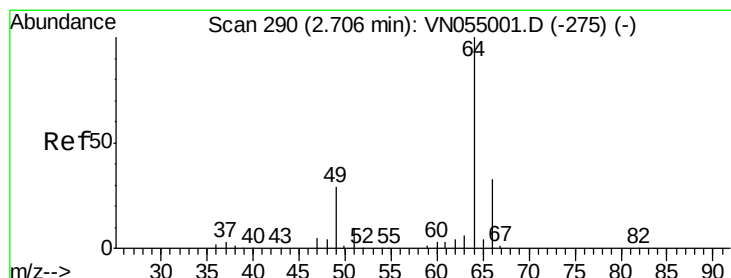
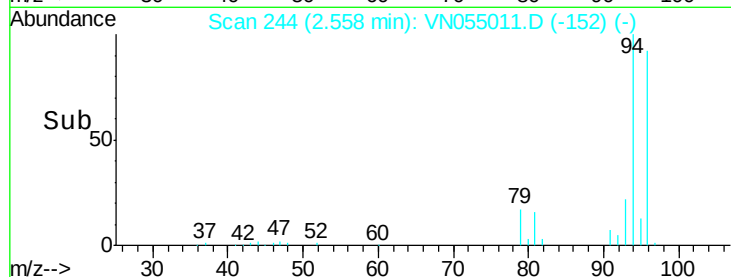
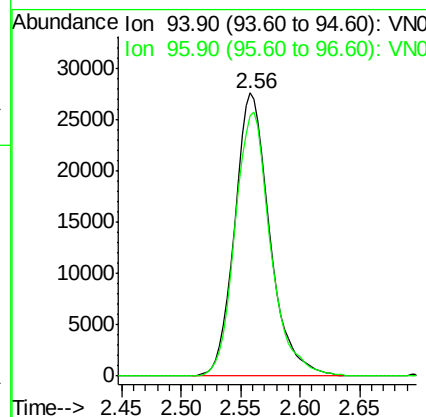
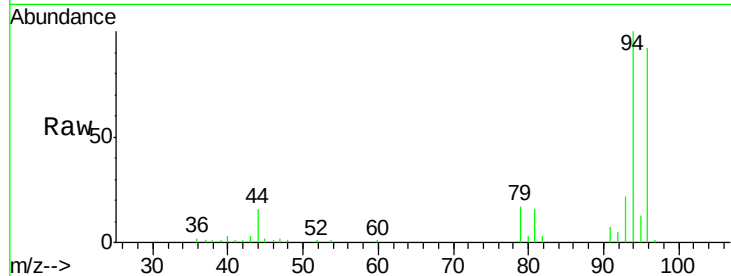
96 91.9 76.2 114.4

Manual Integrations

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#6

Chloroethane

Concen: 20.299 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN055011.D

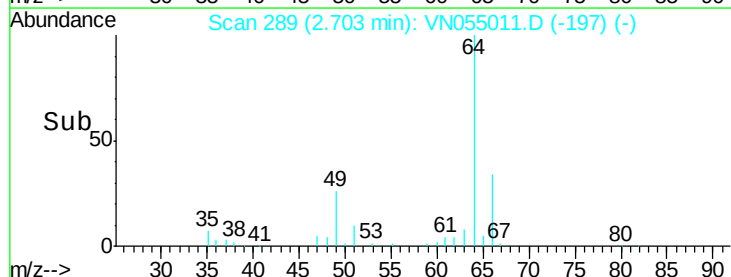
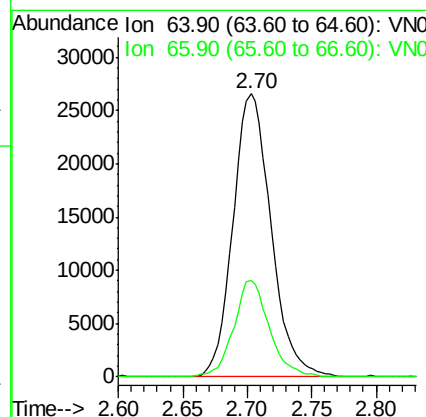
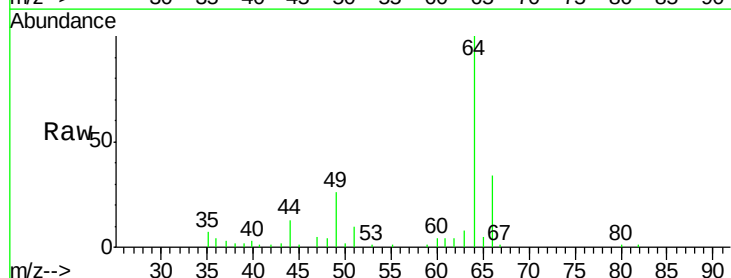
Acq: 12 Apr 2019 20:39

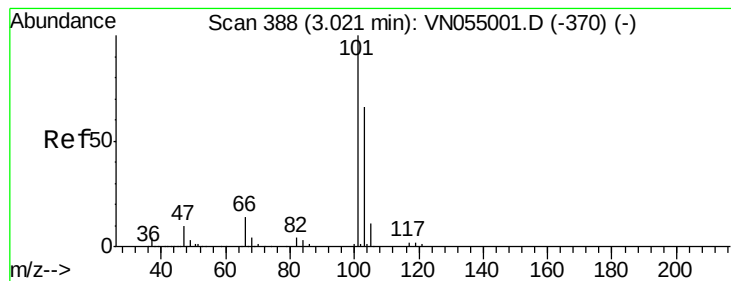
Tgt Ion: 64 Resp: 54506

Ion Ratio Lower Upper

64 100

66 34.3 26.6 40.0





#7

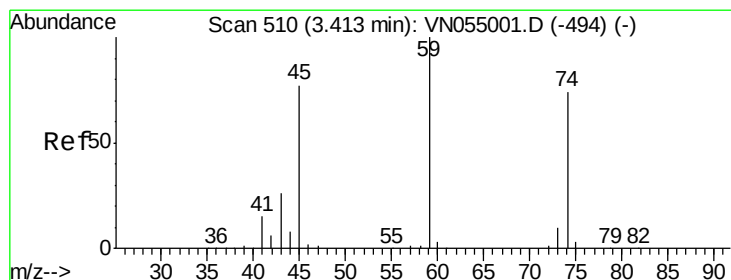
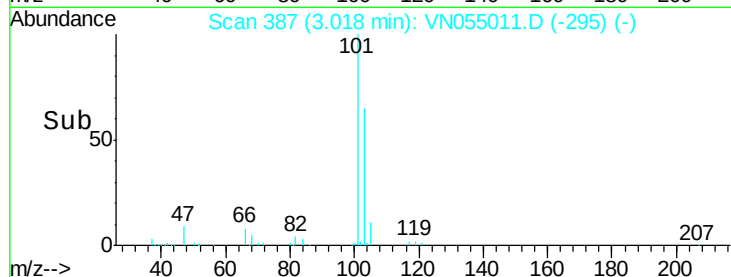
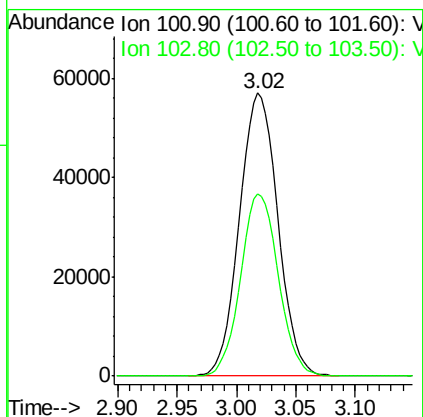
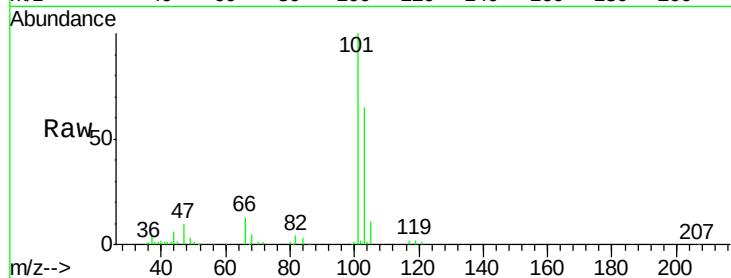
Trichlorofluoromethane
Concen: 20.932 ug/l
RT: 3.02 min Scan# 387
Delta R.T. -0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
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ClientSampleId :
VN0413WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.5	78.7

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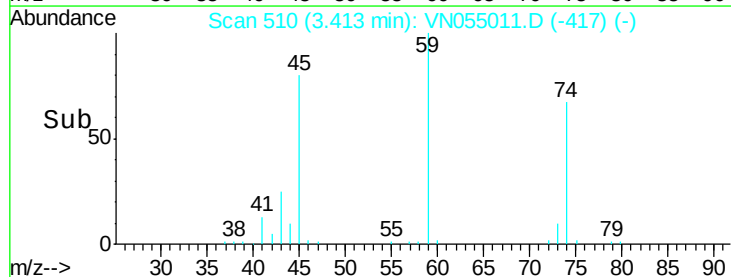
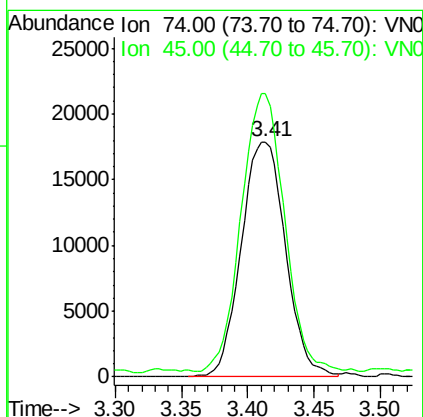
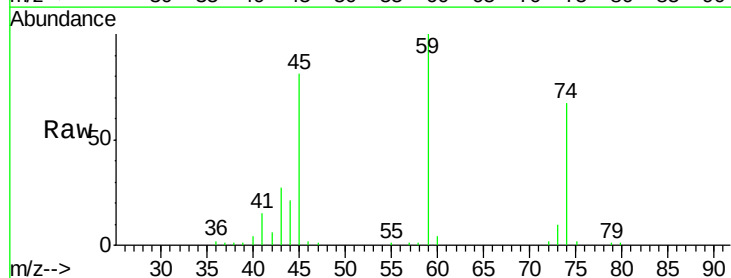
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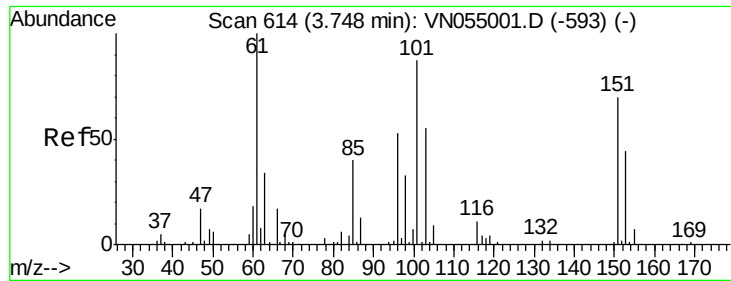


#8

Diethyl Ether
Concen: 21.688 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
74	100		
45	115.4	55.7	167.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.478 ug/l

RT: 3.75 min Scan# 614

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

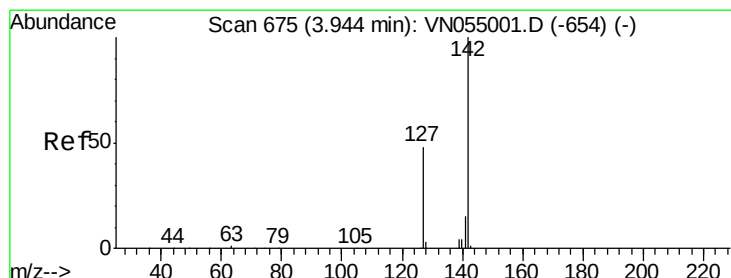
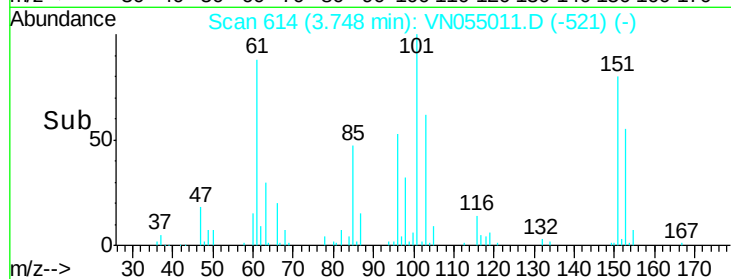
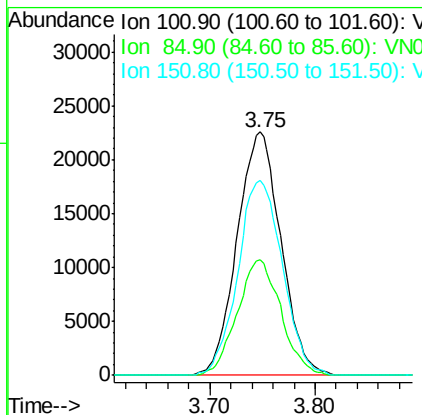
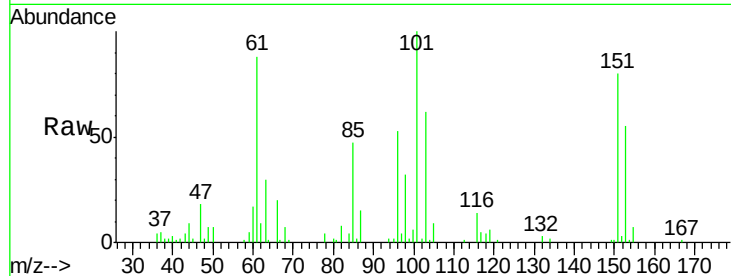
ClientSampleId :

VN0413WBSD01

Tot Ion:	101	Resp:	65231
Ion Ratio	Lower	Upper	
101	100		
85	47.2	36.9	55.3
151	81.7	64.4	96.6

Manual Integrations
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MMDadoda
4/16/2019 1:58:34 PM



#10

Methyl Iodide

Concen: 19.640 ug/l

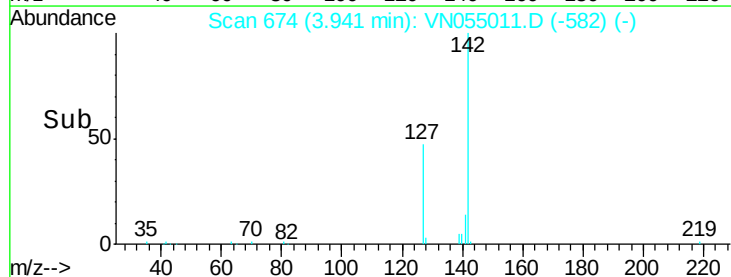
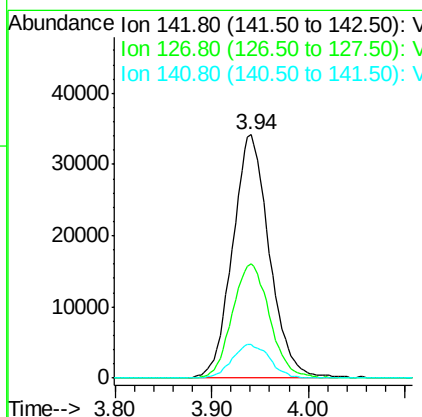
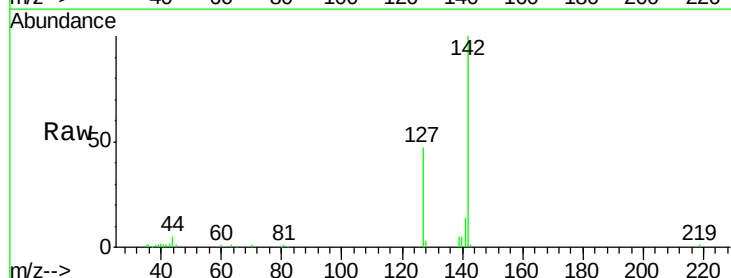
RT: 3.94 min Scan# 674

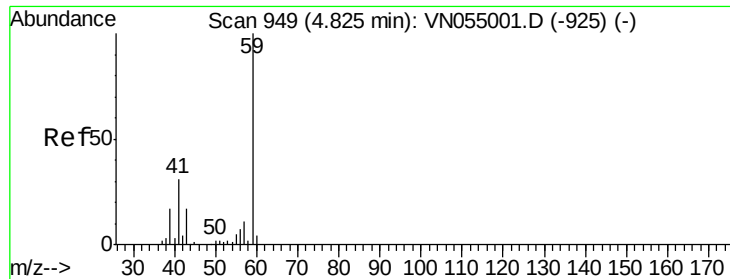
Delta R.T. -0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	142	Resp:	90229
Ion Ratio	Lower	Upper	
142	100		
127	47.5	37.9	56.9
141	14.0	11.8	17.8





#11

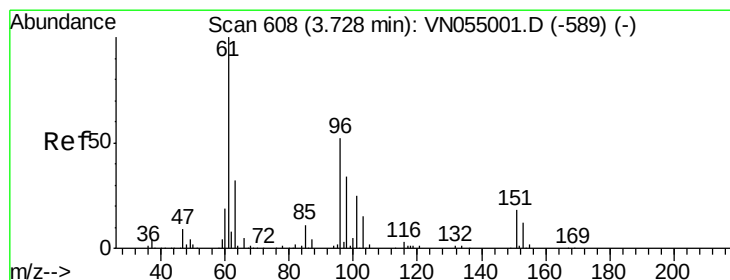
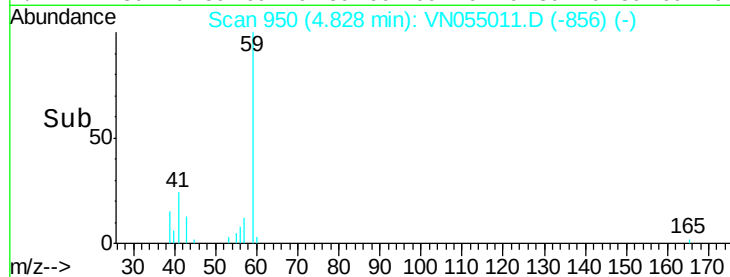
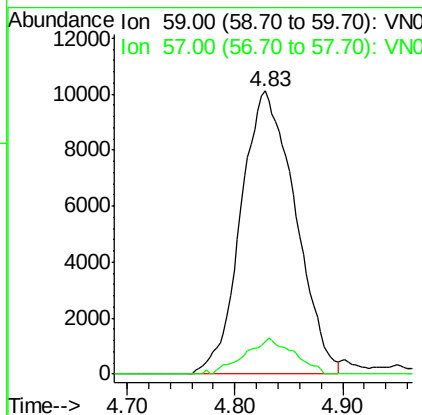
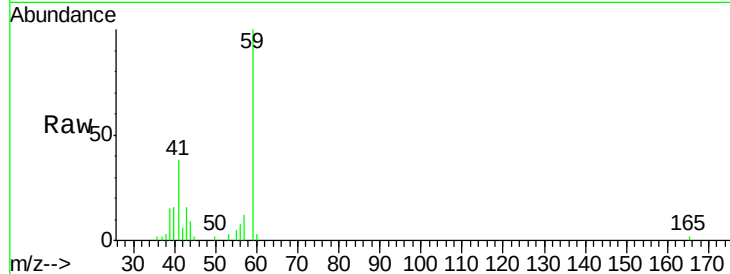
Tert butyl alcohol
 Concen: 113.070 ug/l
 RT: 4.83 min Scan# 950
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	35419		
57	57	11.4		8.3	12.5

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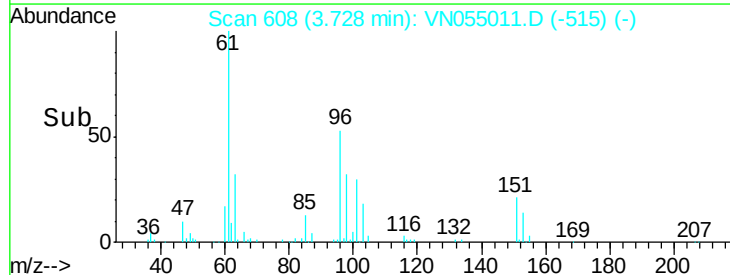
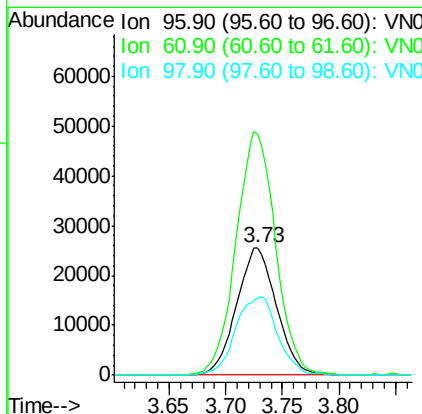
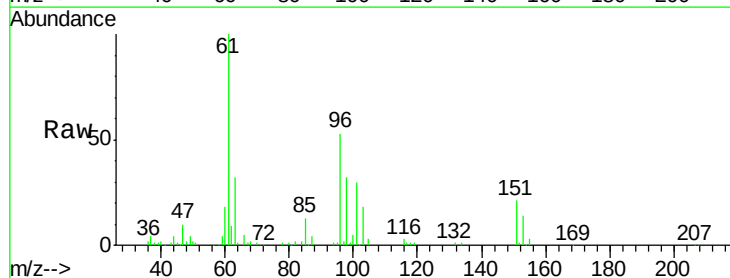
MMDadoda
 4/16/2019 1:58:34 PM

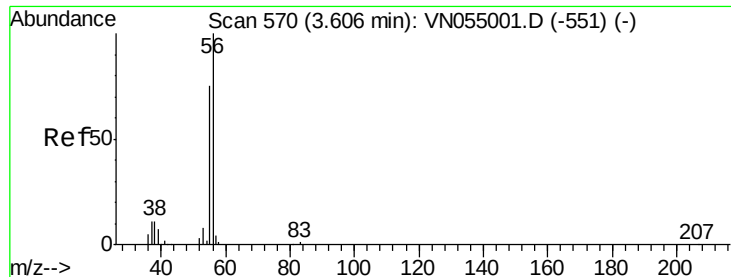


#12

1,1-Dichloroethene
 Concen: 20.002 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	96	100	62733		
61	61	188.9		154.2	231.4
98	98	61.1		52.9	79.3





#13

Acrolein

Concen: 110.511 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion: 56 Resp: 41785

Ion Ratio Lower Upper

56 100

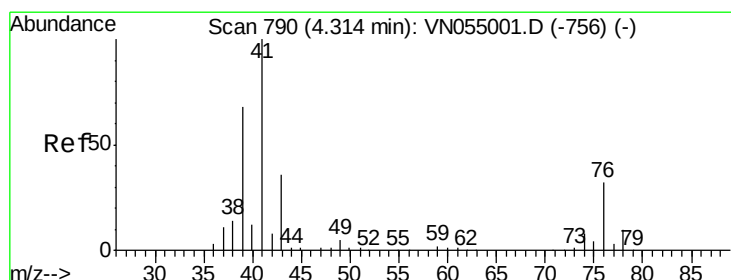
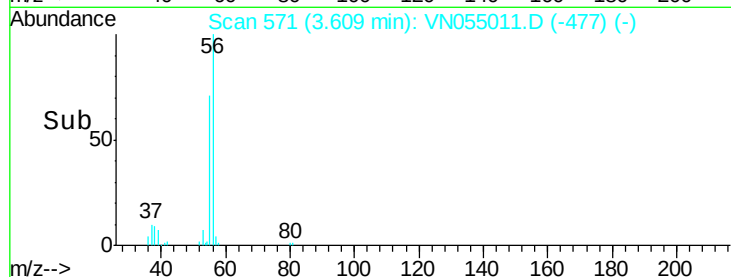
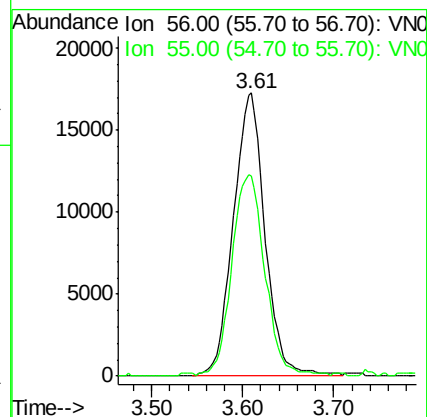
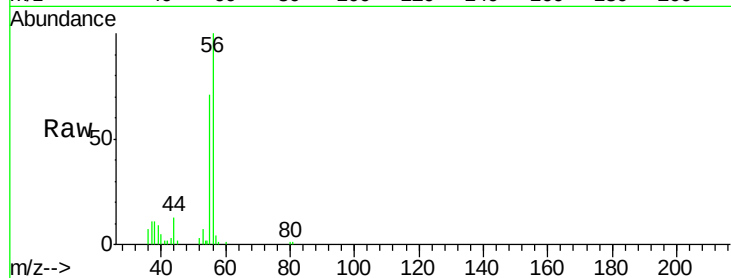
55 73.4 59.5 89.3

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 20.915 ug/l

RT: 4.31 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

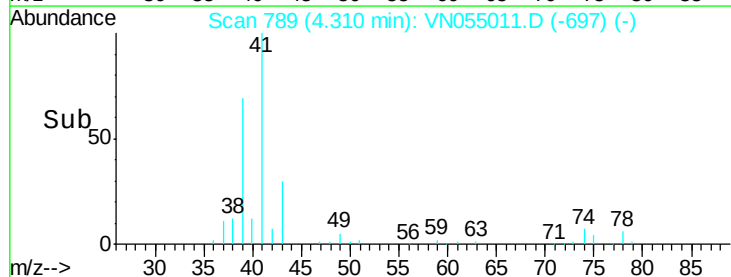
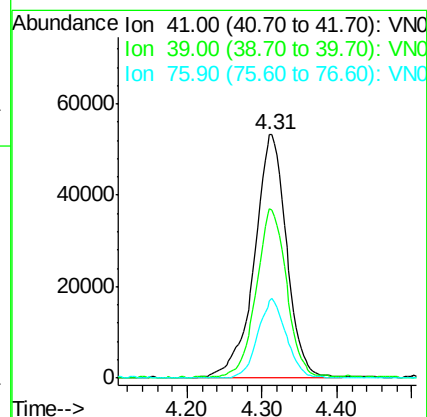
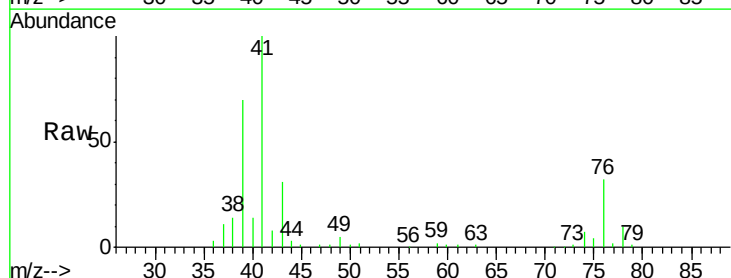
Tgt Ion: 41 Resp: 160272

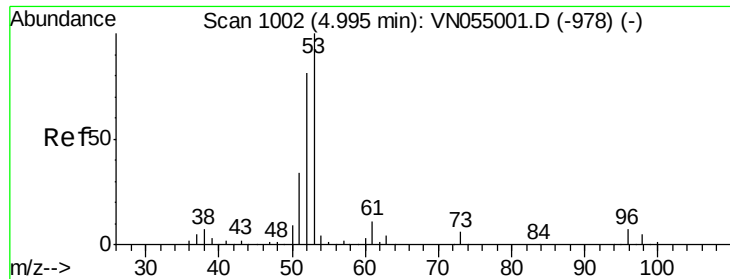
Ion Ratio Lower Upper

41 100

39 64.5 52.7 79.1

76 28.6 23.2 34.8





#15

Acrylonitrile

Concen: 113.670 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

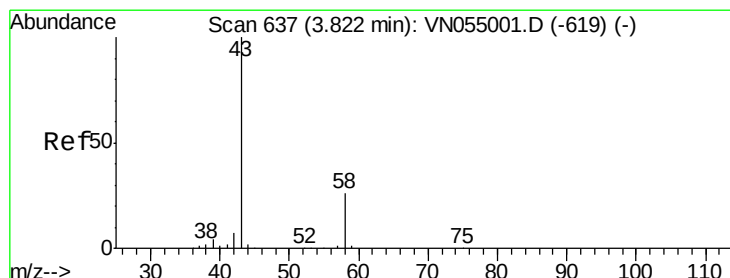
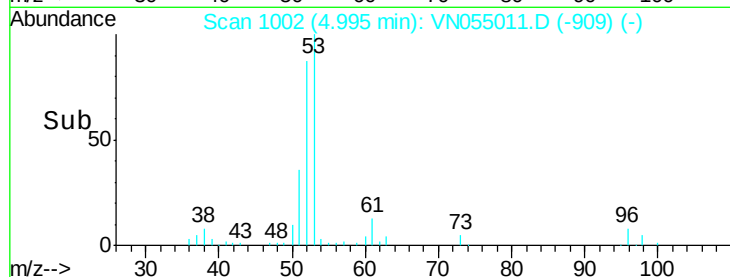
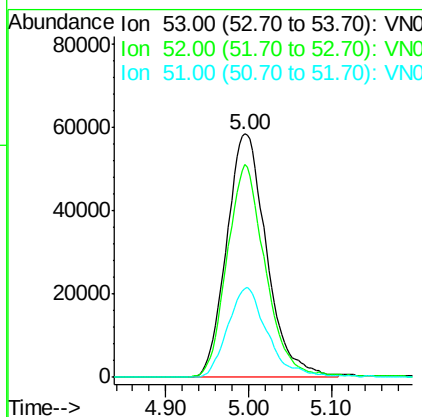
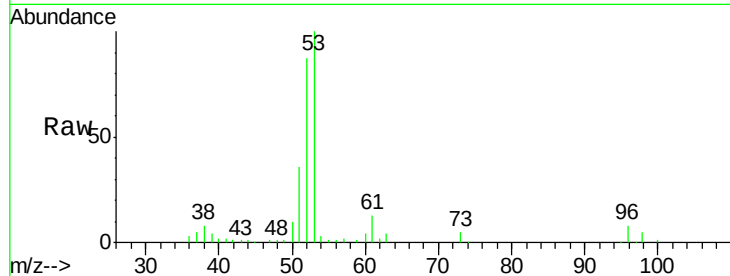
ClientSampleId :

VN0413WBSD01

Tot Ion:	53	Resp:	196393
Ion	Ratio	Lower	Upper
53	100		
52	82.8	65.9	98.9
51	36.6	29.7	44.5

Manual Integrations
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#16

Acetone

Concen: 97.307 ug/l

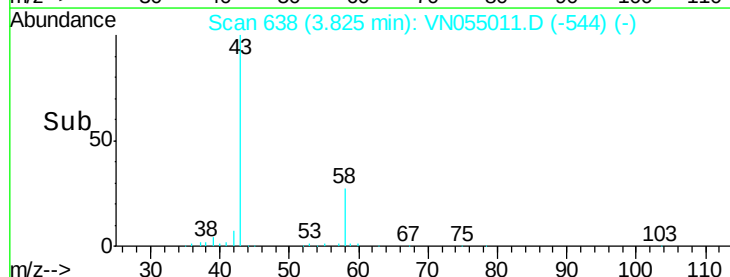
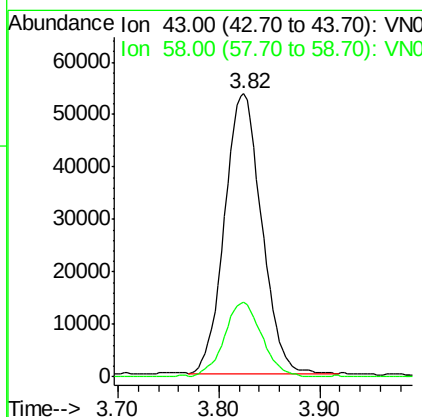
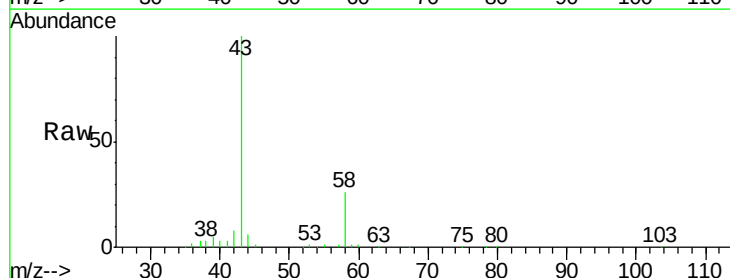
RT: 3.82 min Scan# 638

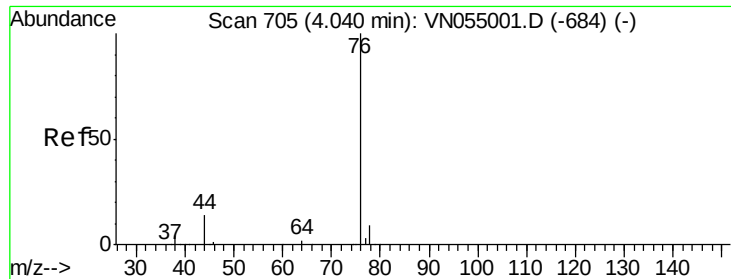
Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	43	Resp:	136079
Ion	Ratio	Lower	Upper
43	100		
58	26.3	20.9	31.3





#17

Carbon Disulfide

Concen: 17.600 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion: 76 Resp: 179785

Ion Ratio Lower Upper

76 100

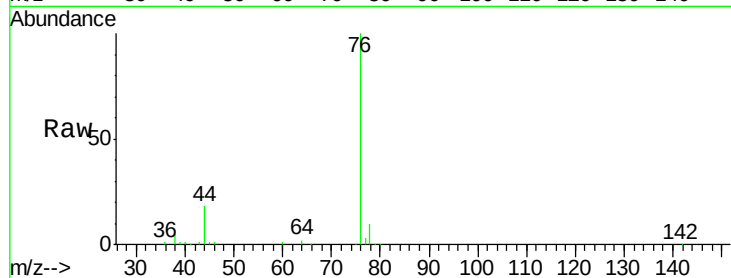
78 9.9 7.2 10.8

Manual Integrations

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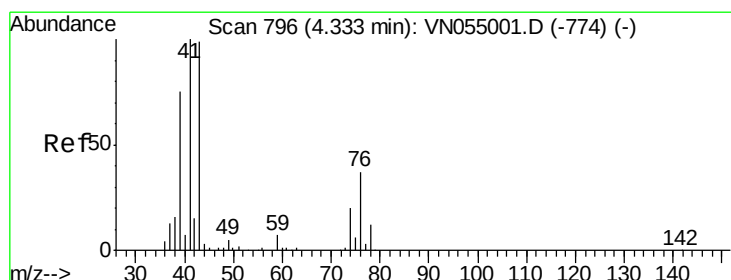
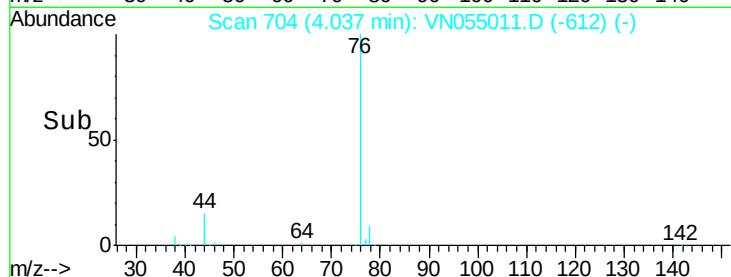
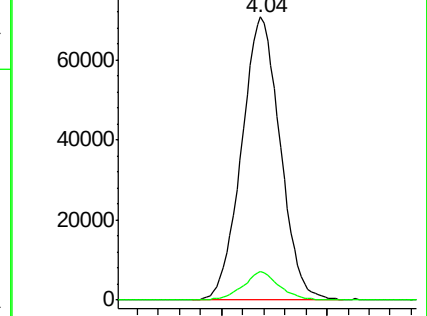
MMDadoda

4/16/2019 1:58:34 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 21.906 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN055011.D

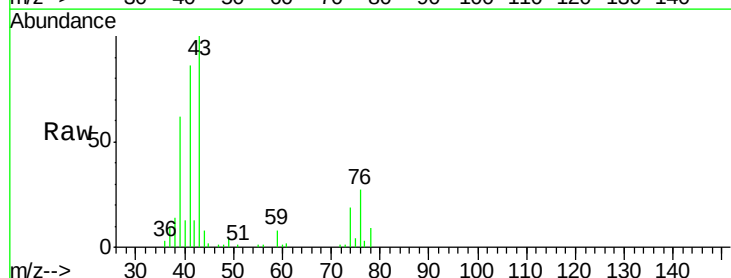
Acq: 12 Apr 2019 20:39

Tgt Ion: 43 Resp: 94962

Ion Ratio Lower Upper

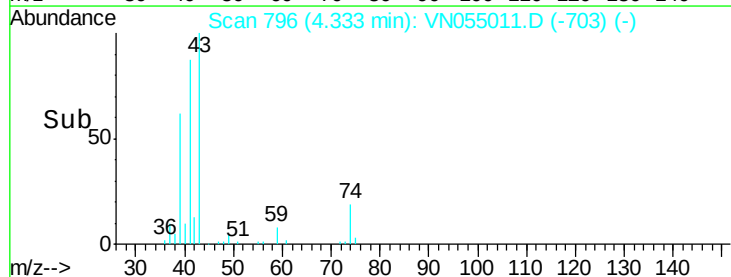
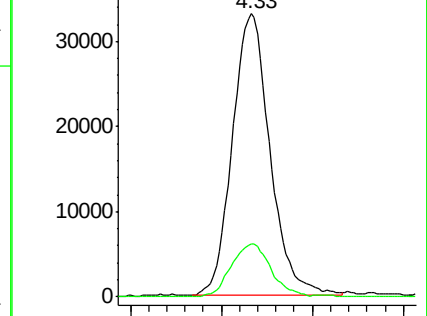
43 100

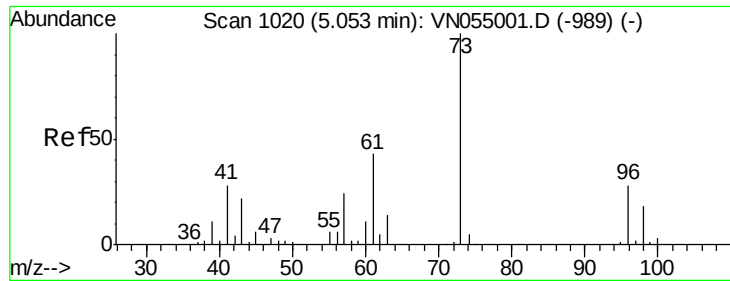
74 19.8 16.1 24.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





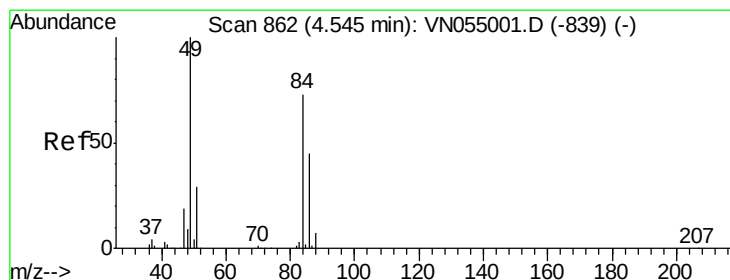
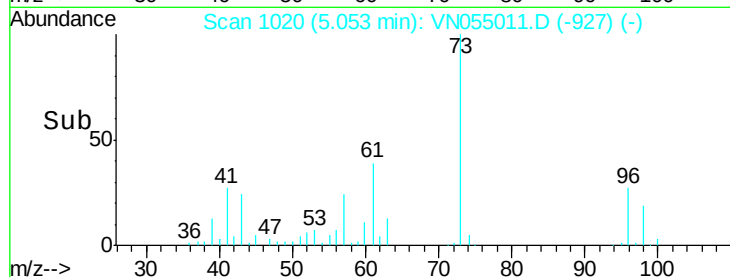
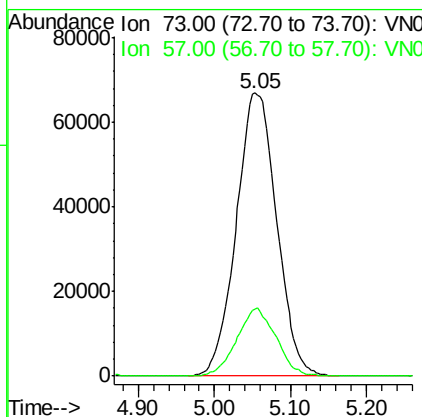
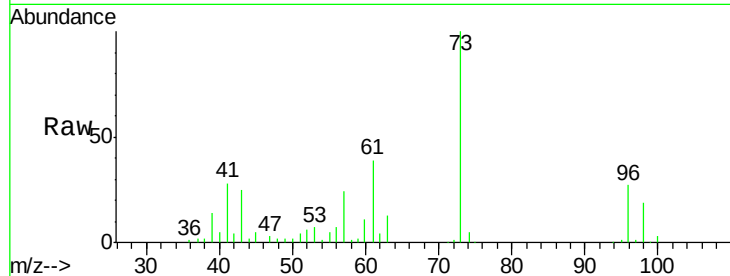
#19
Methvl tert-butvl Ether
Concen: 22.043 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampleId :
VN0413WBSD01

Tot Ion: 73 Resp: 247009
Ion Ratio Lower Upper
73 100
57 23.9 19.0 28.4

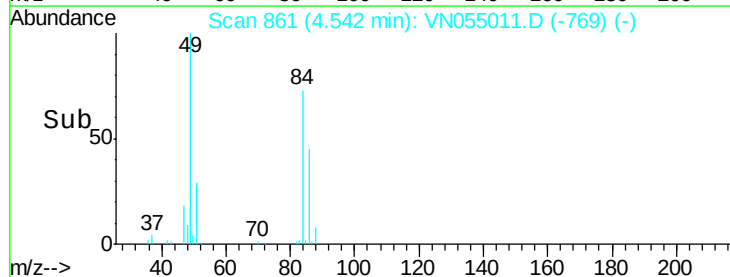
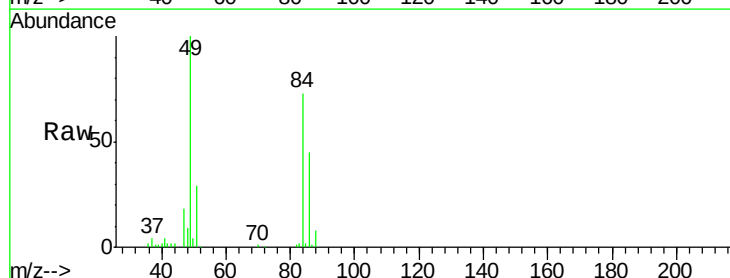
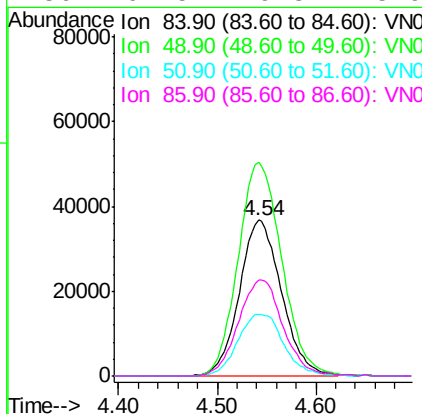
Manual Integrations
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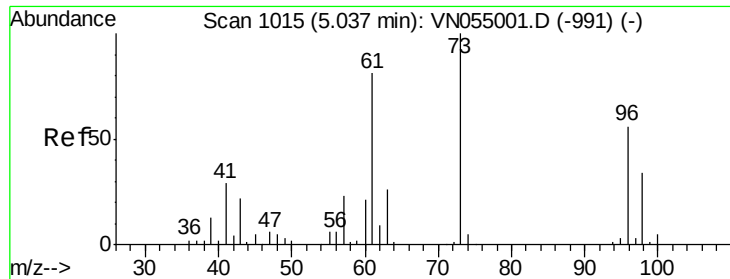
MMDadoda
4/16/2019 1:58:34 PM



#20
Methylene Chloride
Concen: 23.253 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion: 84 Resp: 109221
Ion Ratio Lower Upper
84 100
49 137.2 109.4 164.2
51 39.7 32.2 48.4
86 61.5 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 20.906 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion: 96 Resp: 86378

Ion Ratio Lower Upper

96 100

61 151.1 114.9 172.3

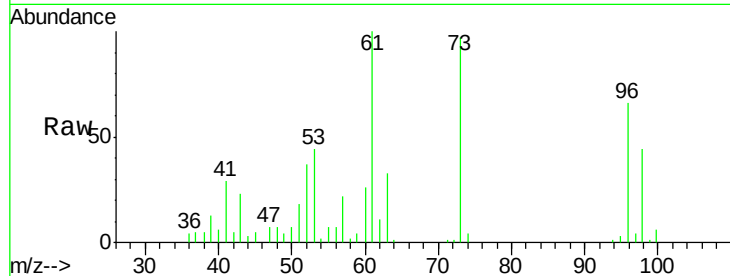
98 66.2 48.4 72.6

Manual Integrations

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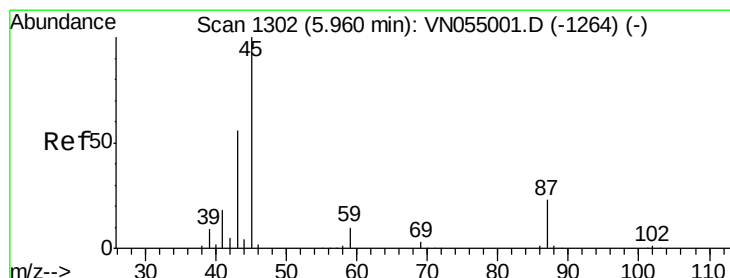
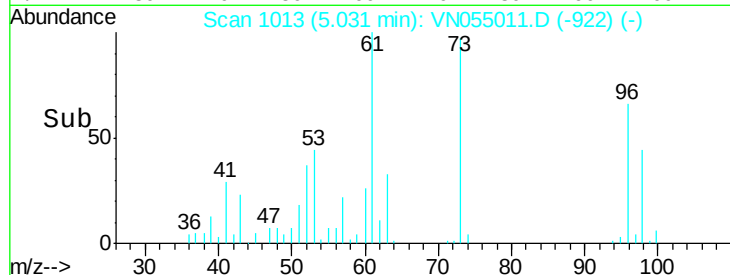
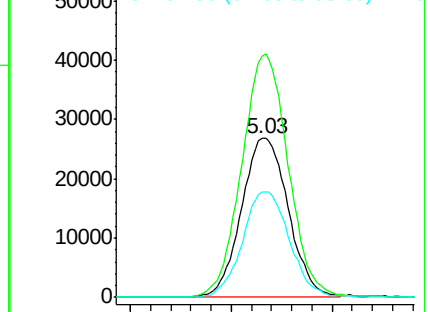


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 21.828 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion: 45 Resp: 339140

Ion Ratio Lower Upper

45 100

43 59.6 44.8 67.2

87 22.4 18.9 28.3

59 10.9 7.9 11.9

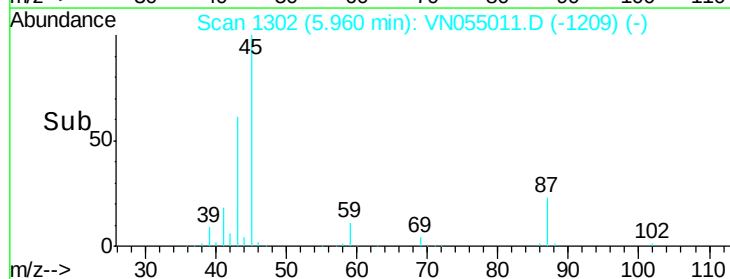
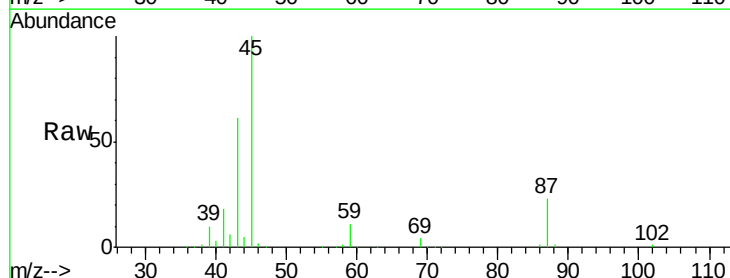
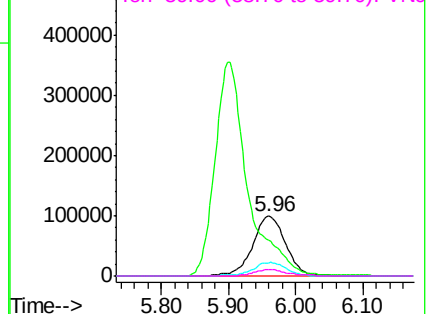
Abundance

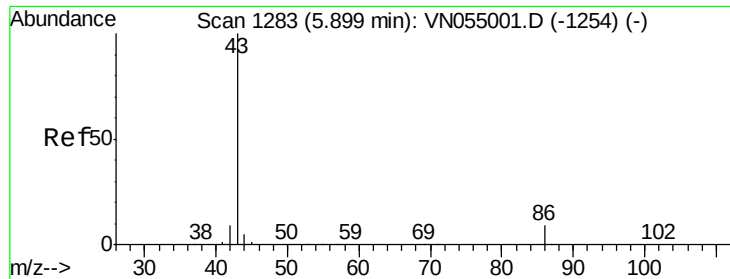
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 110.430 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion: 43 Resp: 1200054

Ion Ratio Lower Upper

43 100

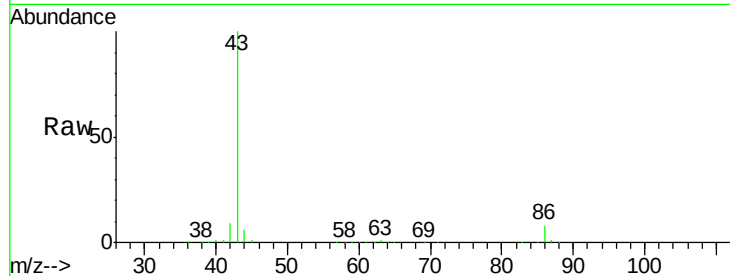
86 8.4 7.0 10.4

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

400000

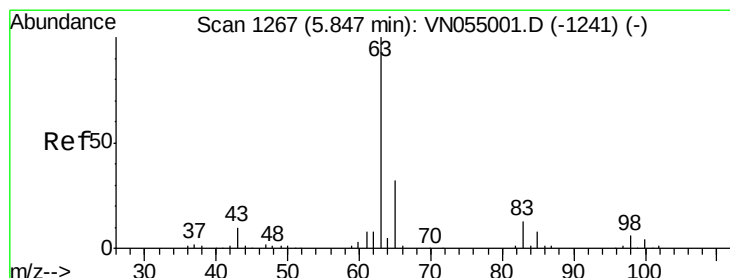
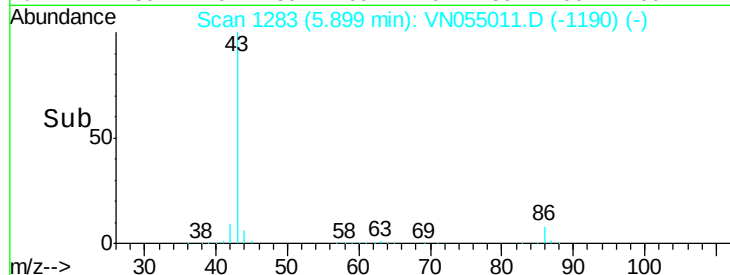
300000

200000

100000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.861 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

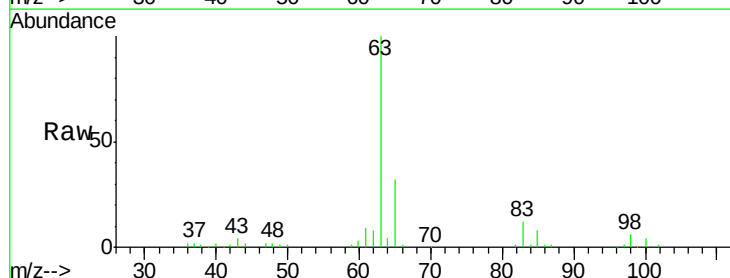
Tgt Ion: 63 Resp: 175053

Ion Ratio Lower Upper

63 100

98 5.8 2.8 8.4

100 4.2 2.0 5.8



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

5.84

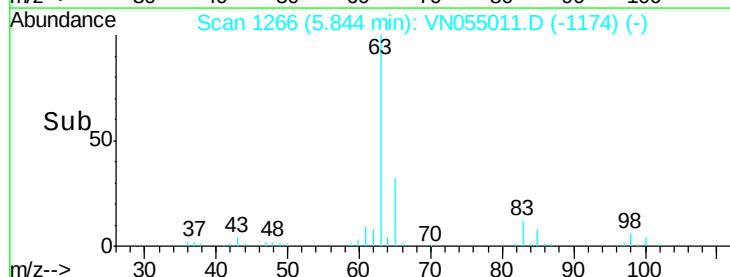
60000

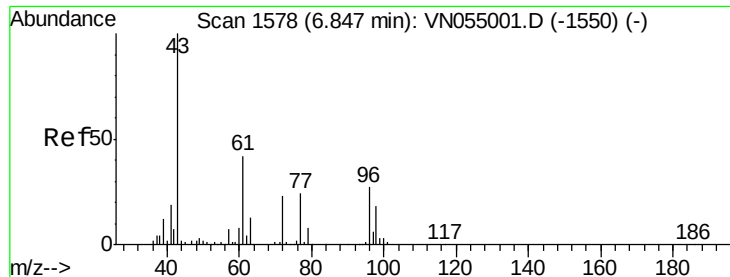
40000

20000

0

Time-->





#25

2-Butanone

Concen: 113.399 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion: 43 Resp: 244243

Ion Ratio Lower Upper

43 100

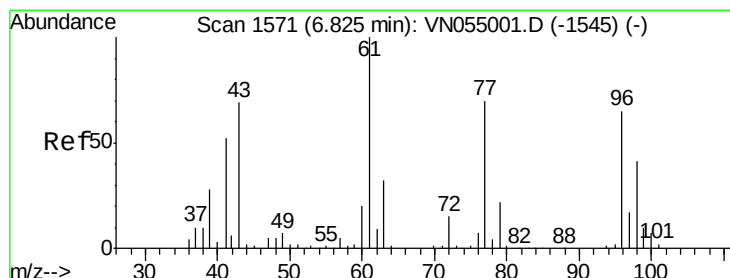
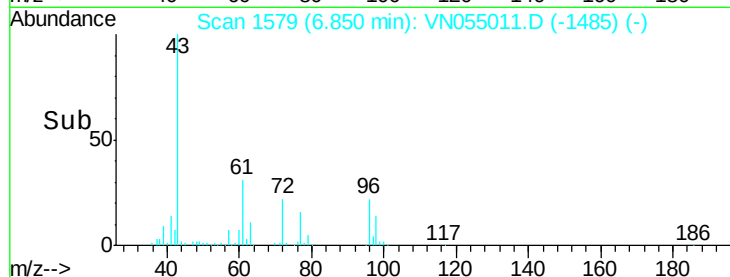
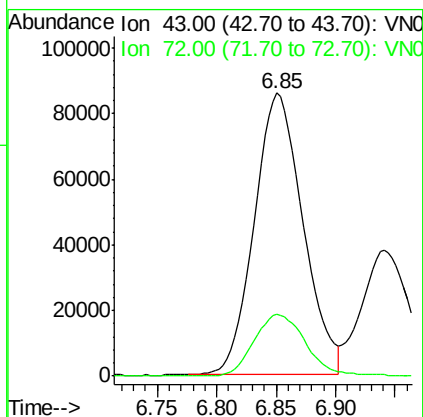
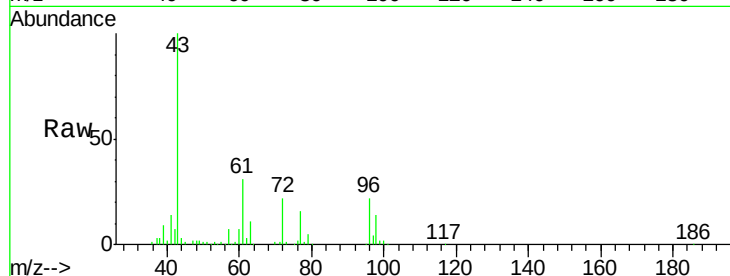
72 21.9 18.1 27.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 18.655 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN055011.D

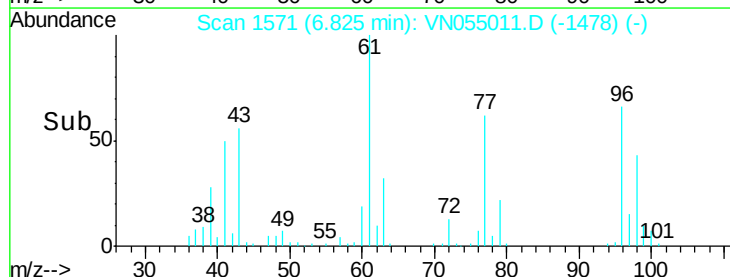
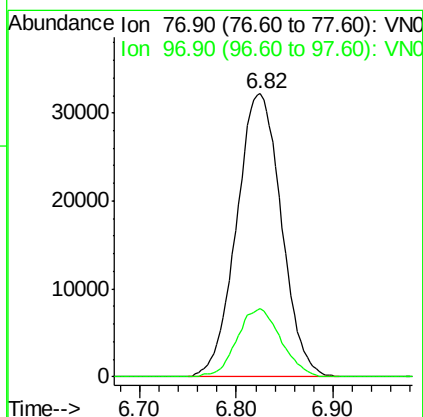
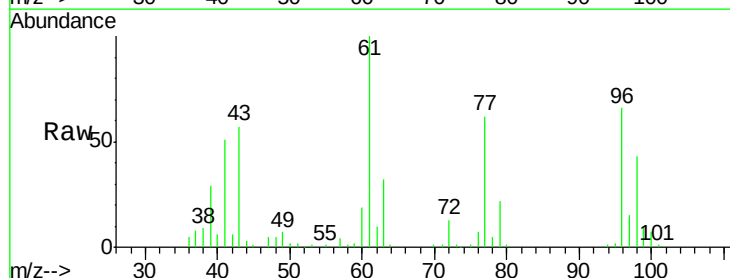
Acq: 12 Apr 2019 20:39

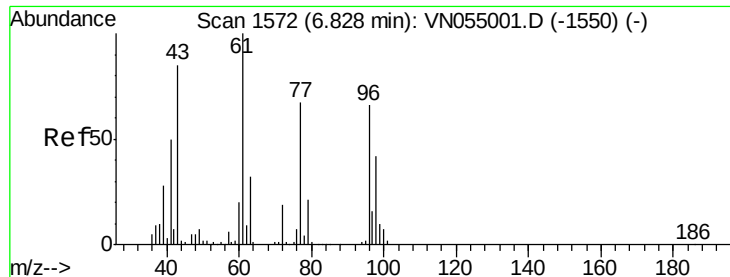
Tgt Ion: 77 Resp: 103568

Ion Ratio Lower Upper

77 100

97 23.5 11.3 33.9





#27

cis-1,2-Dichloroethene

Concen: 21.233 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

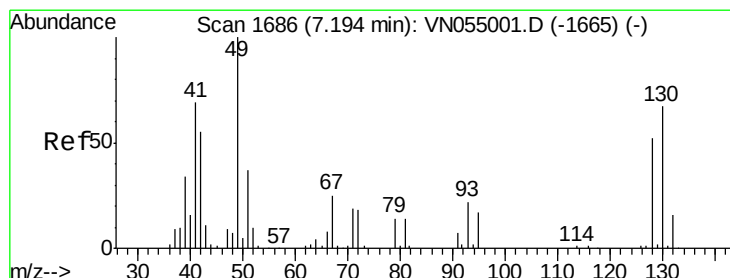
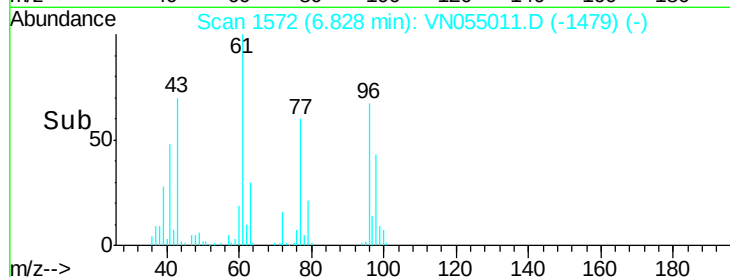
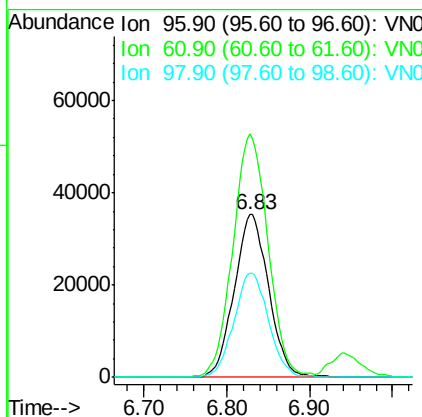
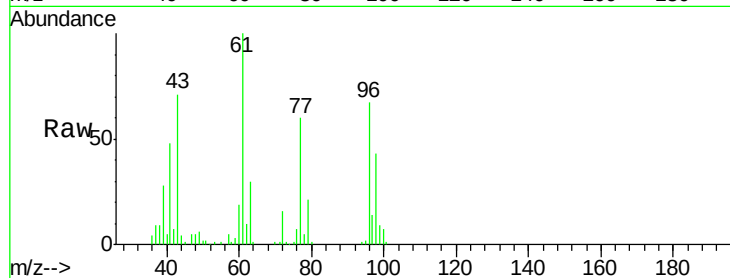
ClientSampled :

VN0413WBSD01

Tot Ion:	96	Resp:	101912
Ion	Ratio	Lower	Upper
96	100		
61	151.5	0.0	311.0
98	64.4	0.0	127.4

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#28

Bromochloromethane

Concen: 21.886 ug/l

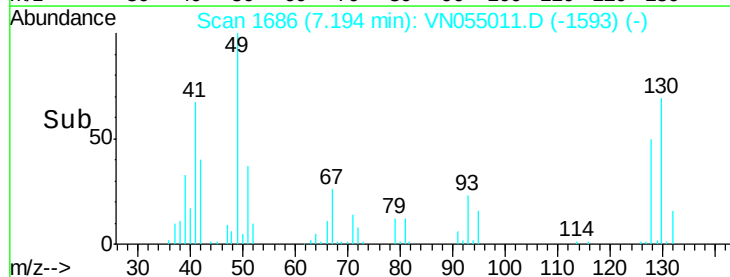
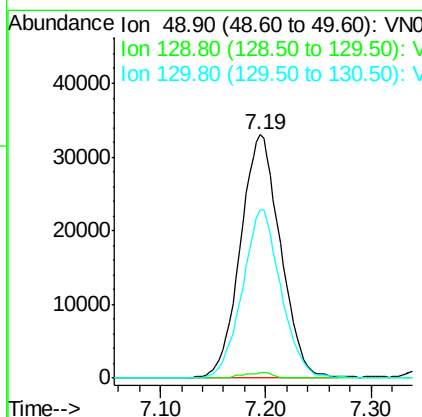
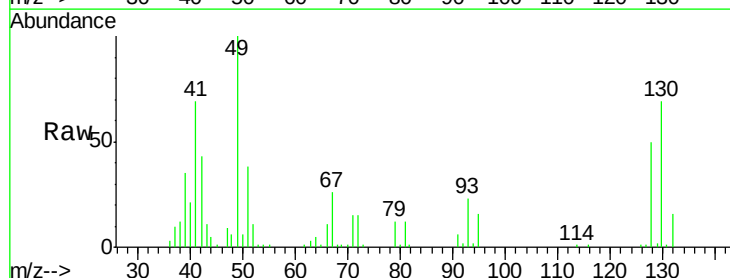
RT: 7.19 min Scan# 1686

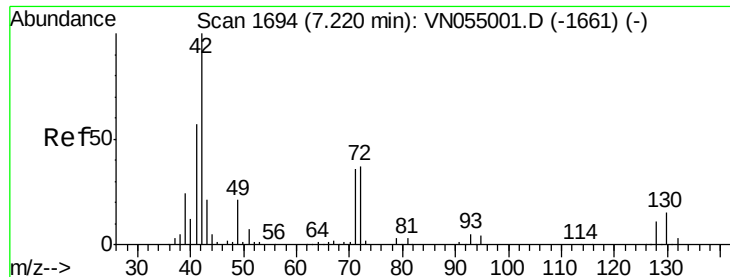
Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	49	Resp:	87137
Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	2.0
130	66.6	53.4	80.2





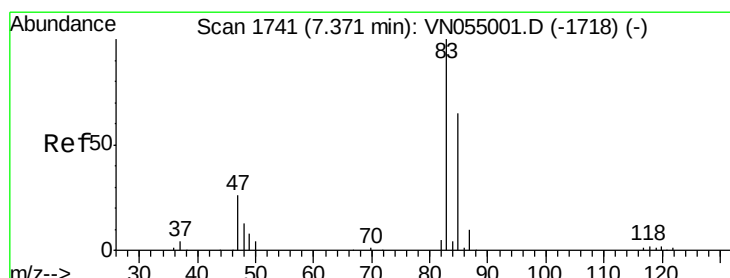
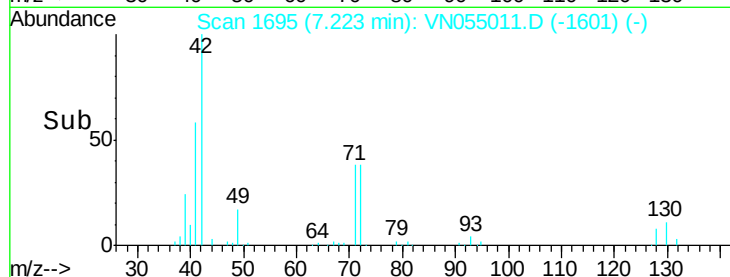
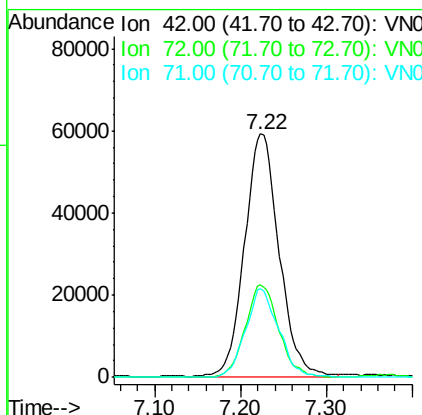
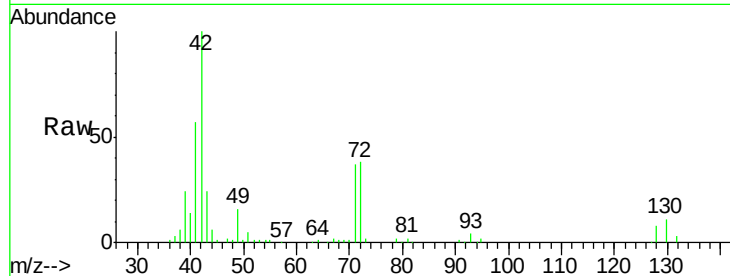
#29
Tetrahydrofuran
Concen: 116.495 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampleId :
VN0413WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.2	29.4	44.0
71	35.3	27.8	41.6

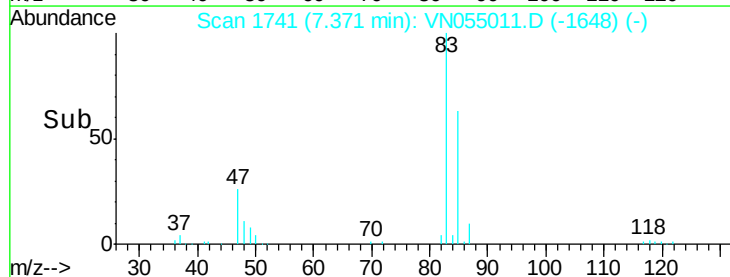
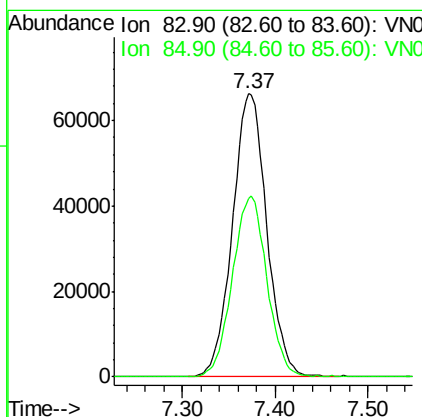
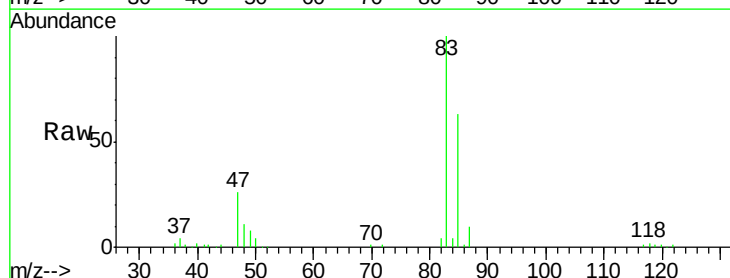
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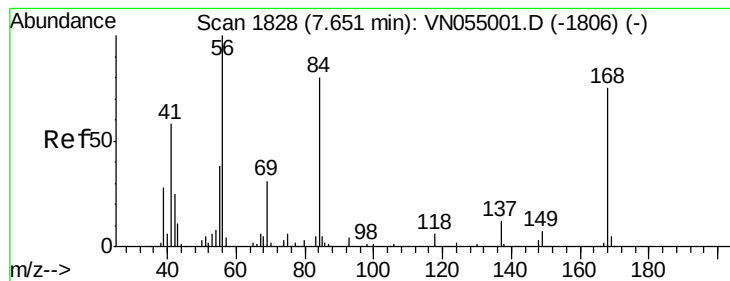
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#30
Chloroform
Concen: 21.250 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.8	77.6





#31

Cyclohexane

Concen: 20.314 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion: 56 Resp: 163976

Ion Ratio Lower Upper

56 100

69 34.7 24.5 36.7

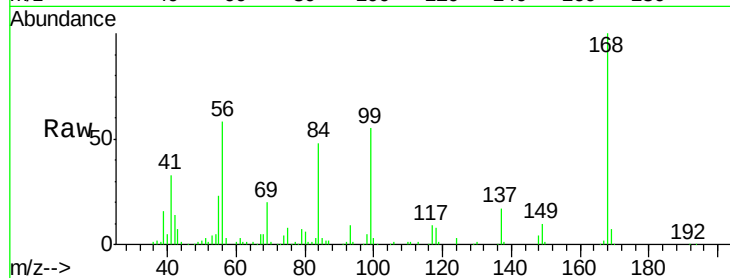
84 82.4 62.9 94.3

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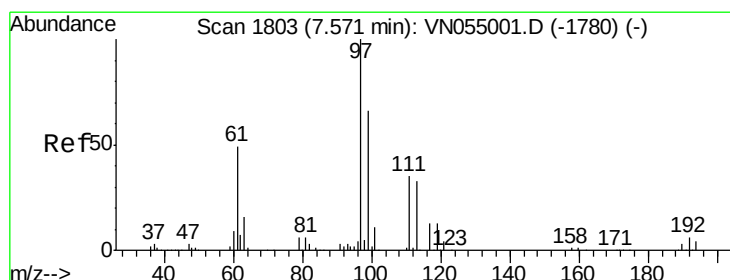
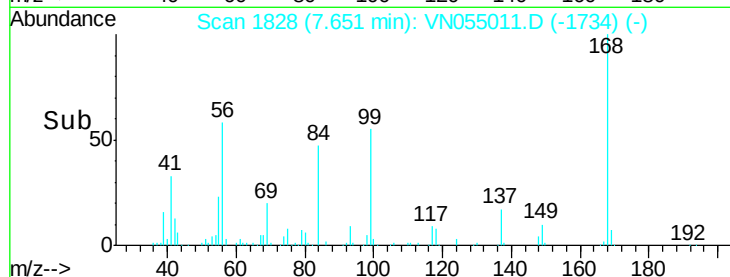
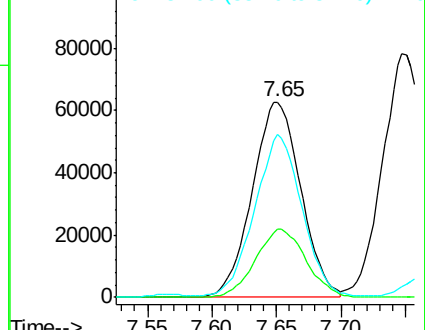


Abundance

Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 21.003 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

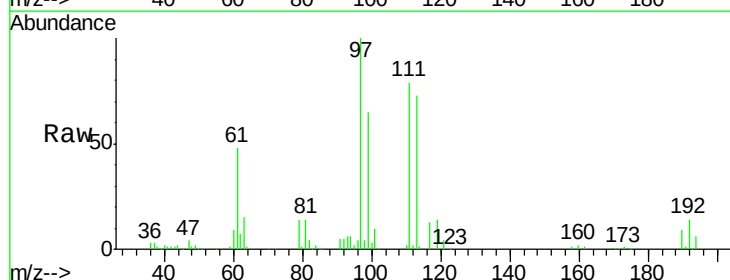
Tgt Ion: 97 Resp: 133891

Ion Ratio Lower Upper

97 100

99 63.5 51.6 77.4

61 48.8 38.3 57.5

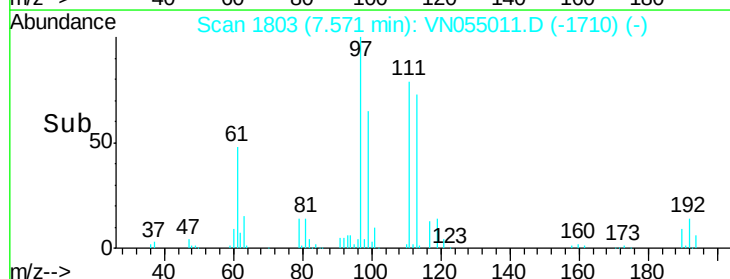
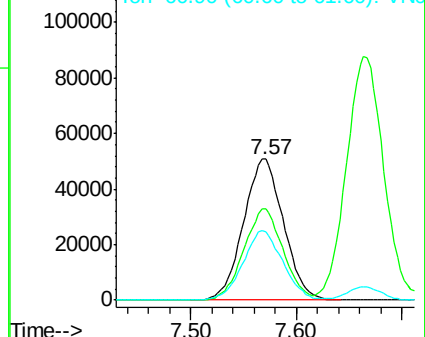


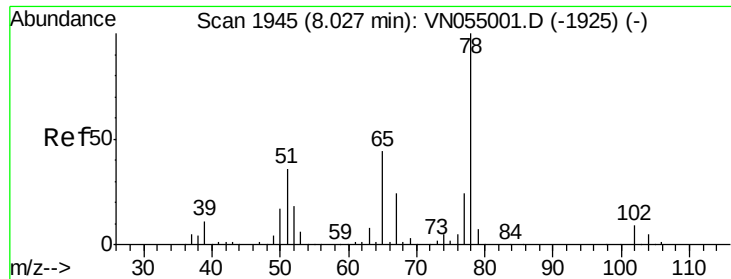
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0





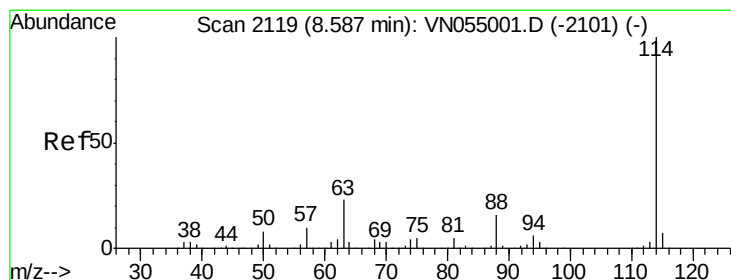
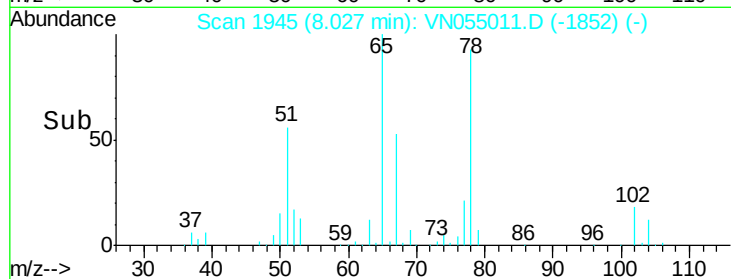
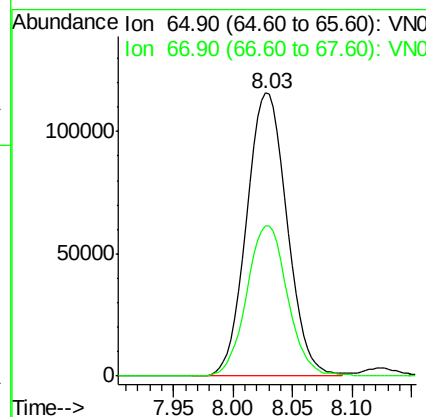
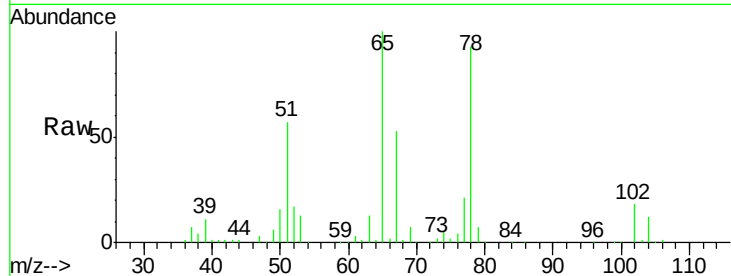
#33
 1,2-Dichloroethane-d4
 Concen: 53.689 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	273309		
67	53.7	0.0	106.4	

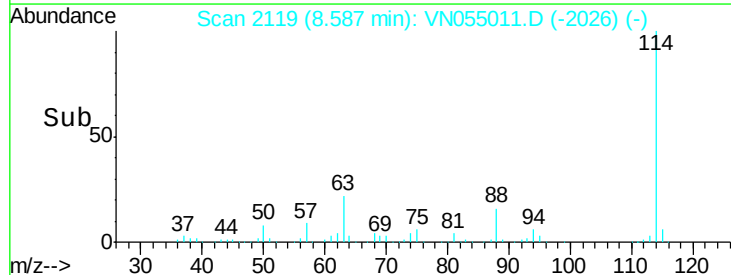
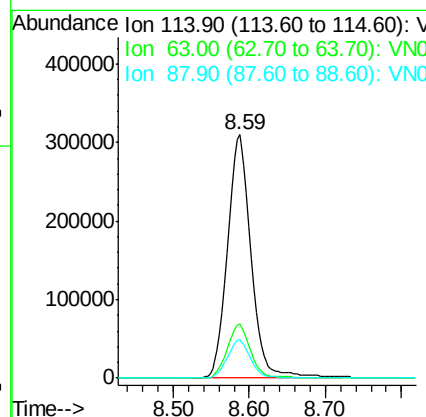
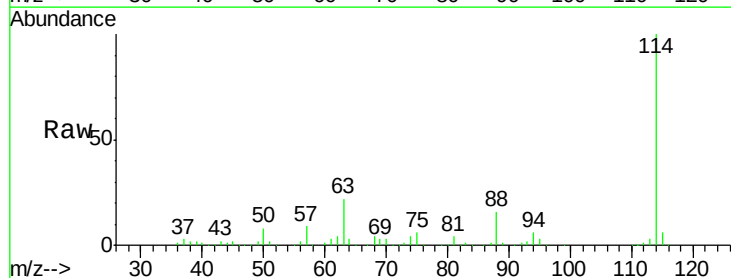
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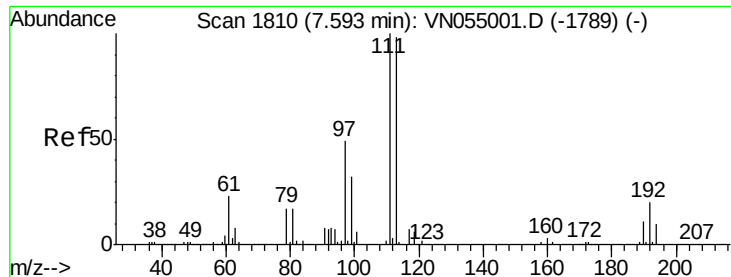
MMDadoda
 4/16/2019 1:58:34 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	671541		
63	22.0	0.0	45.2	
88	15.8	0.0	31.8	





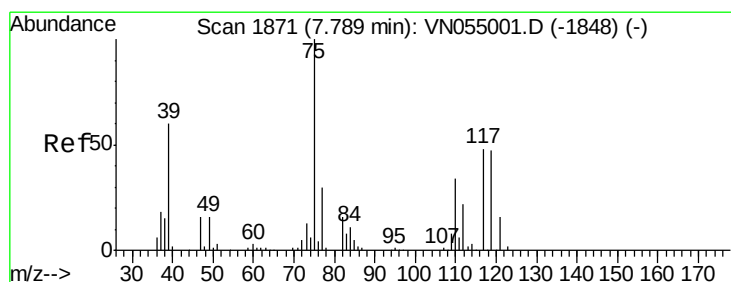
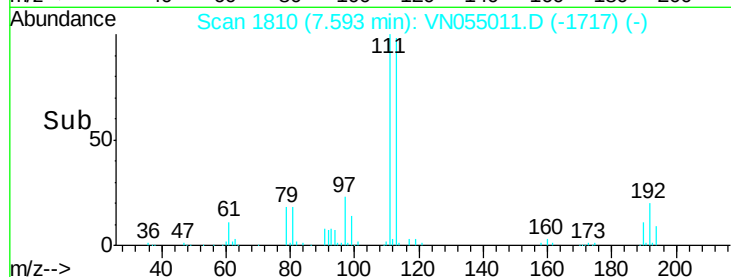
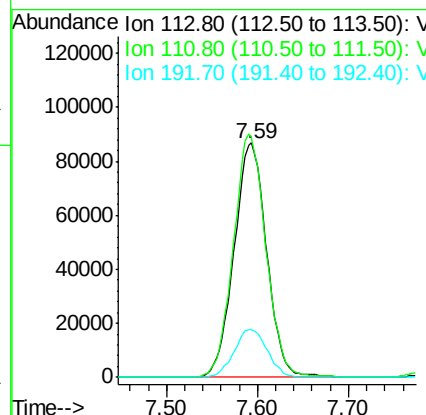
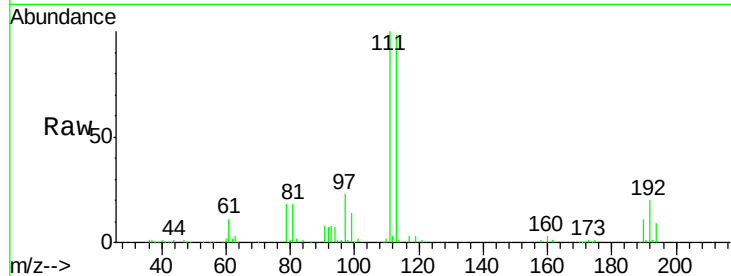
#35
 Dibromofluoromethane
 Concen: 50.536 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	216337		
111	102.9	82.1	123.1	
192	20.8	16.5	24.7	

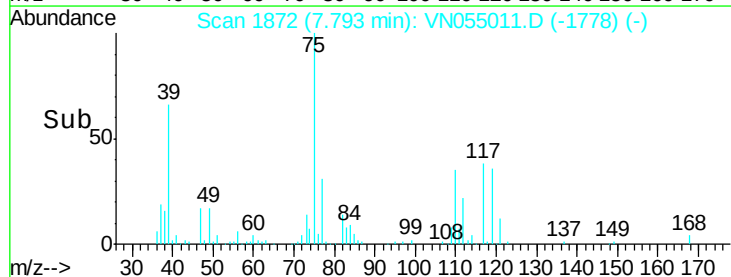
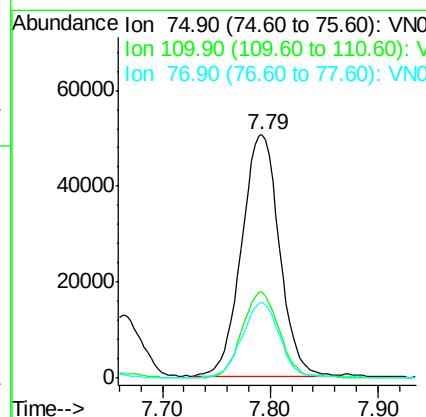
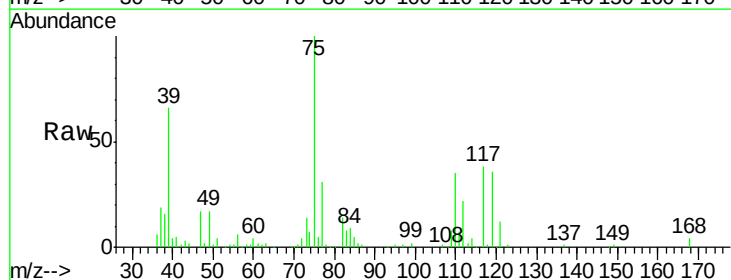
Manual Integrations
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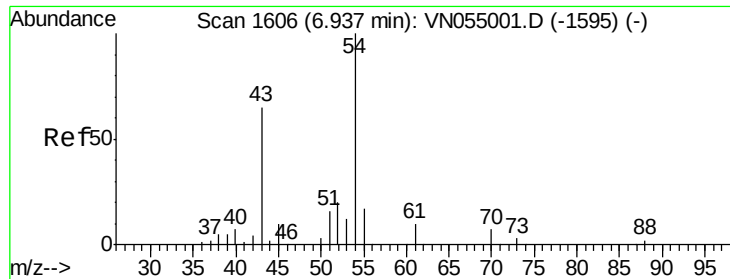
MMDadoda
 4/16/2019 1:58:34 PM



#36
 1,1-Dichloropropene
 Concen: 19.743 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	122533		
110	35.5	17.5	52.5	
77	31.6	24.9	37.3	





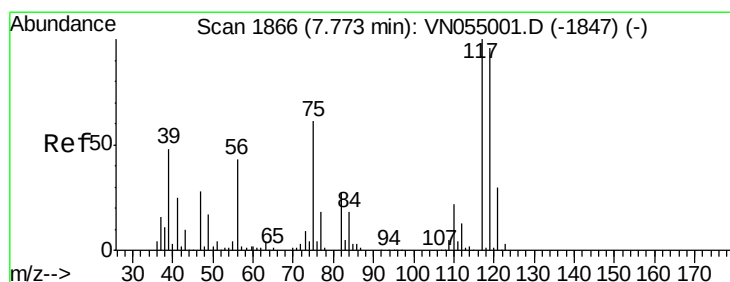
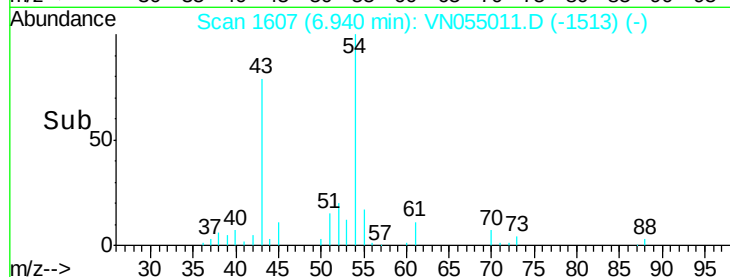
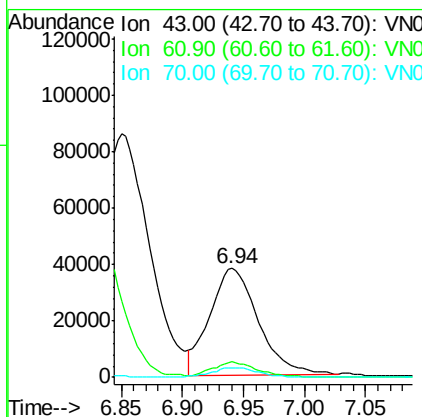
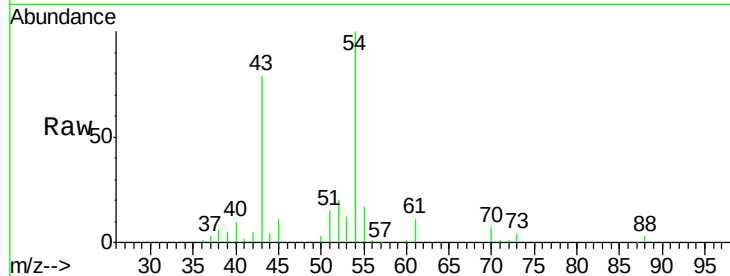
#37
Ethyl Acetate
Concen: 22.411 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampleId :
VN0413WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.0	15.0
70	8.7	7.1	10.7

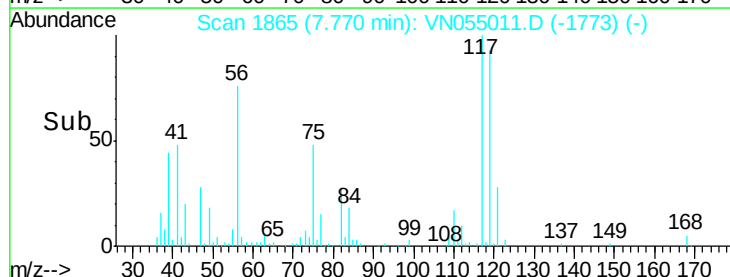
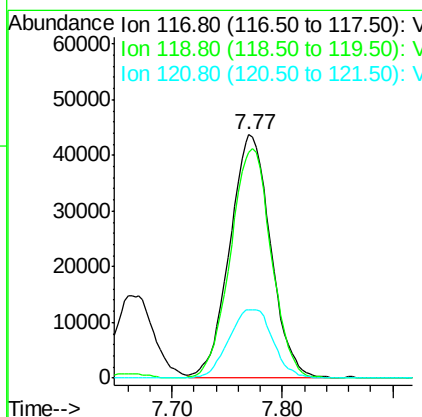
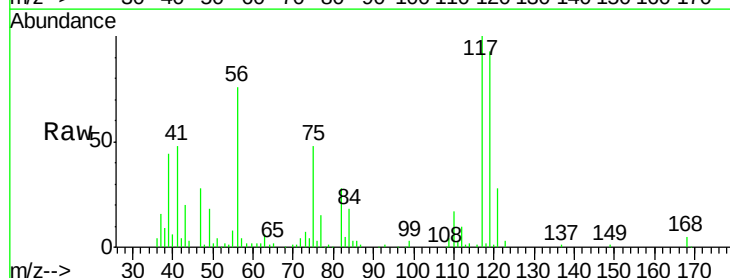
Manual Integrations
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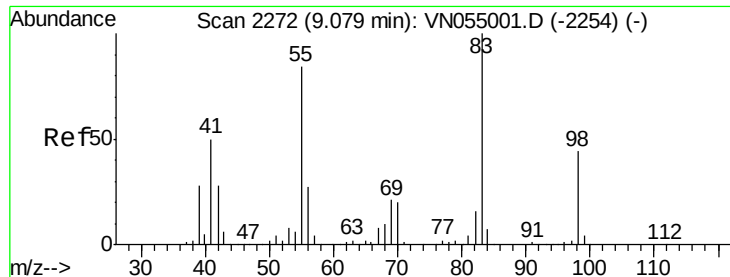
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#38
Carbon Tetrachloride
Concen: 19.045 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.2	76.3	114.5
121	28.3	23.9	35.9





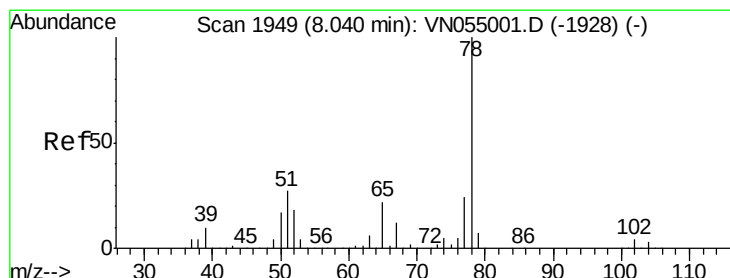
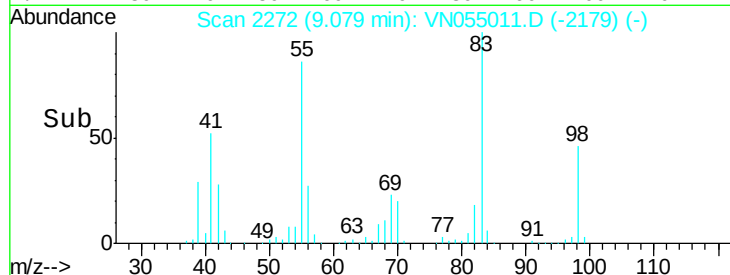
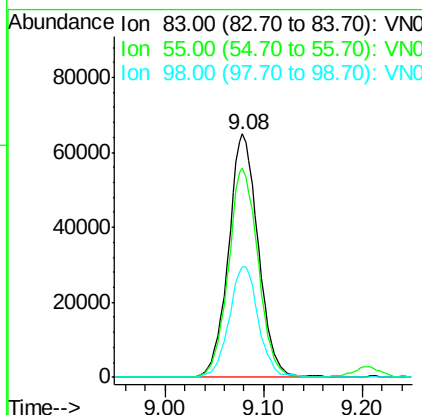
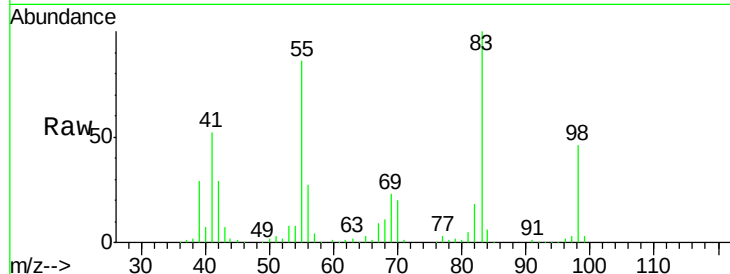
#39
Methylvlcyclohexane
Concen: 19.231 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampleId :
VN0413WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.0	67.0	100.4
98	45.5	35.6	53.4

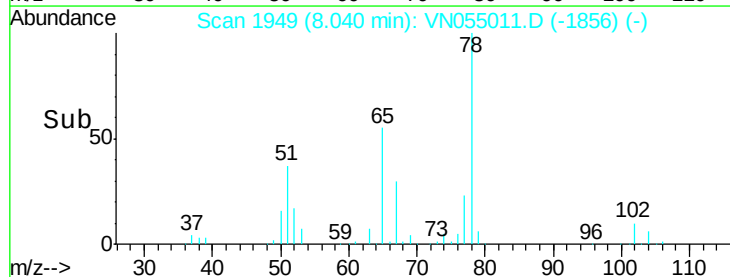
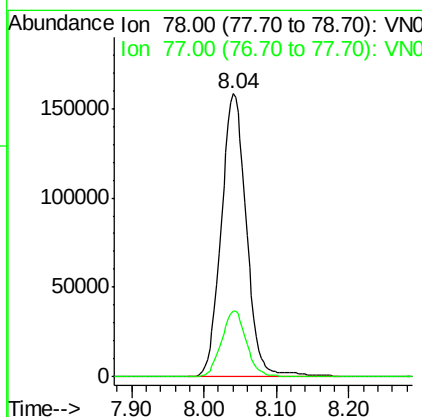
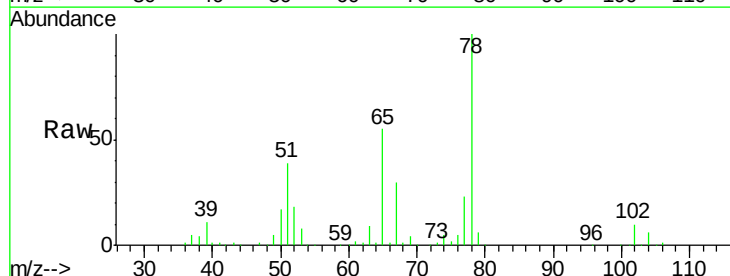
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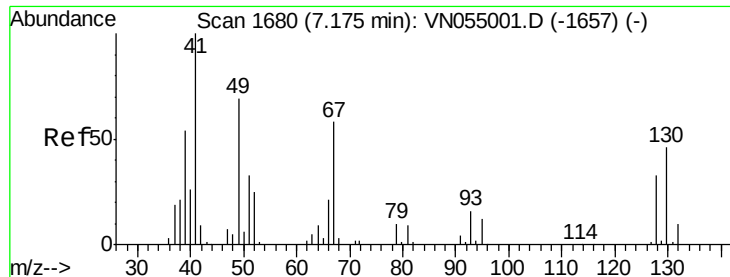
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#40
Benzene
Concen: 20.387 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2





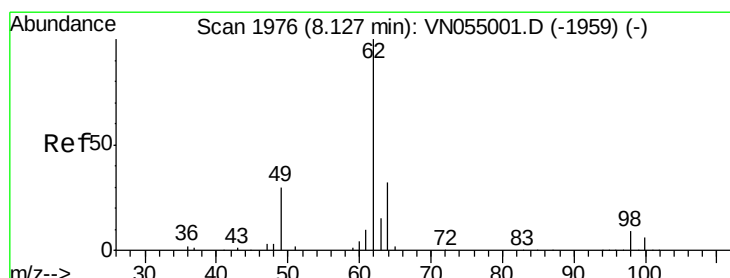
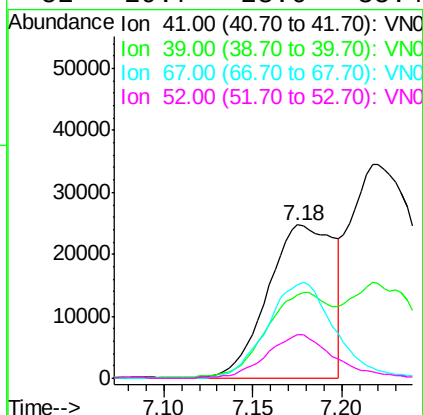
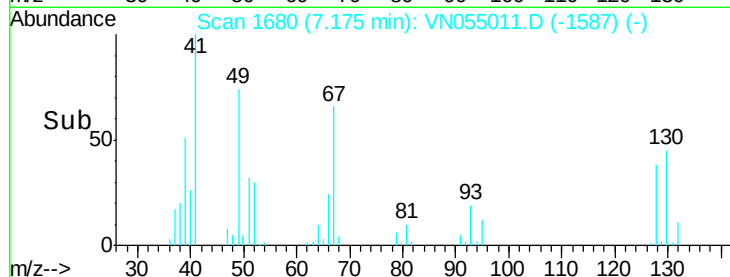
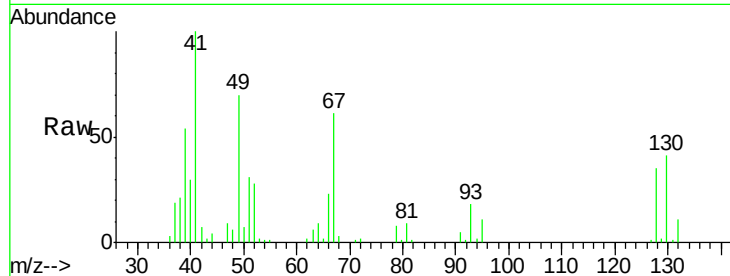
#41
Methacrylonitrile
Concen: 22.265 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampled :
VN0413WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.6	45.6	68.4	
67	64.0	57.0	85.6	
52	29.7	23.6	35.4	

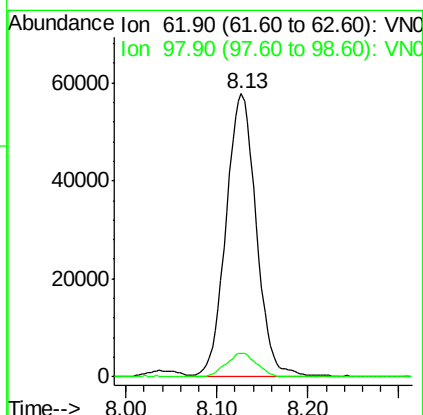
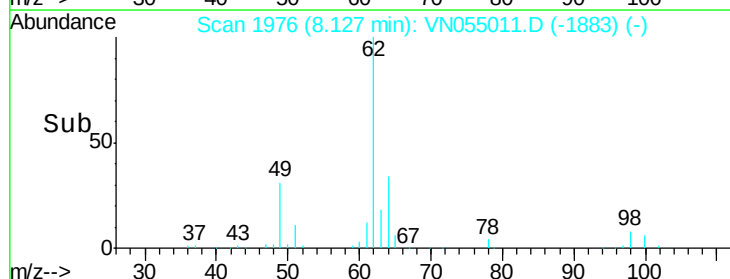
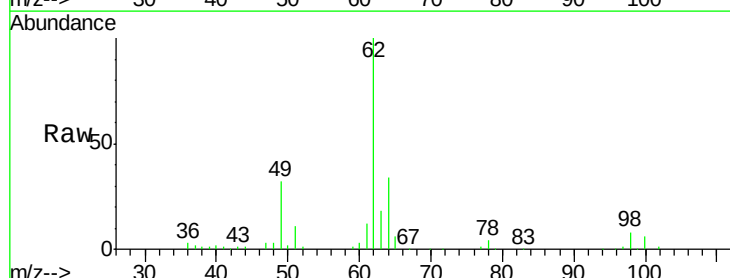
Manual Integrations
APPROVED

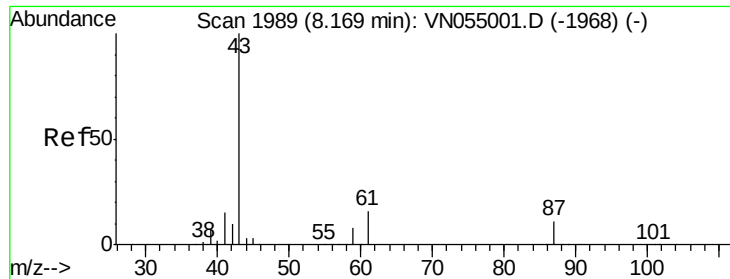
MMDadoda
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#42
1,2-Dichloroethane
Concen: 20.106 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.5	0.0	17.4	





#43

Isopropyl Acetate

Concen: 21.668 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

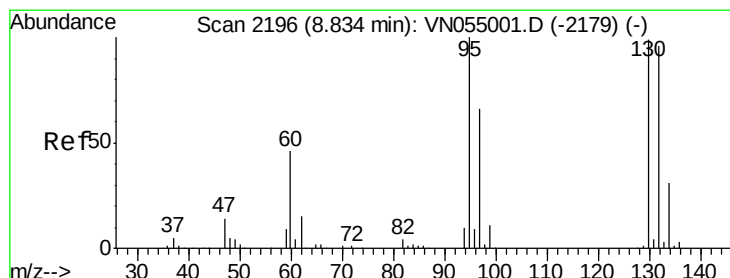
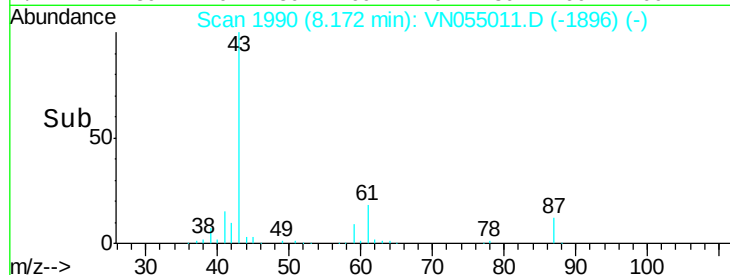
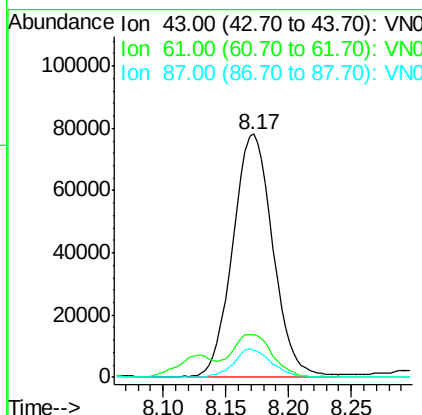
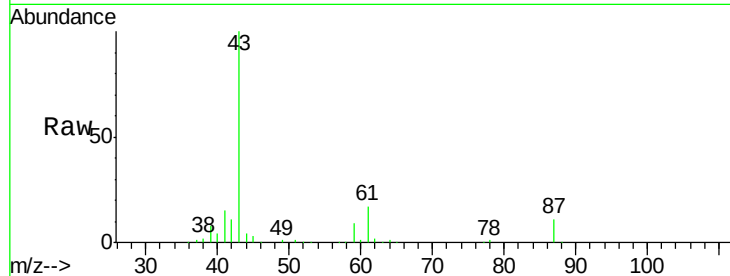
ClientSampleId :

VN0413WBSD01

Tot Ion:	43	Resp:	172627
Ion	Ratio	Lower	Upper
43	100		
61	17.2	14.3	21.5
87	11.0	8.6	13.0

Manual Integrations
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#44

Trichloroethene

Concen: 20.038 ug/l

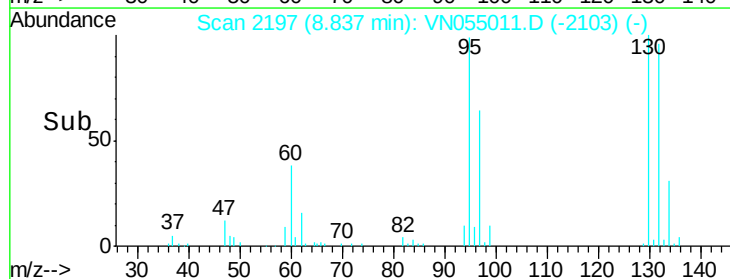
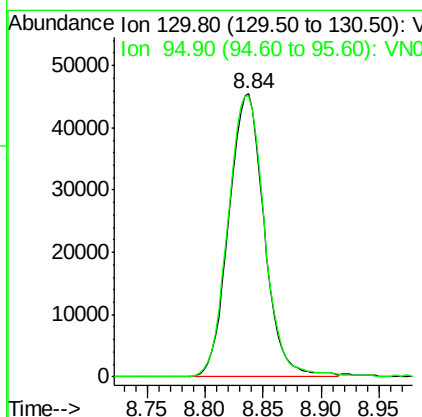
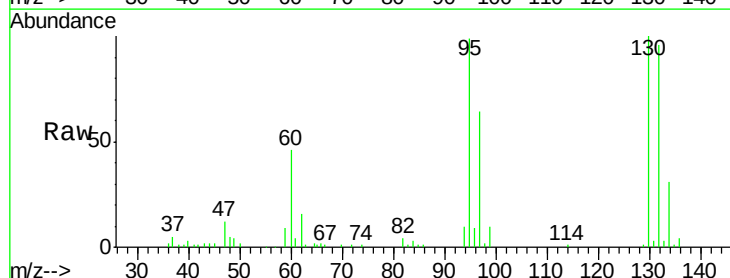
RT: 8.84 min Scan# 2197

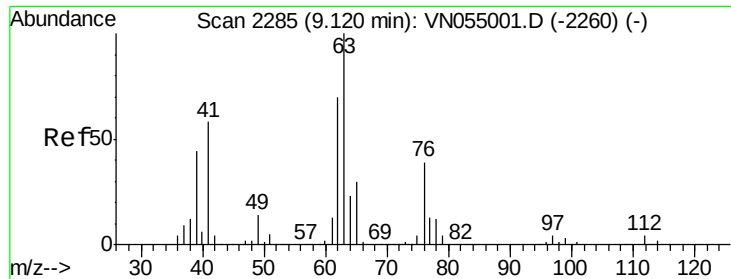
Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	130	Resp:	96087
Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	201.6





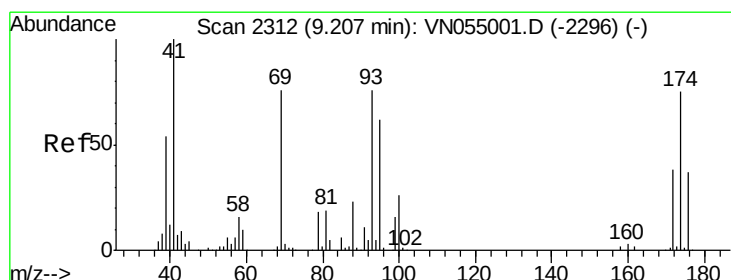
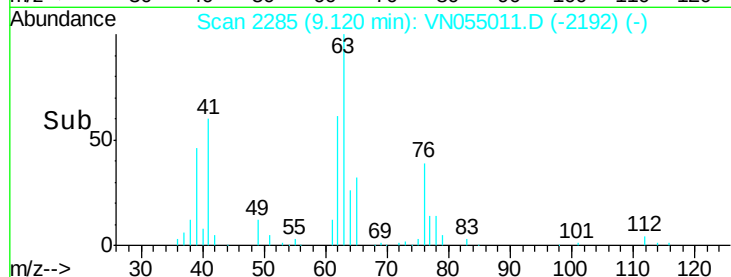
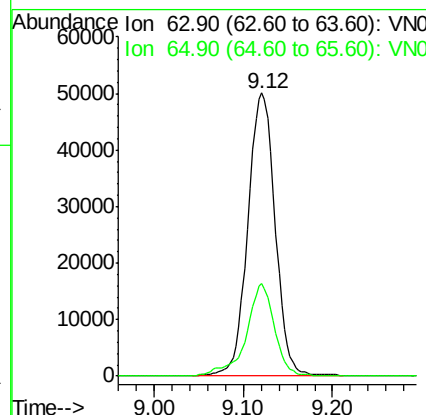
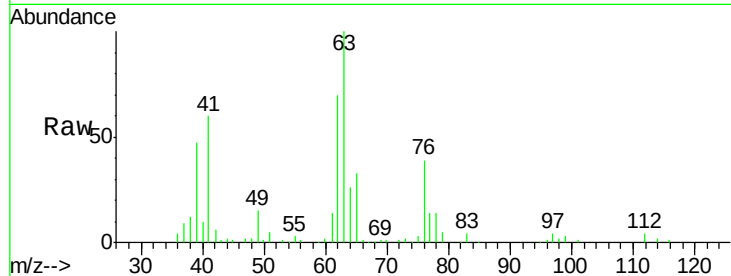
#45
 1,2-Dichloropropane
 Concen: 20.118 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Tot Ion	63	Resp	106530
Ion Ratio	63	100	
Lower	65	32.6	24.4
Upper			36.6

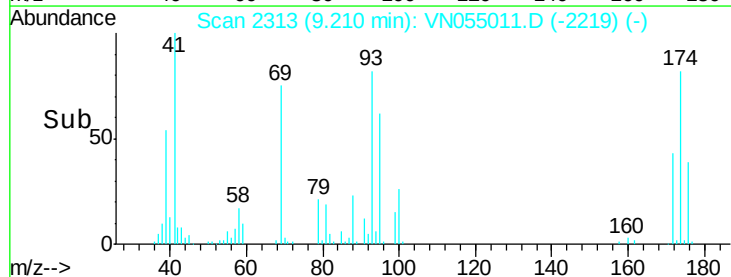
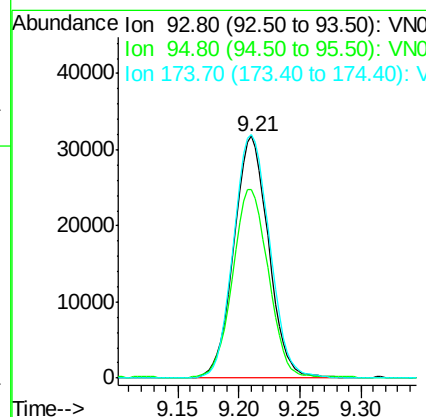
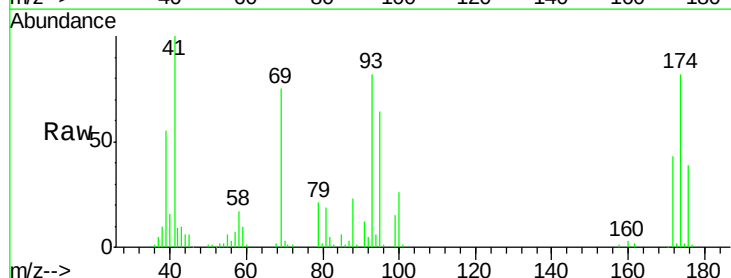
Manual Integrations
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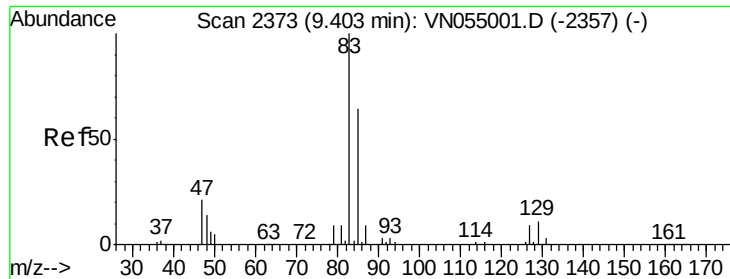
MMDadoda
 4/16/2019 1:58:34 PM



#46
 Dibromomethane
 Concen: 20.739 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion	93	Resp	62923
Ion Ratio	93	100	
Lower	95	81.0	65.0
Upper	174	104.8	81.0
			121.6





#47

Bromodichloromethane

Concen: 20.129 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

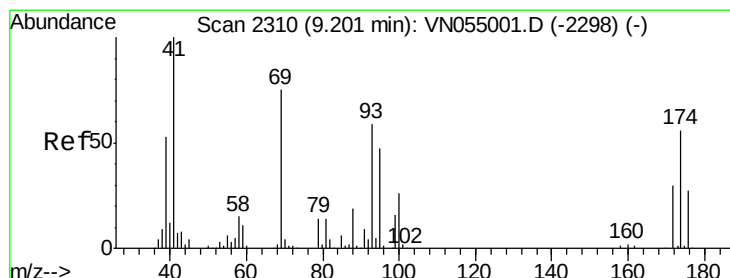
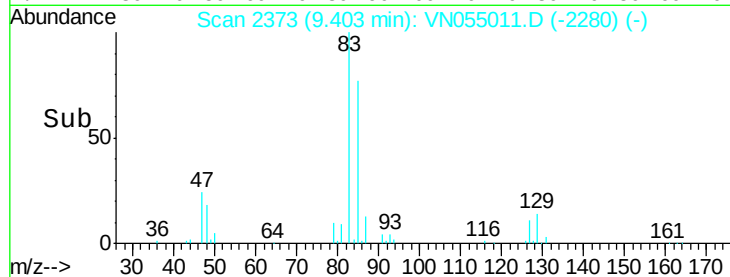
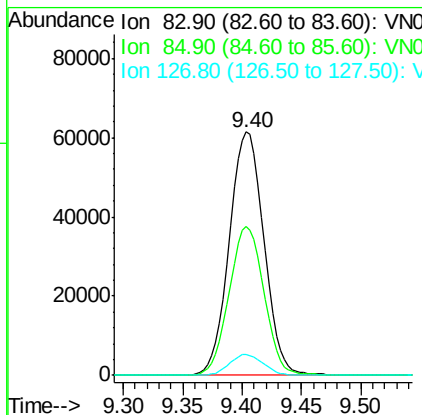
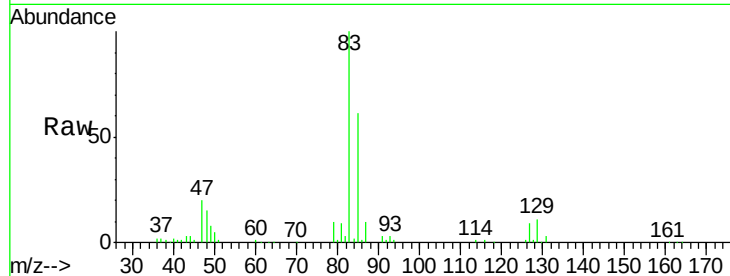
ClientSampleId :

VN0413WBSD01

Tot Ion:	83	Resp:	124195
Ion	Ratio	Lower	Upper
83	100		
85	61.1	51.2	76.8
127	8.6	6.8	10.2

Manual Integrations
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4/16/2019 1:58:34 PM



#48

Methyl methacrylate

Concen: 21.212 ug/l

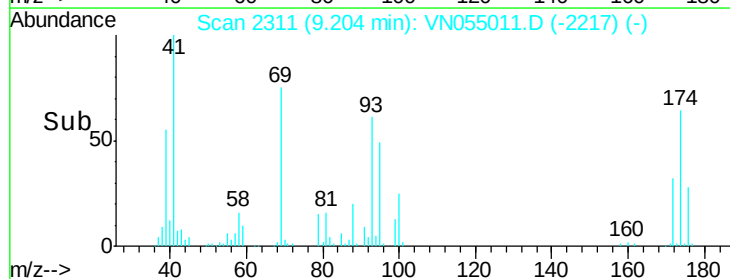
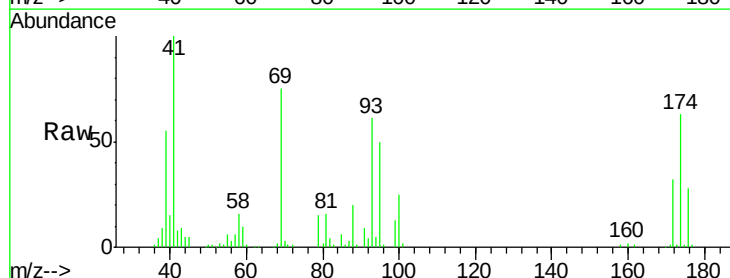
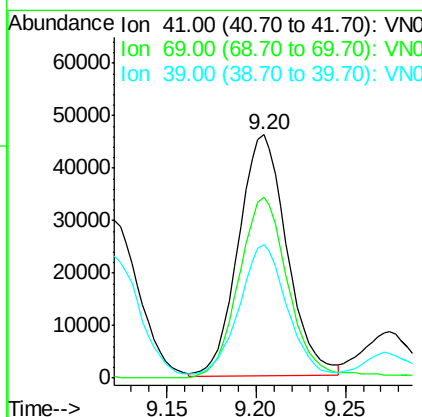
RT: 9.20 min Scan# 2311

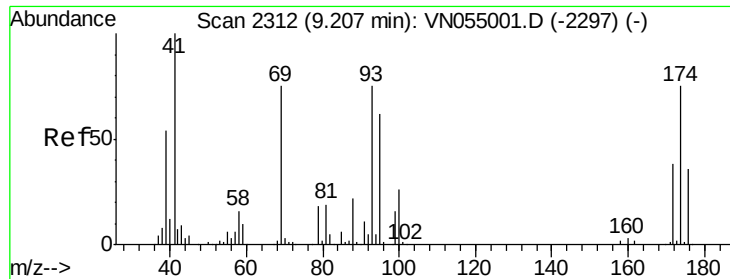
Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	41	Resp:	87056
Ion	Ratio	Lower	Upper
41	100		
69	77.9	60.5	90.7
39	53.8	43.9	65.9





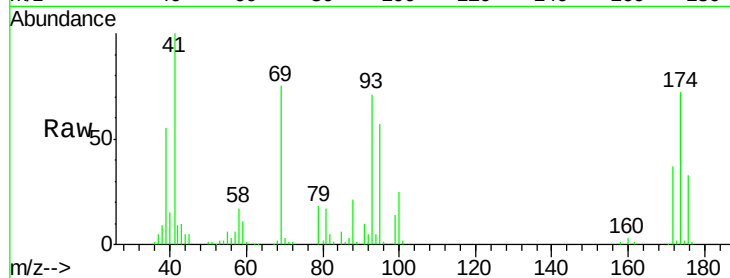
#49
1,4-Dioxane
Concen: 455.577 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampled :
VN0413WBSD01

Tot Ion	88	Resp	20108
Ion	Ratio	Lower	Upper
88	100		
43	38.1	31.8	47.8
58	74.6	61.6	92.4

Manual Integrations
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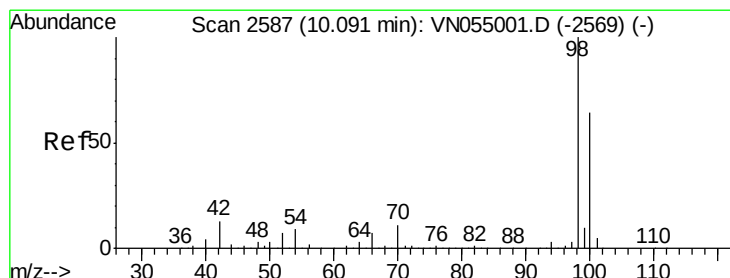
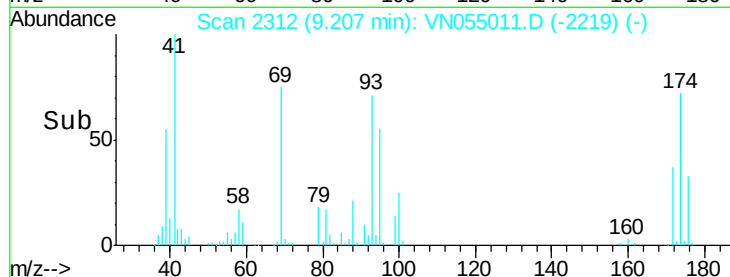
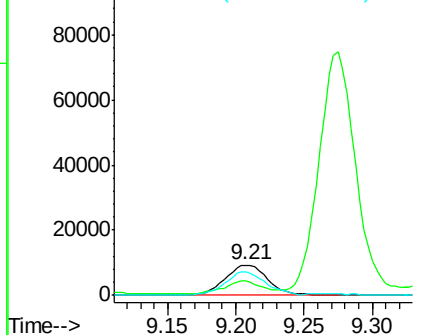


Abundance

Ion 88.00 (87.70 to 88.70): VN0

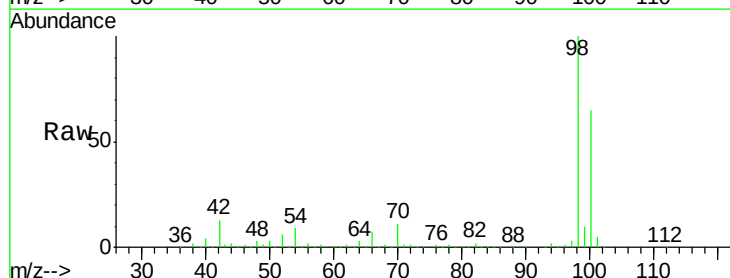
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 49.828 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

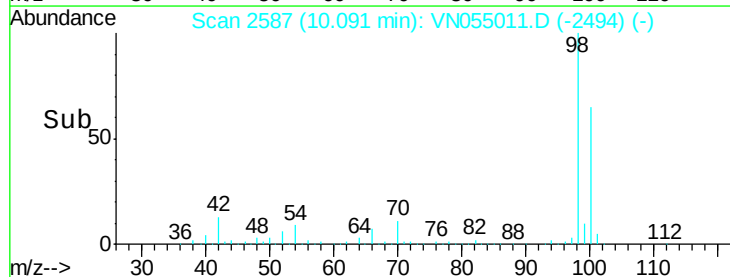
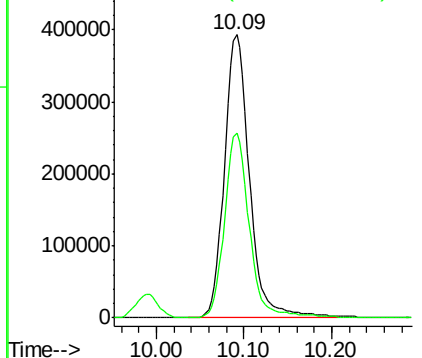
Tgt Ion	98	Resp	783461
Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.1	76.7

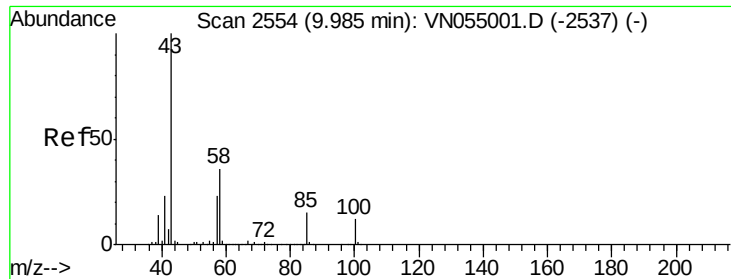


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 110.953 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion: 43 Resp: 517575

Ion Ratio Lower Upper

43 100

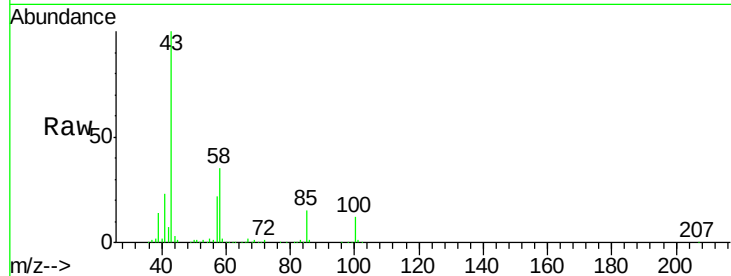
58 34.7 29.0 43.4

Manual Integrations

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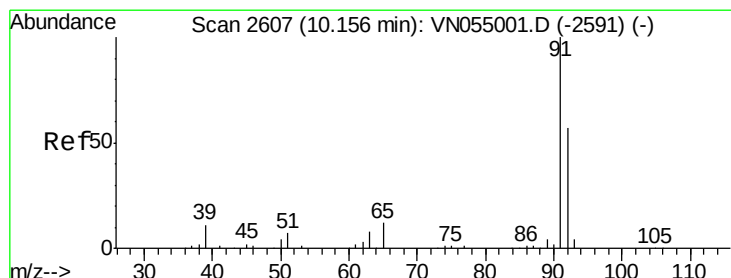
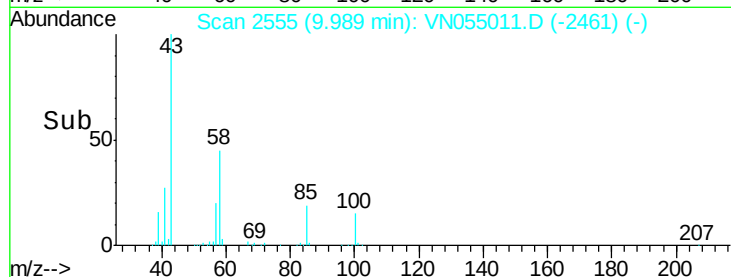
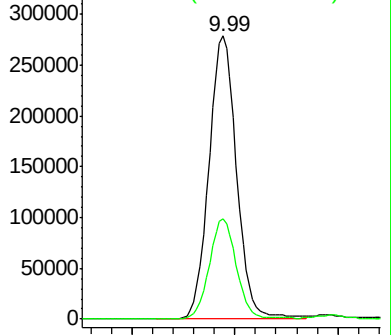
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.125 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055011.D

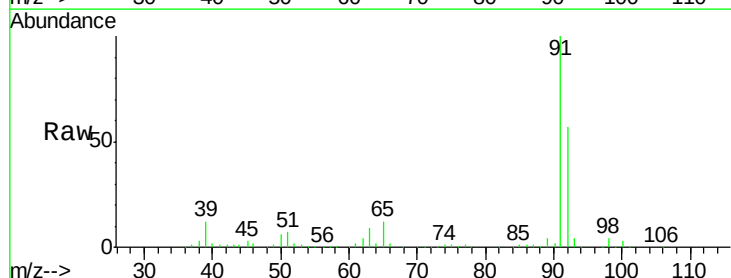
Acq: 12 Apr 2019 20:39

Tgt Ion: 92 Resp: 223332

Ion Ratio Lower Upper

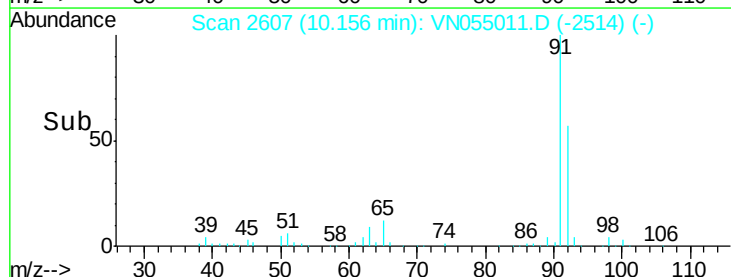
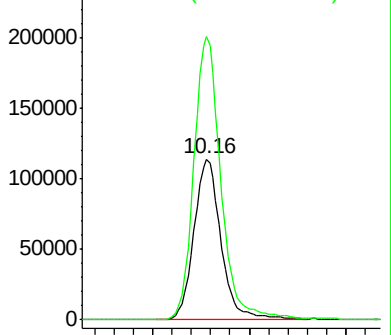
92 100

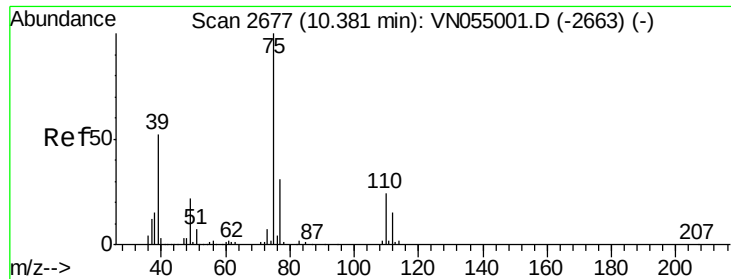
91 176.2 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





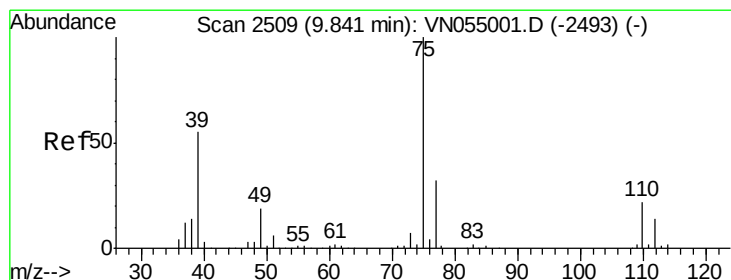
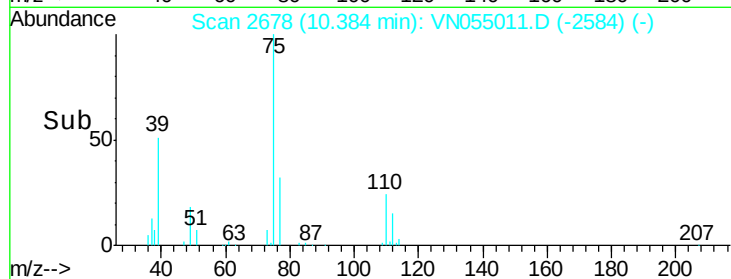
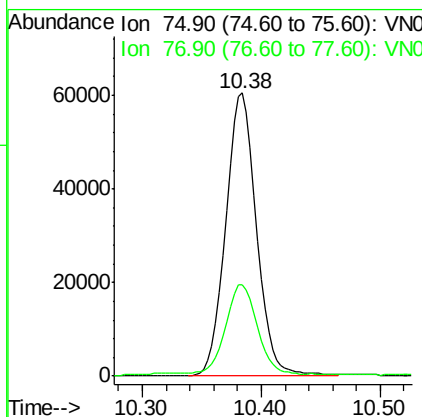
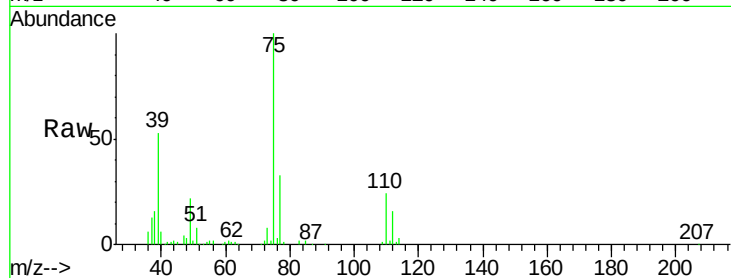
#53
t-1,3-Dichloropropene
Concen: 19.409 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampleId :
VN0413WBSD01

Tot Ion: 75 Resp: 108440
Ion Ratio Lower Upper
75 100
77 31.7 24.6 37.0

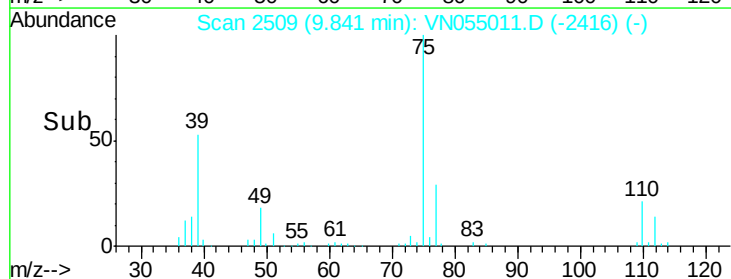
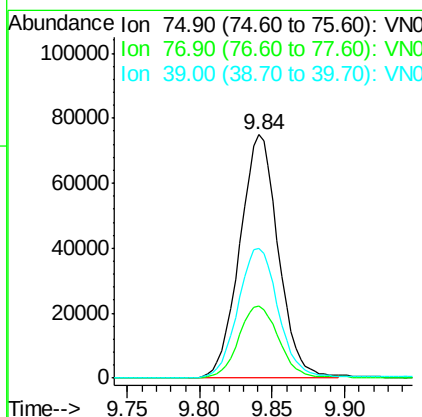
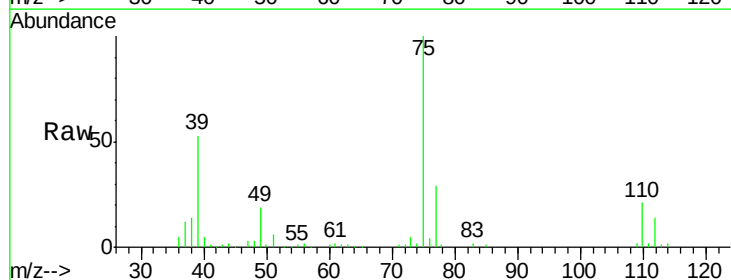
Manual Integrations
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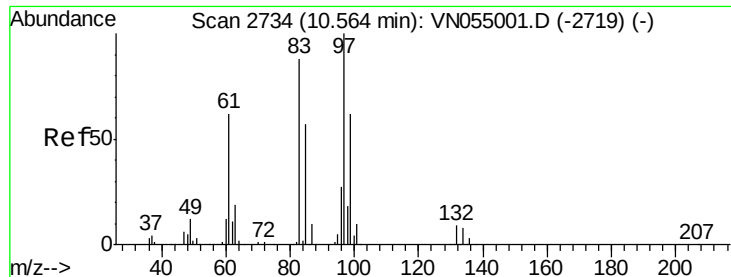
MMDadoda
4/16/2019 1:58:34 PM



#54
cis-1,3-Dichloropropene
Concen: 20.153 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion: 75 Resp: 138702
Ion Ratio Lower Upper
75 100
77 29.4 25.8 38.6
39 53.1 43.8 65.8





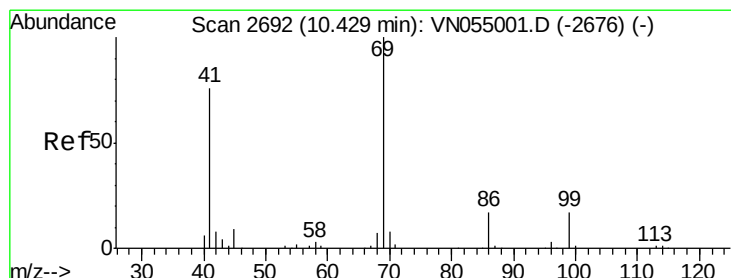
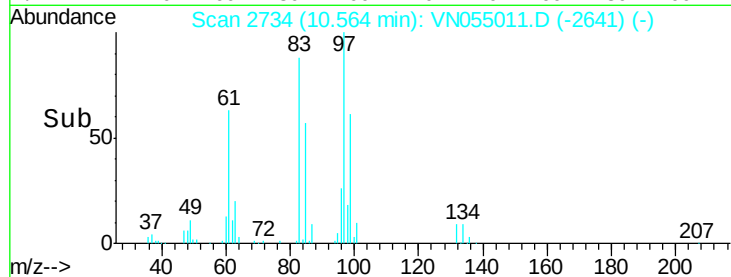
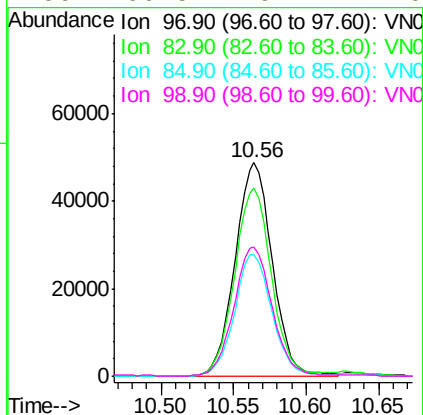
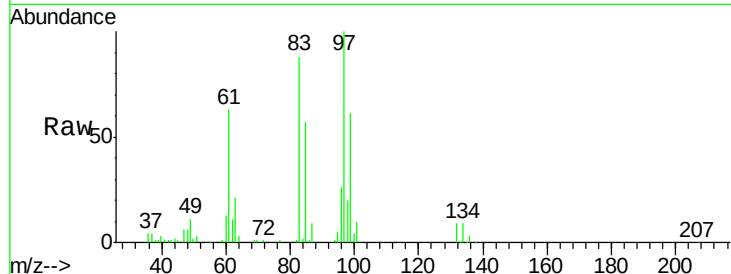
#55
 1,1,2-Trichloroethane
 Concen: 21.058 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.7	70.5	105.7
85	57.1	45.5	68.3
99	60.5	49.4	74.0

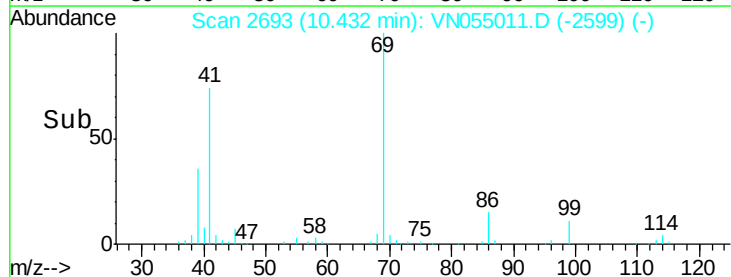
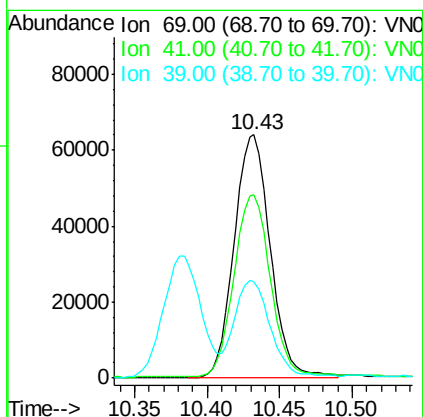
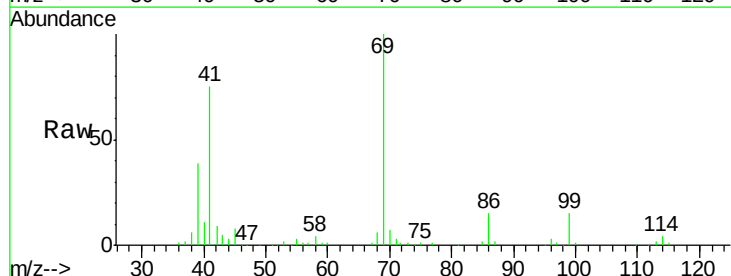
Manual Integrations
 APPROVED

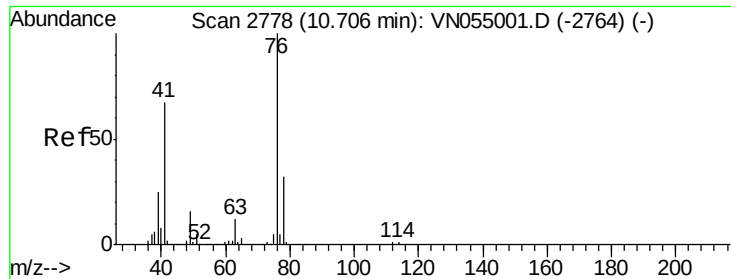
MMDadoda
 4/16/2019 1:58:34 PM



#56
 Ethyl methacrylate
 Concen: 20.945 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
69	100		
41	76.1	61.4	92.0
39	38.3	30.8	46.2





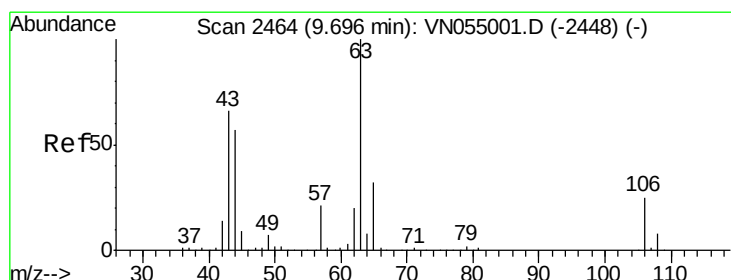
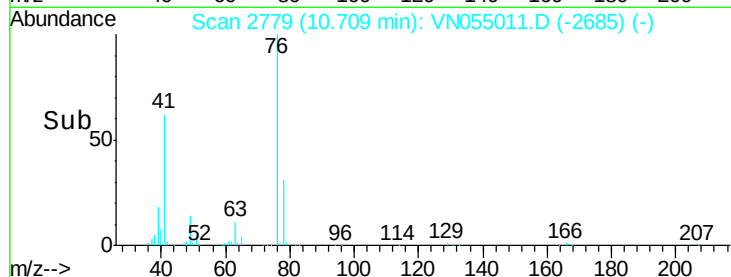
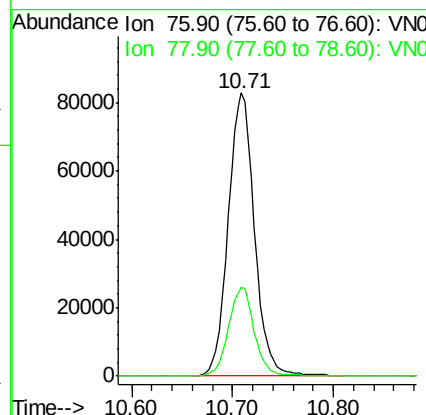
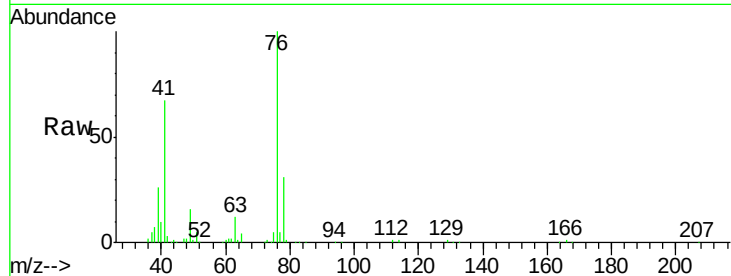
#57
 1,3-Dichloropropane
 Concen: 21.162 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.1	25.6	38.4

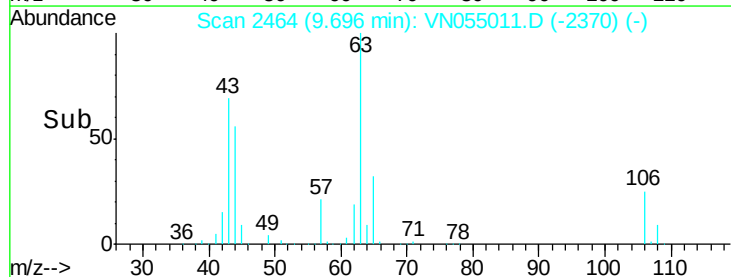
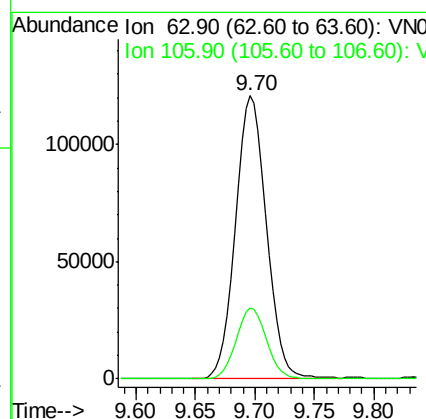
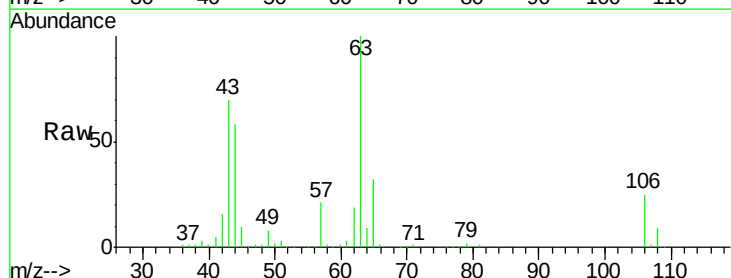
Manual Integrations
 APPROVED

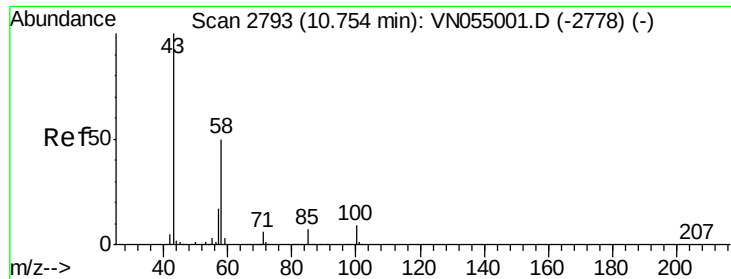
MMDadoda
 4/16/2019 1:58:34 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 102.831 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.6	20.0	30.0





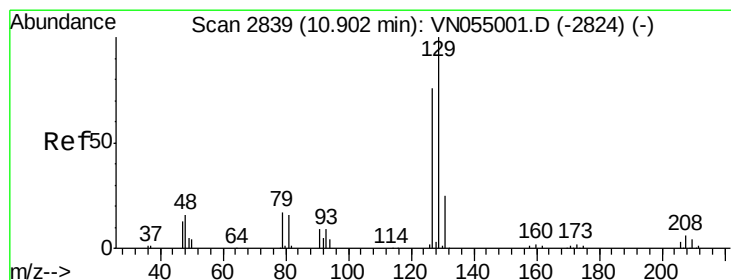
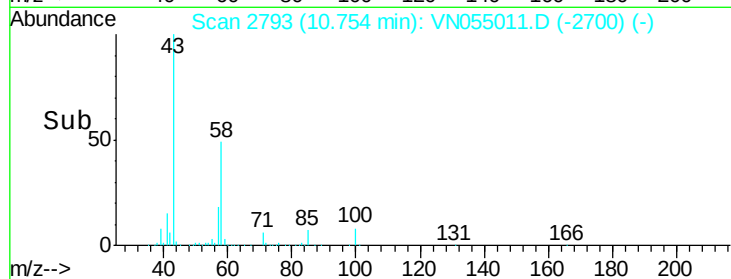
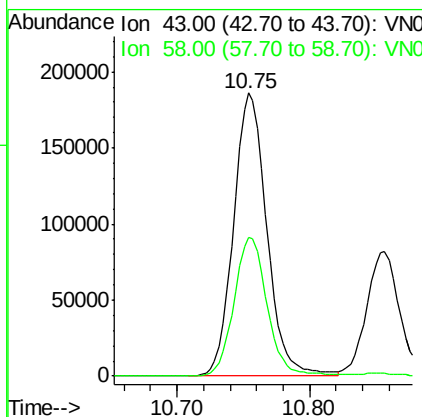
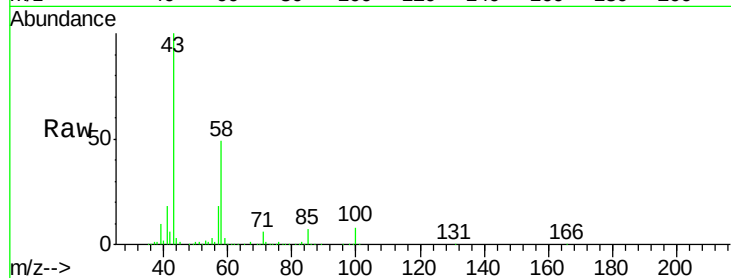
#59
2-Hexanone
Concen: 110.589 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampleId :
VN0413WBSD01

Tot Ion: 43 Resp: 322370
Ion Ratio Lower Upper
43 100
58 49.2 25.1 75.2

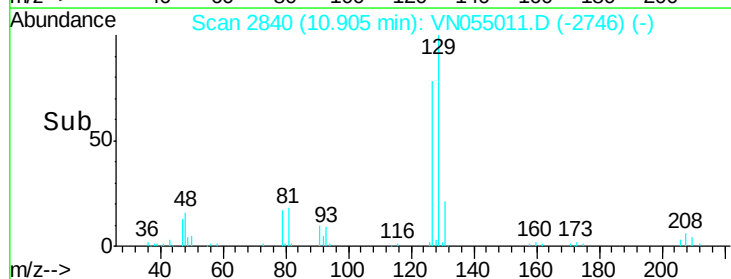
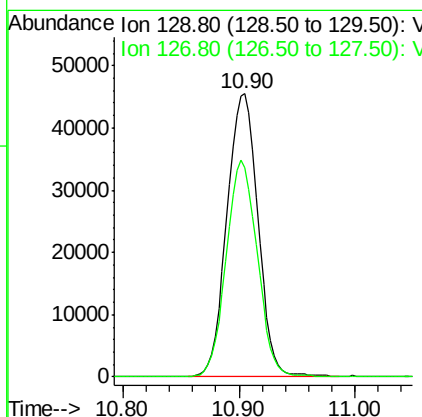
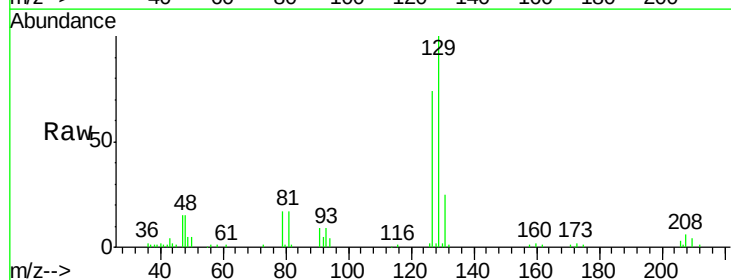
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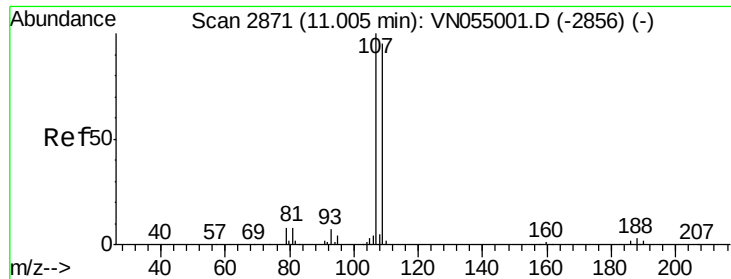
MMDadoda
4/16/2019 1:58:34 PM



#60
Dibromochloromethane
Concen: 20.471 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion: 129 Resp: 84234
Ion Ratio Lower Upper
129 100
127 76.6 38.2 114.6





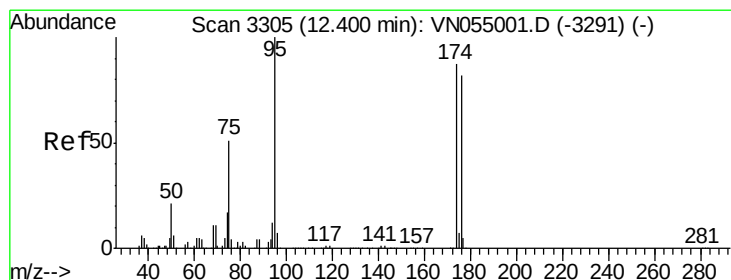
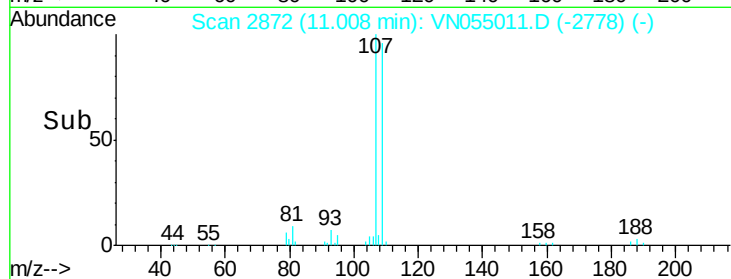
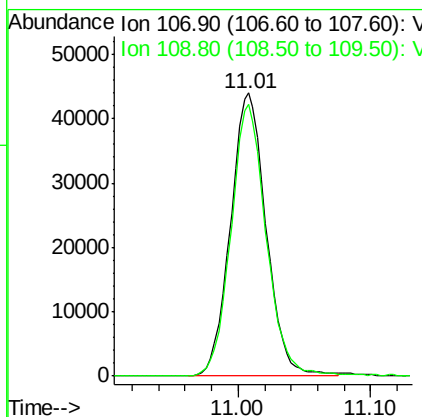
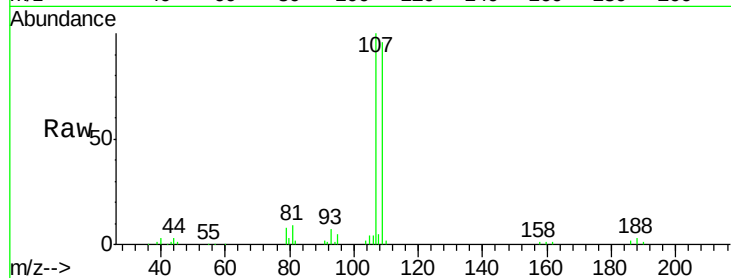
#61
 1,2-Dibromoethane
 Concen: 20.689 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Tot Ion: 107 Resp: 81885
 Ion Ratio Lower Upper
 107 100
 109 94.9 76.5 114.7

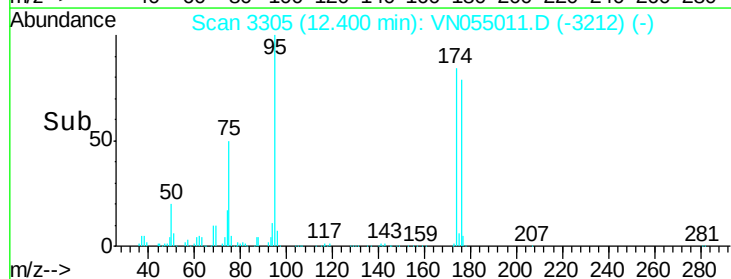
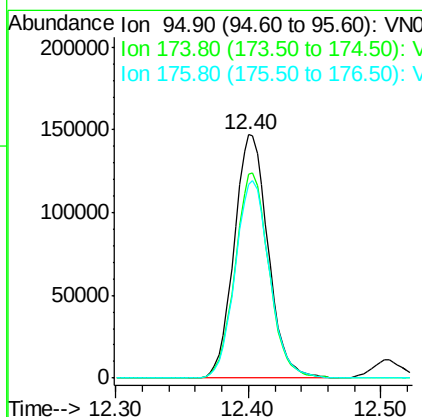
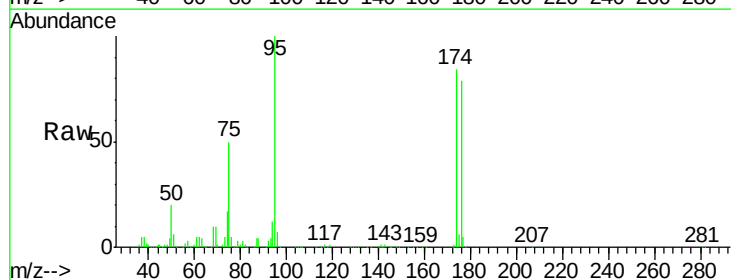
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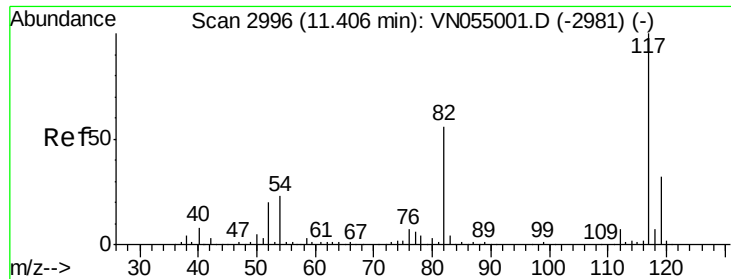
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 4/16/2019 1:58:34 PM



#62
 4-Bromofluorobenzene
 Concen: 49.470 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion: 95 Resp: 262005
 Ion Ratio Lower Upper
 95 100
 174 83.9 0.0 174.4
 176 82.0 0.0 166.8





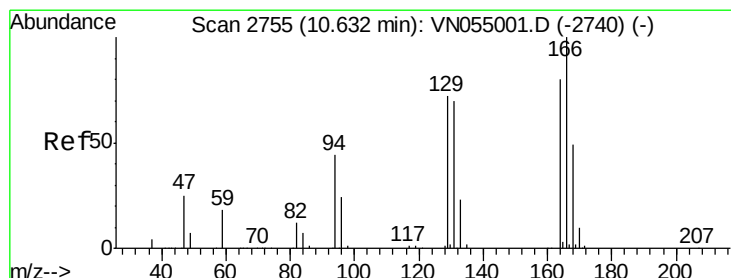
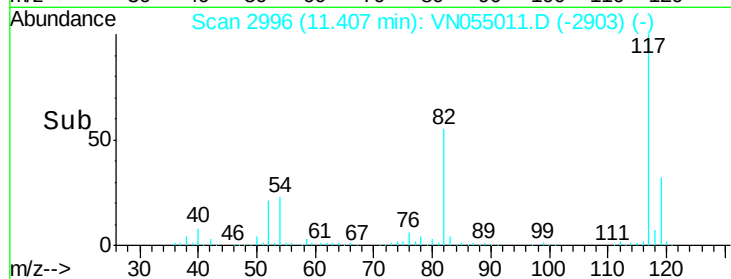
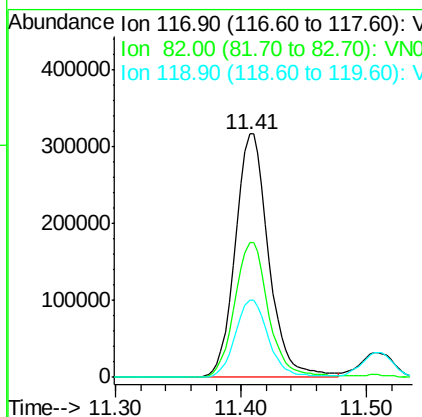
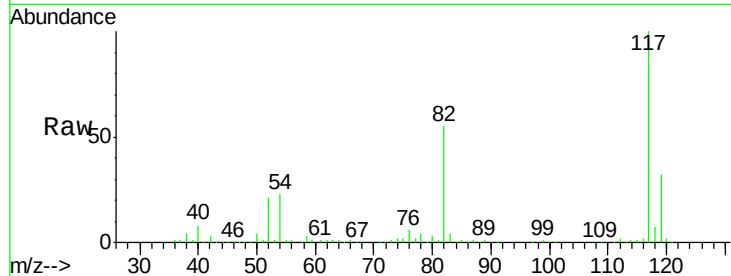
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampleId :
VN0413WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.6	66.8
119	32.0	25.5	38.3

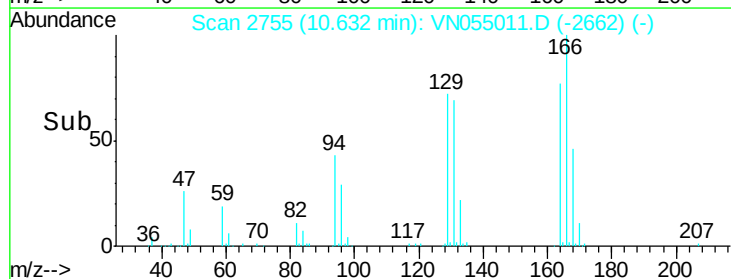
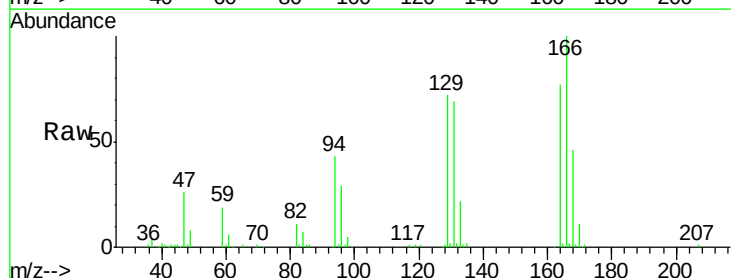
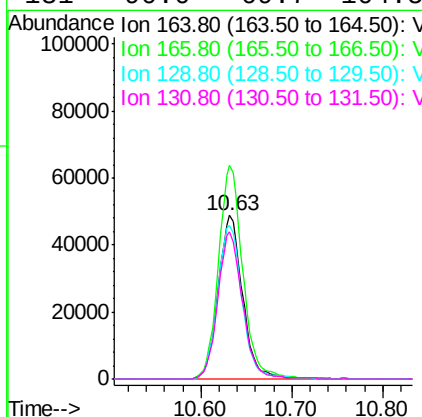
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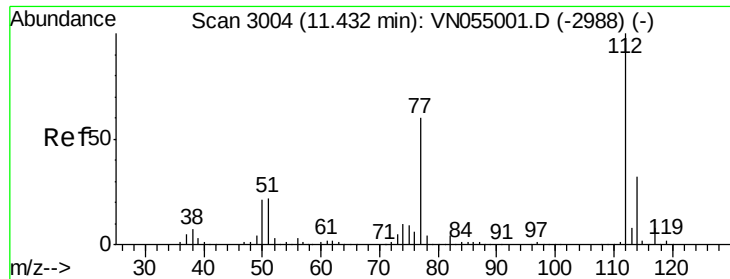
MMDadoda
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#64
Tetrachloroethene
Concen: 19.870 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.6	100.0	150.0
129	94.2	72.0	108.0
131	90.0	69.7	104.5





#65

Chlorobenzene

Concen: 20.506 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampled :

VN0413WBSD01

Tot Ion:112 Resp: 231763

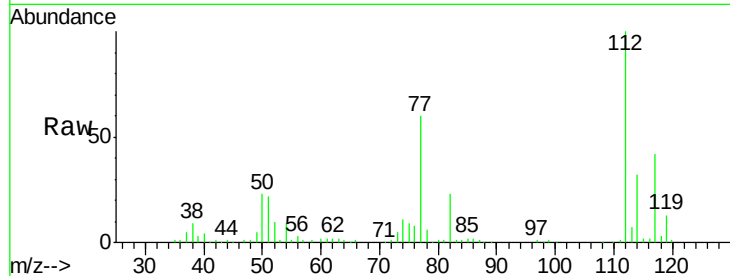
Ion Ratio Lower Upper

112 100

114 32.0 25.3 37.9

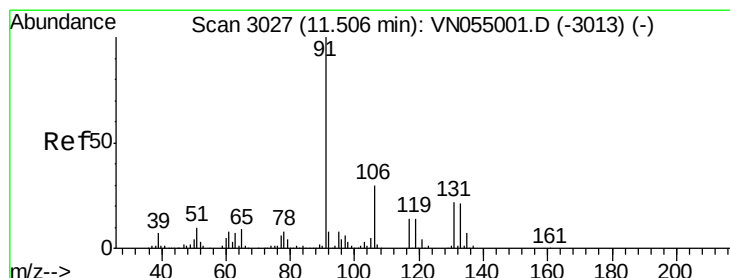
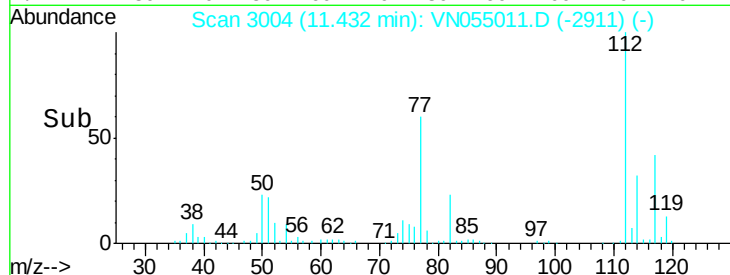
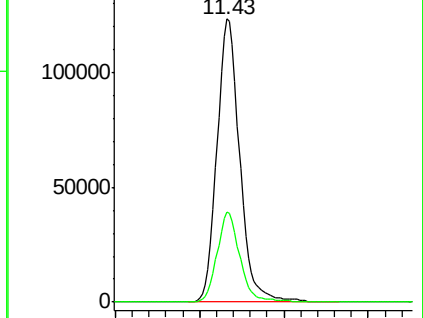
Manual Integrations
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 20.269 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

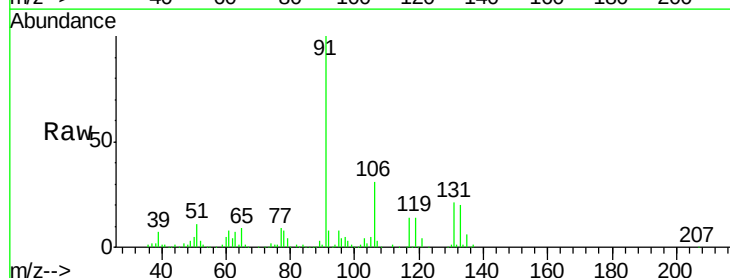
Tgt Ion:131 Resp: 84424

Ion Ratio Lower Upper

131 100

133 96.6 47.8 143.3

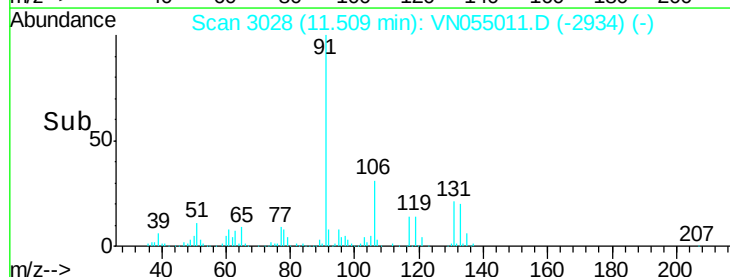
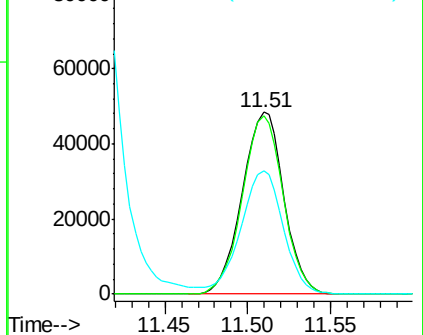
119 69.2 33.6 100.6

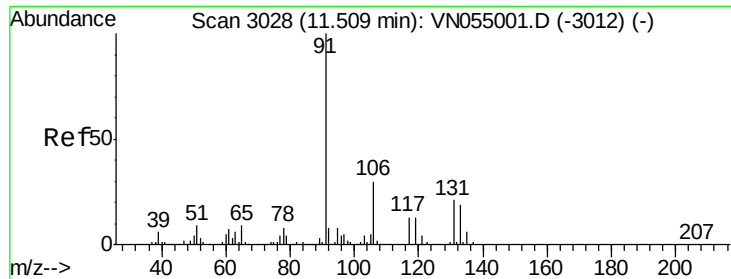


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





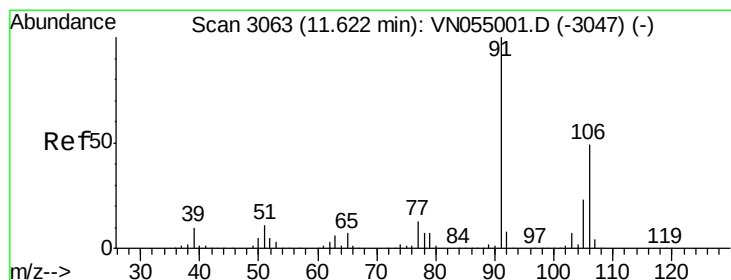
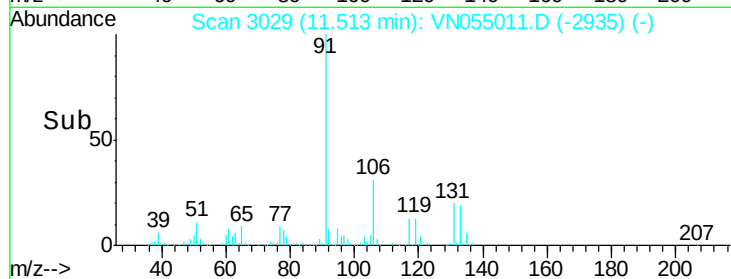
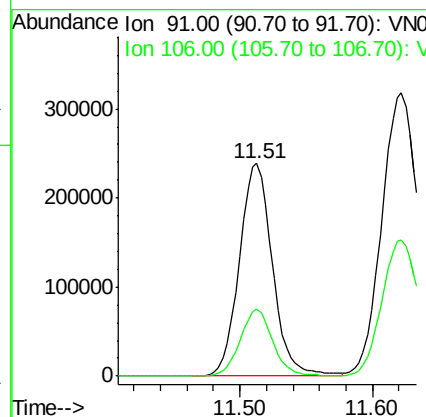
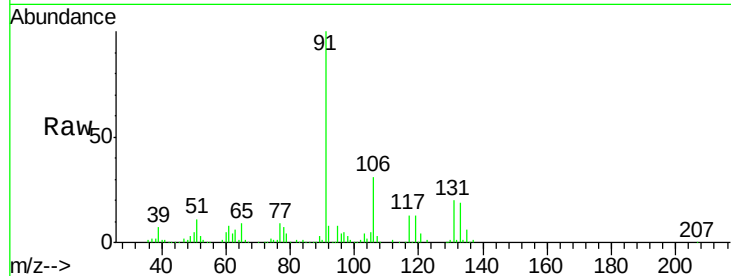
#67
Ethyl Benzene
Concen: 19.971 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampled :
VN0413WBSD01

Tot Ion: 91 Resp: 414620
Ion Ratio Lower Upper
91 100
106 31.4 24.3 36.5

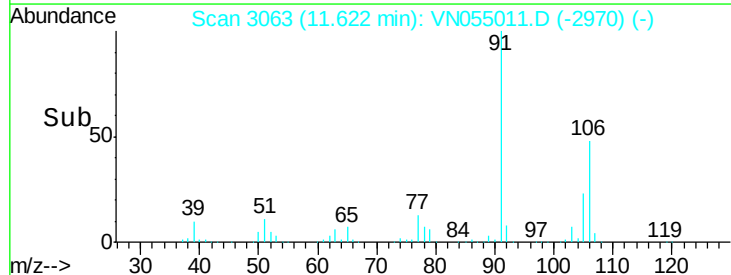
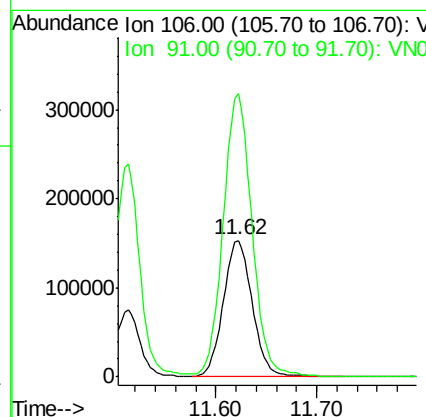
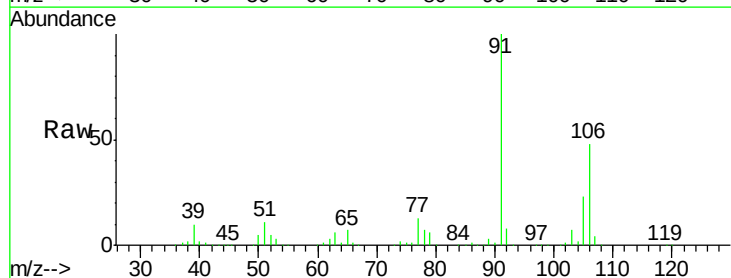
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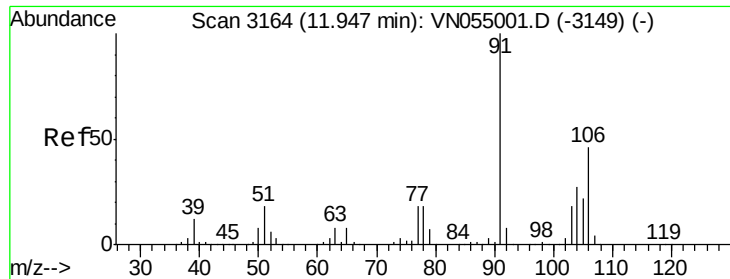
MMDadoda
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#68
m/p-Xylenes
Concen: 40.639 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion: 106 Resp: 308675
Ion Ratio Lower Upper
106 100
91 205.9 165.9 248.9





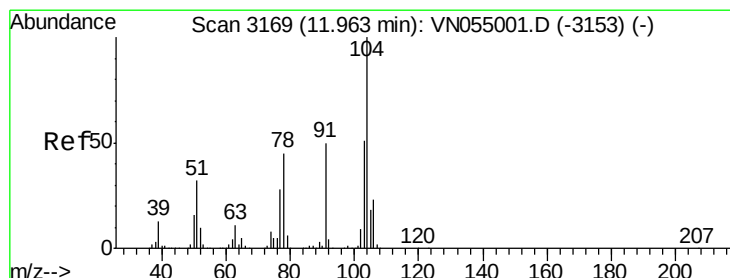
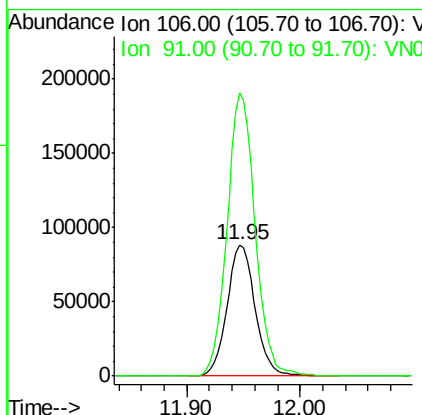
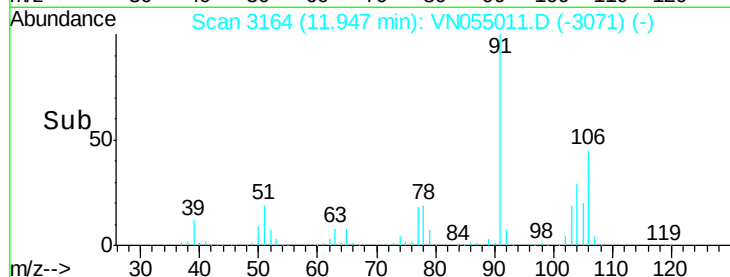
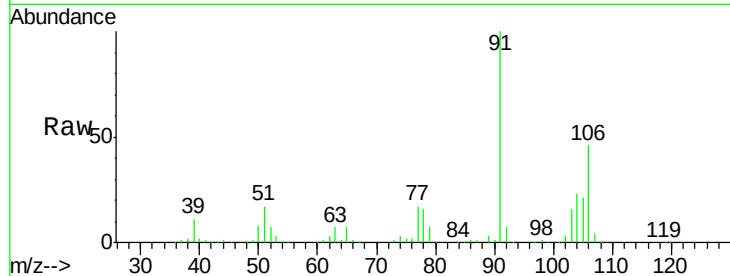
#69
o-Xylene
Concen: 20.356 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampleId :
VN0413WBSD01

Tot Ion:106 Resp: 152978
Ion Ratio Lower Upper
106 100
91 215.4 109.9 329.8

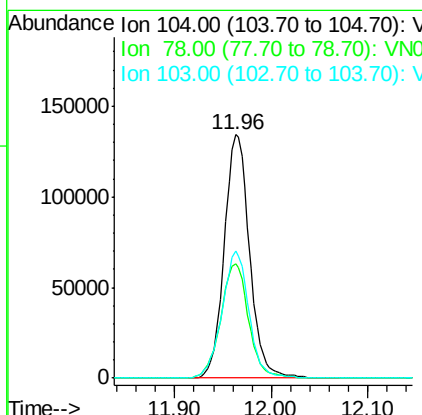
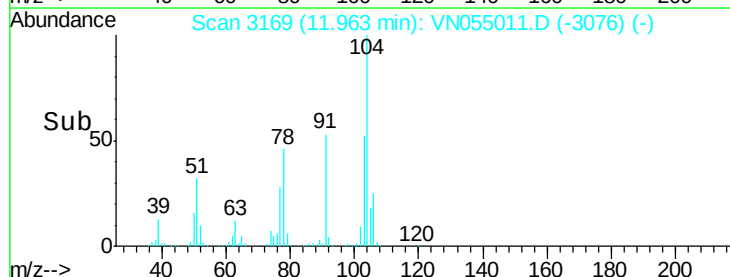
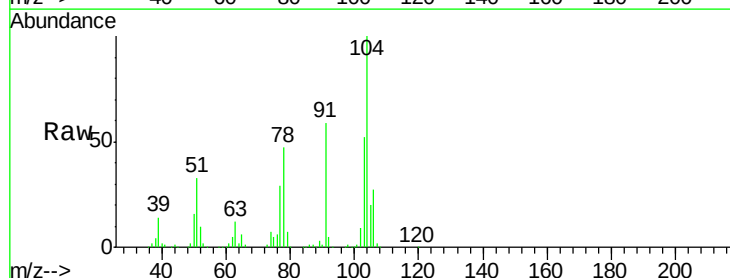
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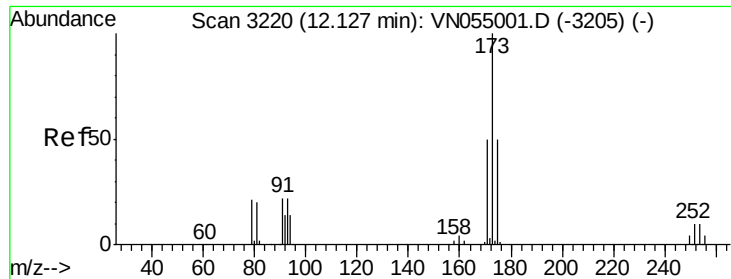
MMDadoda
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#70
Styrene
Concen: 20.484 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion:104 Resp: 244093
Ion Ratio Lower Upper
104 100
78 51.7 40.3 60.5
103 55.4 44.3 66.5





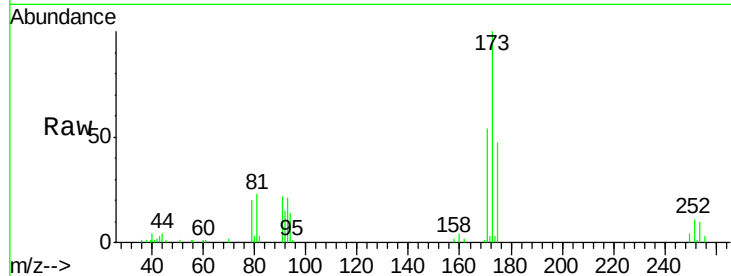
#71
Bromoform
Concen: 19.796 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Instrument :
MSVOA_N
ClientSampleId :
VN0413WBSD01

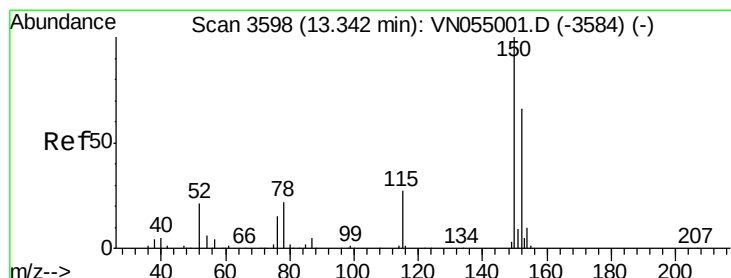
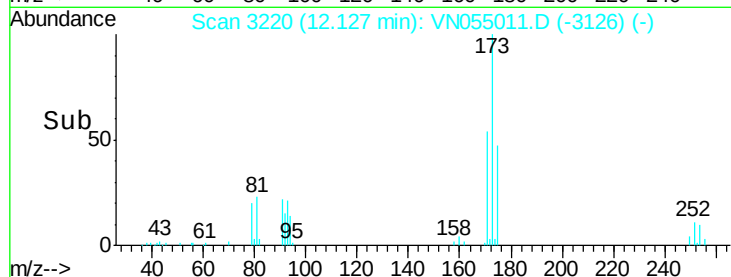
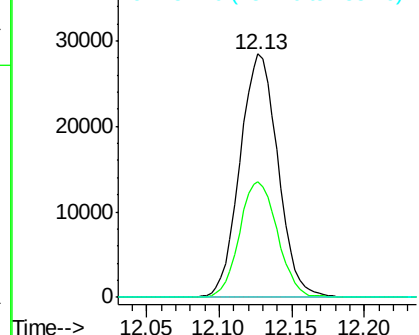
Tot Ion	Ratio	Lower	Upper
173	100		
175	47.3	24.3	73.0
254	0.0	0.1	0.1#

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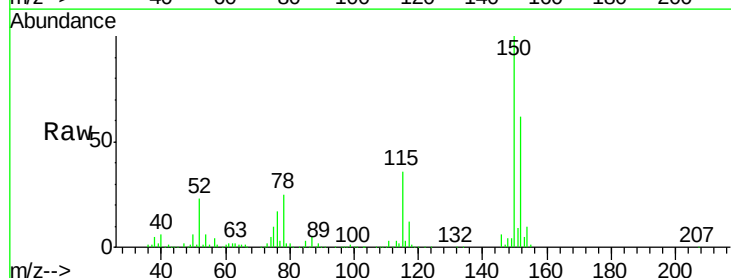


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

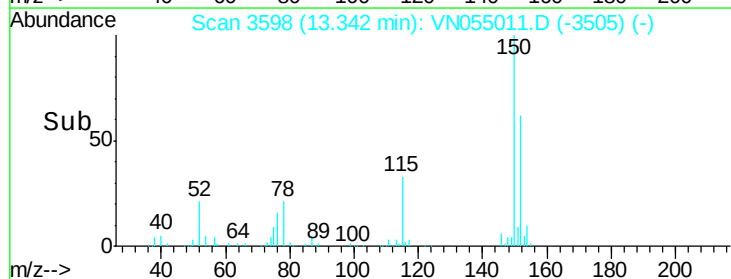
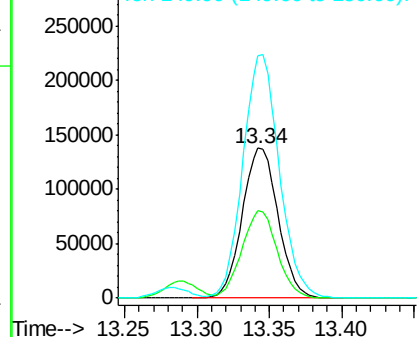


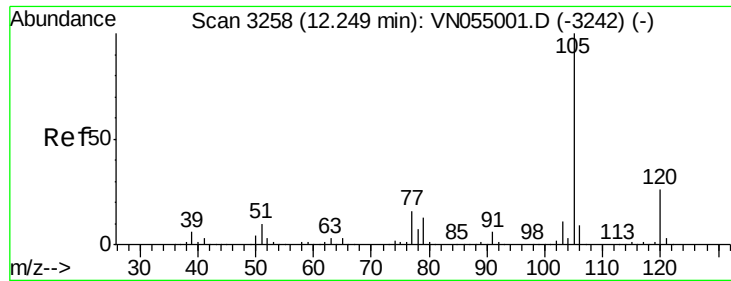
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055011.D
Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	28.5	85.6
150	165.3	0.0	347.2



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: 19.901 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion:105 Resp: 400854

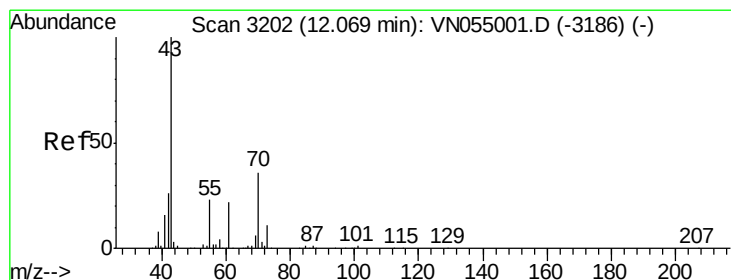
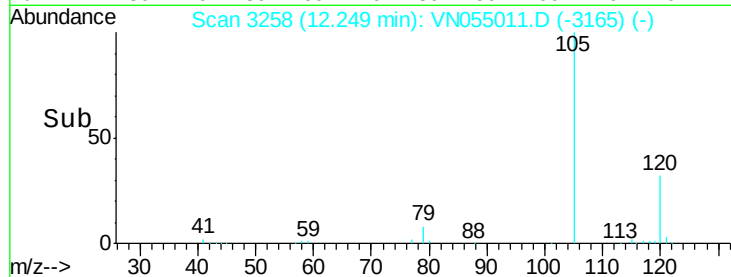
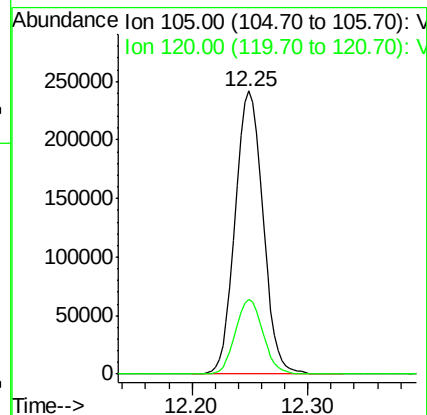
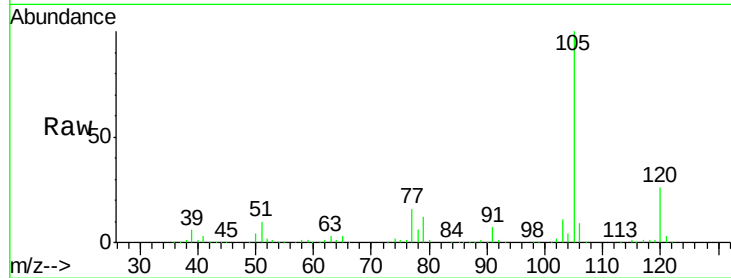
Ion Ratio Lower Upper

105 100

120 26.1 13.3 39.9

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#74

N-ethyl acetate

Concen: 20.833 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion: 43 Resp: 126478

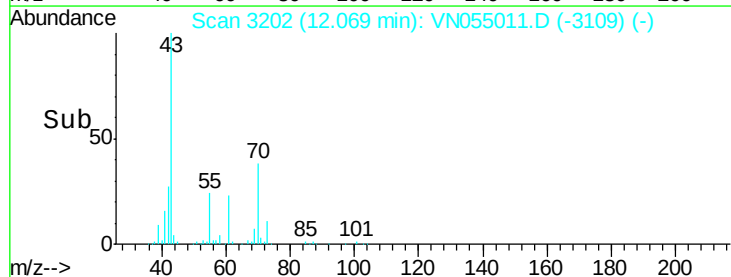
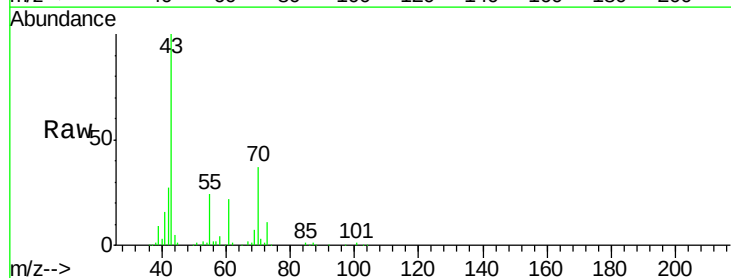
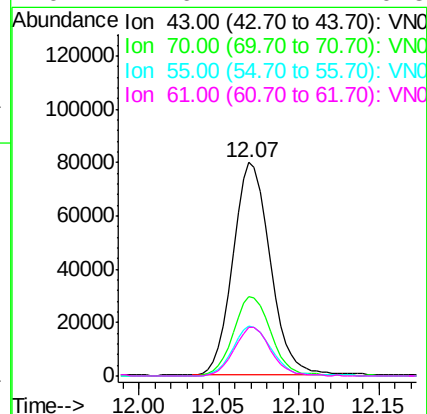
Ion Ratio Lower Upper

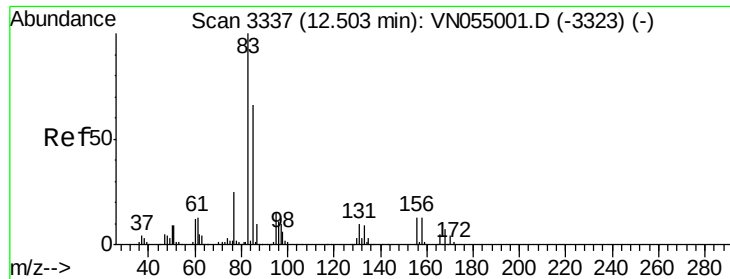
43 100

70 37.9 29.4 44.0

55 24.6 19.0 28.4

61 22.6 17.7 26.5





#75

1,1,2,2-Tetrachloroethane

Concen: 20.795 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

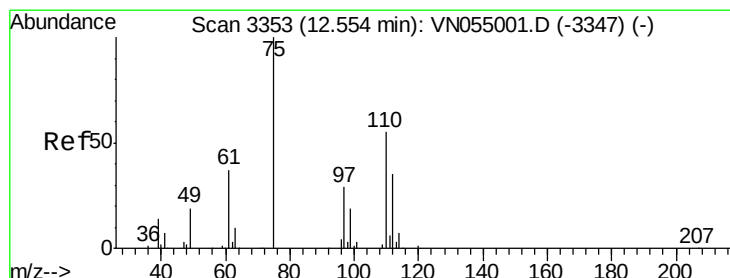
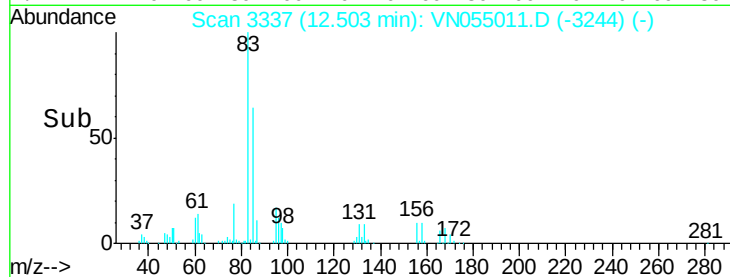
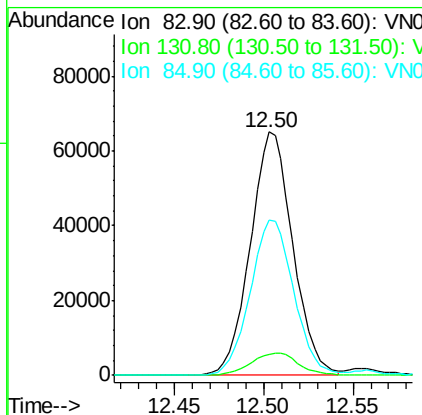
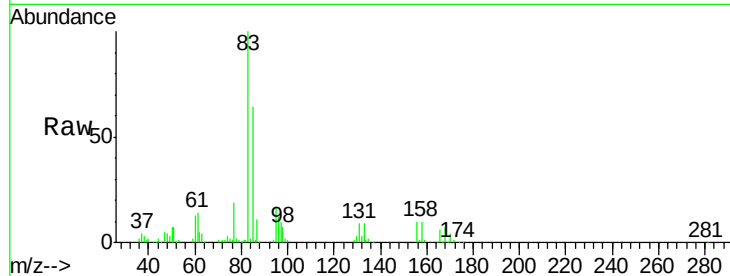
ClientSampleId :

VN0413WBSD01

Tot Ion:	83	Resp:	108444
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.0	15.0
85	65.3	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.258 ug/l m

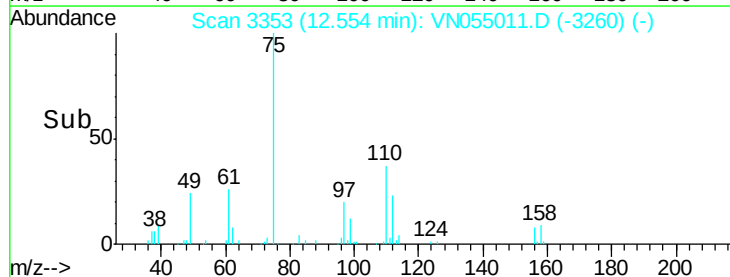
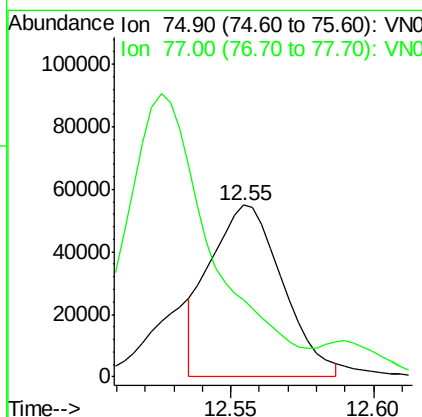
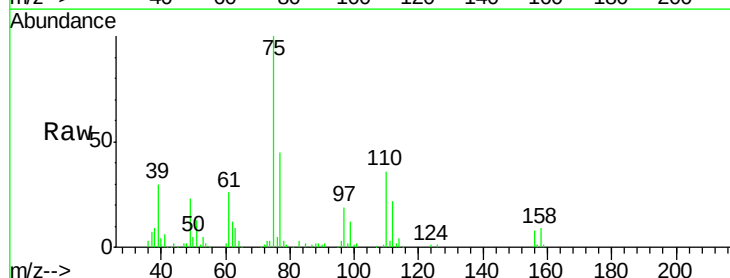
RT: 12.55 min Scan# 3353

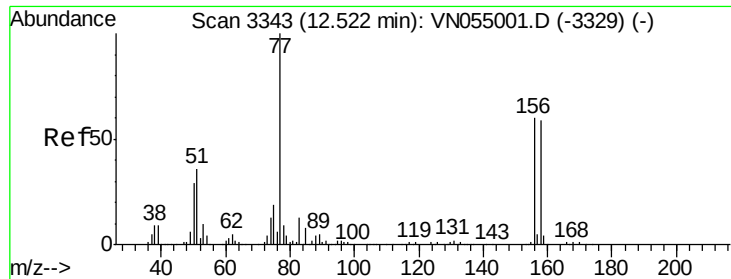
Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	75	Resp:	97008
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.283 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

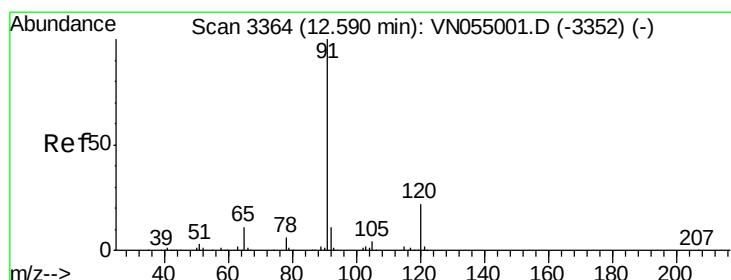
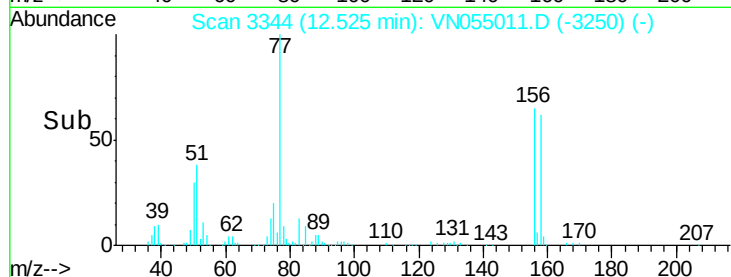
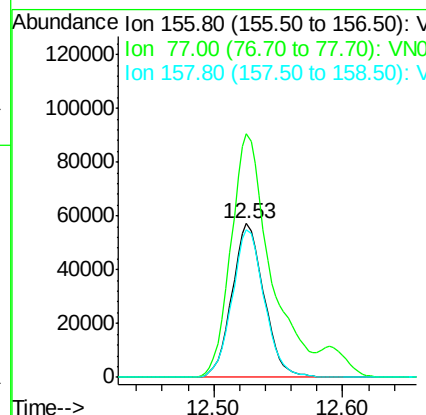
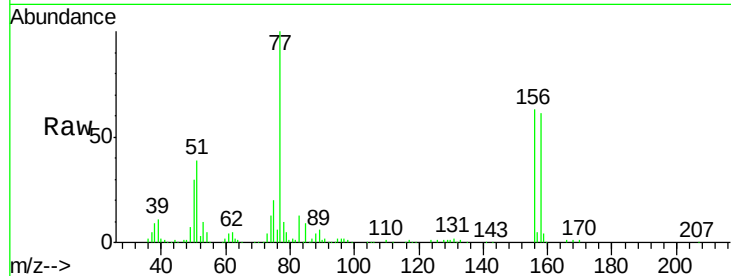
ClientSampleId :

VN0413WBSD01

Tot Ion:	156	Resp:	98529
Ion Ratio	Lower	Upper	
156	100		
77	193.5	97.2	291.5
158	96.7	48.6	145.9

Manual Integrations
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#78

n-propylbenzene

Concen: 20.010 ug/l

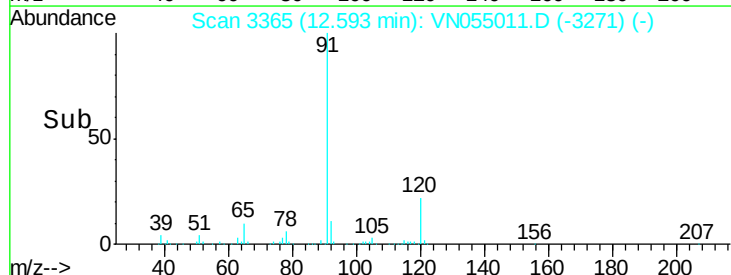
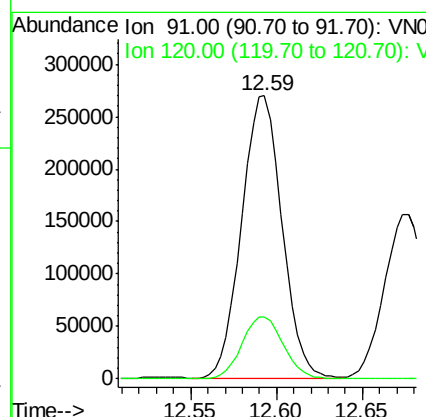
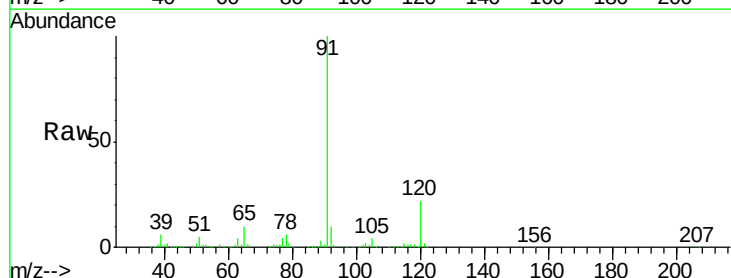
RT: 12.59 min Scan# 3365

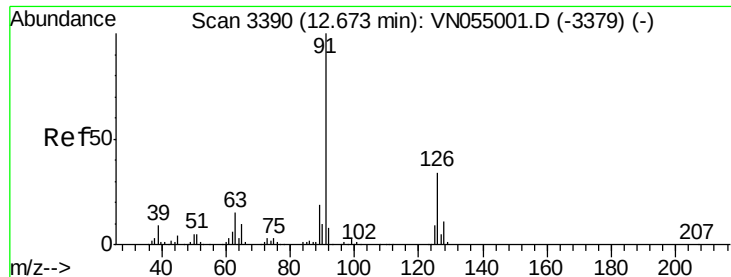
Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	91	Resp:	439109
Ion Ratio	Lower	Upper	
91	100		
120	22.7	11.2	33.5





#79

2-Chlorotoluene

Concen: 19.917 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampled :

VN0413WBSD01

Tot Ion: 91 Resp: 270009

Ion Ratio Lower Upper

91 100

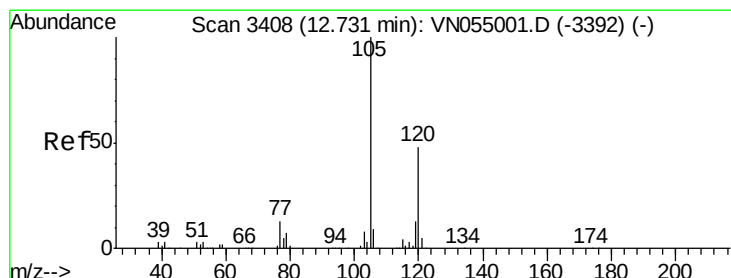
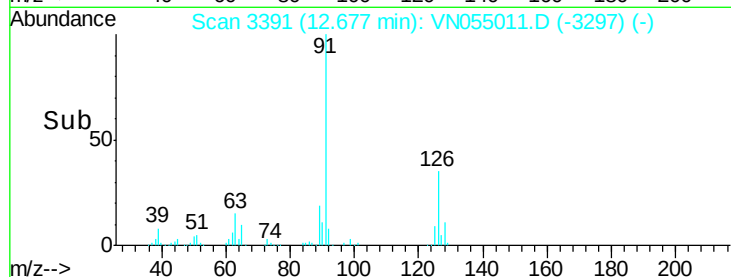
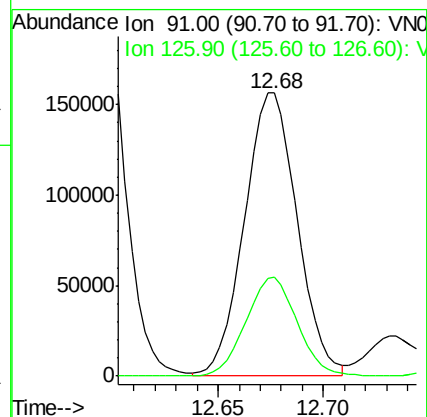
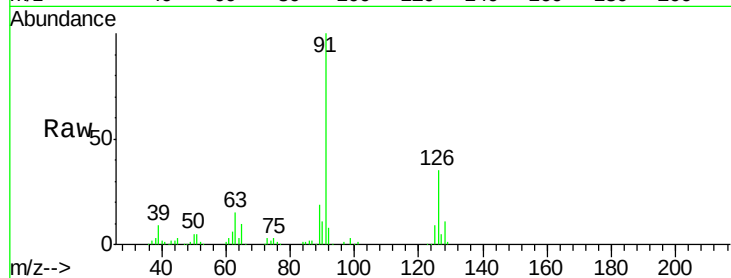
126 34.4 17.1 51.2

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 20.095 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055011.D

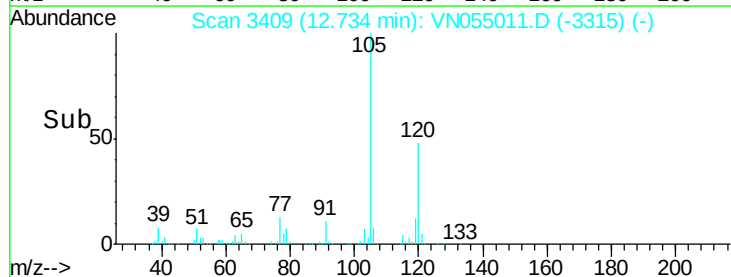
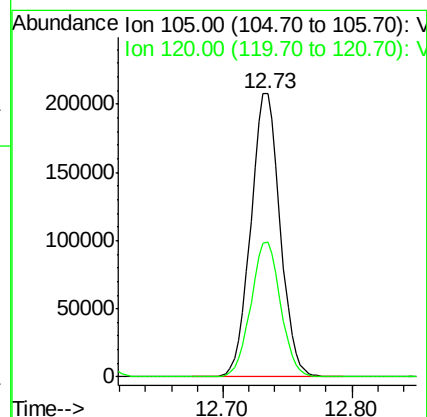
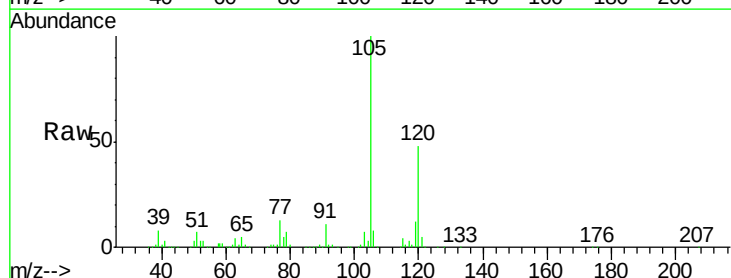
Acq: 12 Apr 2019 20:39

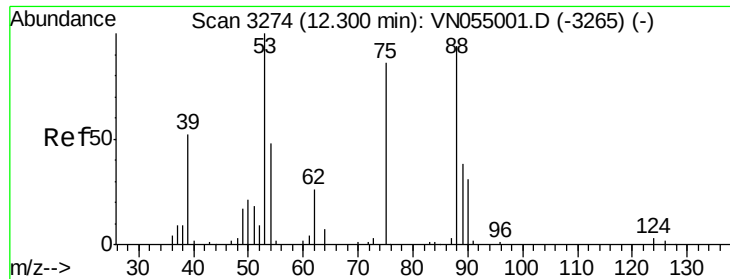
Tgt Ion:105 Resp: 329491

Ion Ratio Lower Upper

105 100

120 48.3 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 20.020 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampleId :

VN0413WBSD01

Tot Ion: 75 Resp: 21140

Ion Ratio Lower Upper

75 100

53 128.6 96.3 144.5

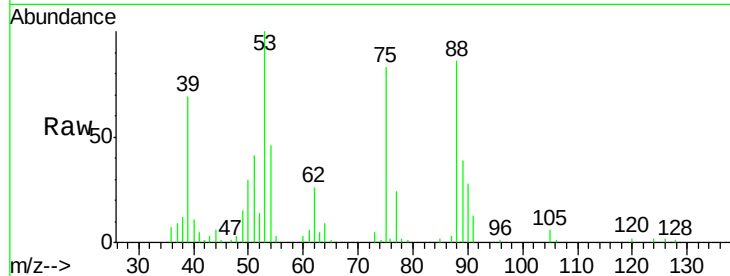
89 43.1 38.6 57.8

Manual Integrations

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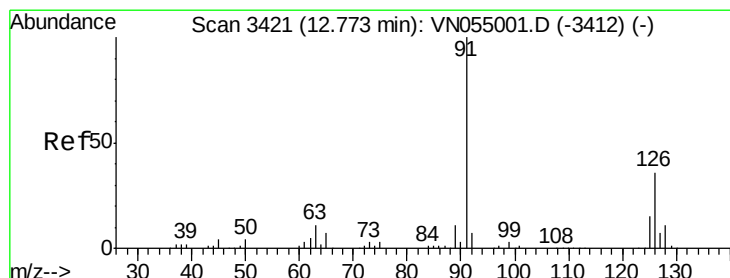
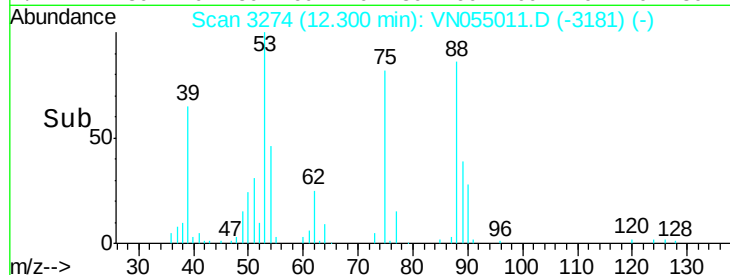
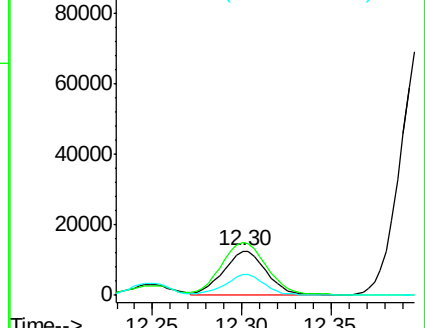
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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 19.461 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN055011.D

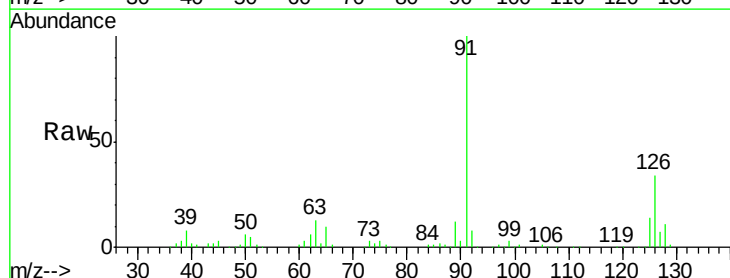
Acq: 12 Apr 2019 20:39

Tgt Ion: 91 Resp: 255148

Ion Ratio Lower Upper

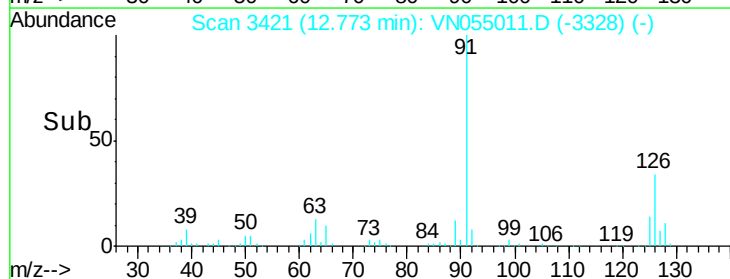
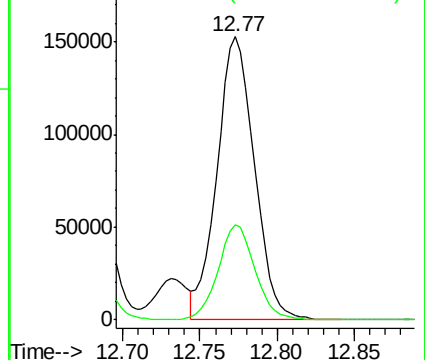
91 100

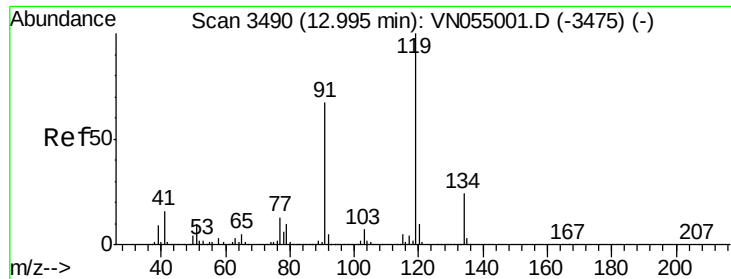
126 33.2 16.4 49.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 20.581 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

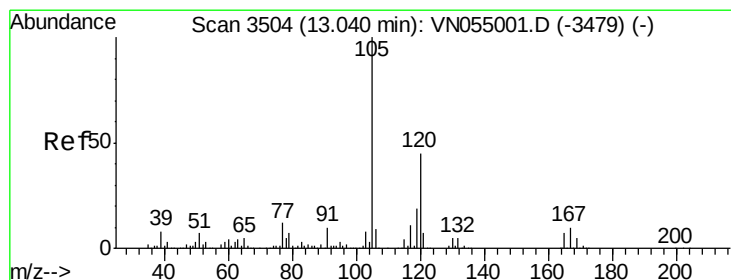
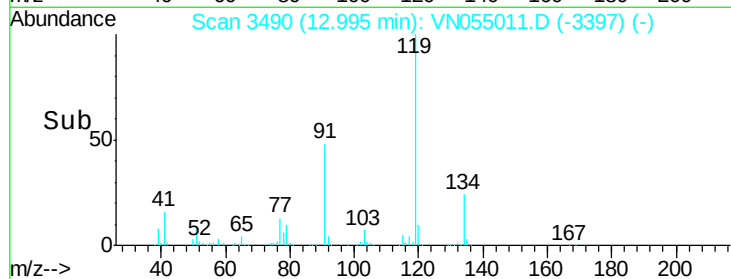
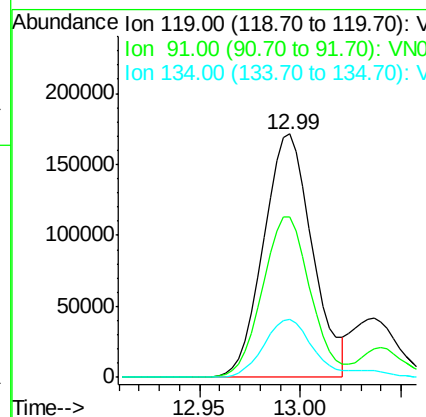
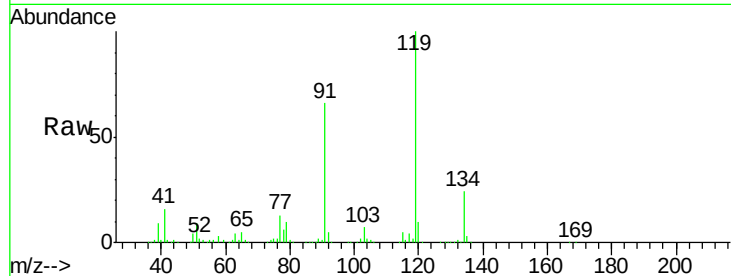
ClientSampleId :

VN0413WBSD01

Tot Ion:	119	Resp:	289100
Ion Ratio	Lower	Upper	
119	100		
91	65.1	33.3	99.8
134	26.1	12.3	36.9

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 20.406 ug/l

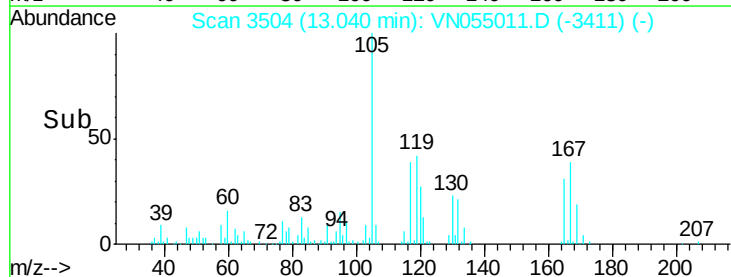
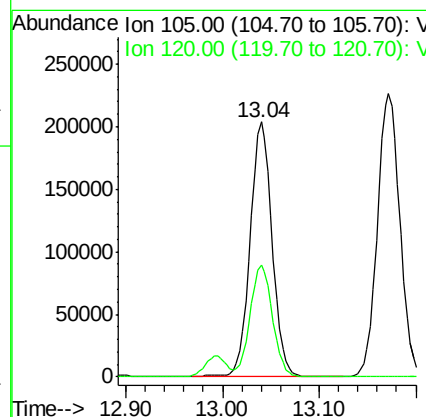
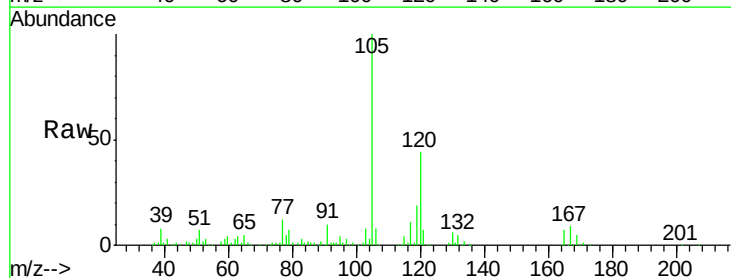
RT: 13.04 min Scan# 3504

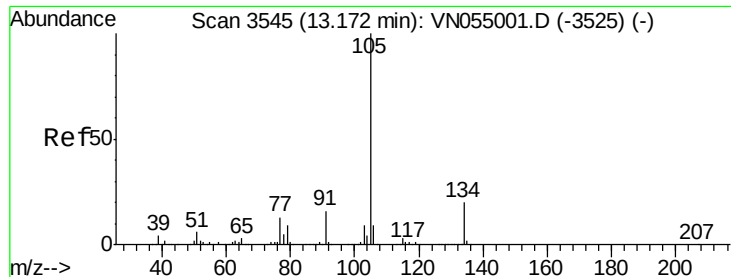
Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	105	Resp:	320843
Ion Ratio	Lower	Upper	
105	100		
120	44.9	22.4	67.3





#85

sec-Butylbenzene

Concen: 20.451 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

ClientSampled :

VN0413WBSD01

Tot Ion:105 Resp: 366790

Ion Ratio Lower Upper

105 100

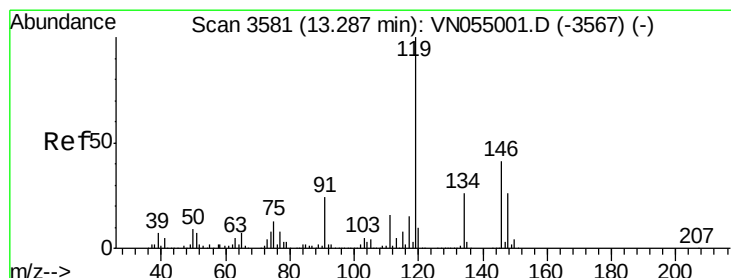
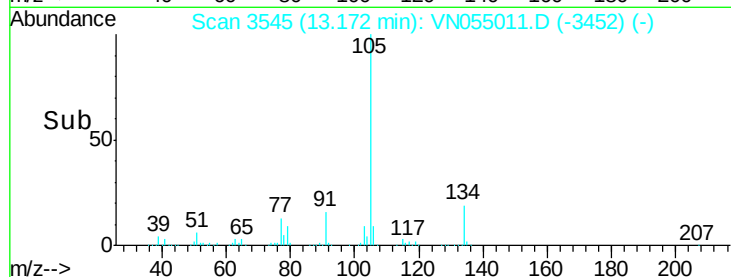
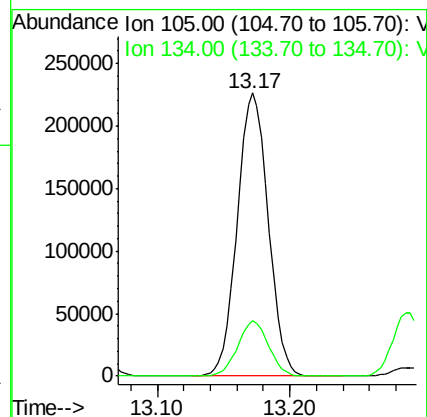
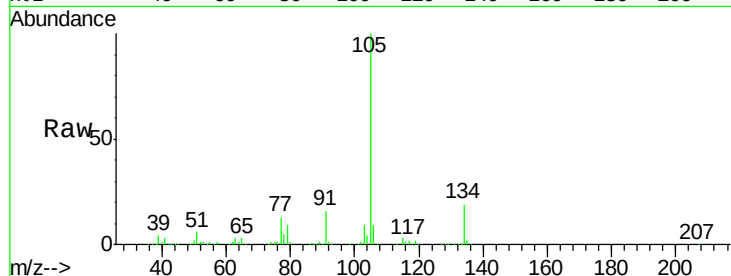
134 19.4 9.8 29.3

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 20.004 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

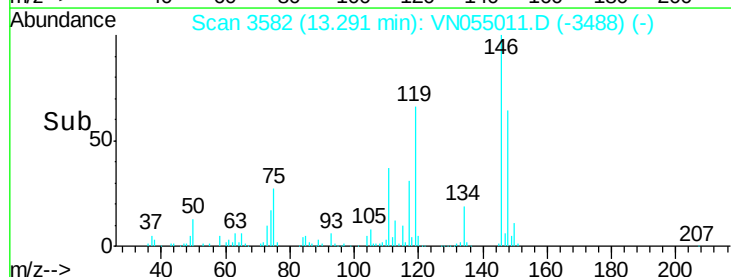
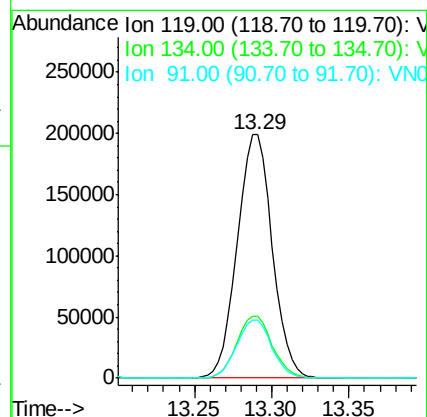
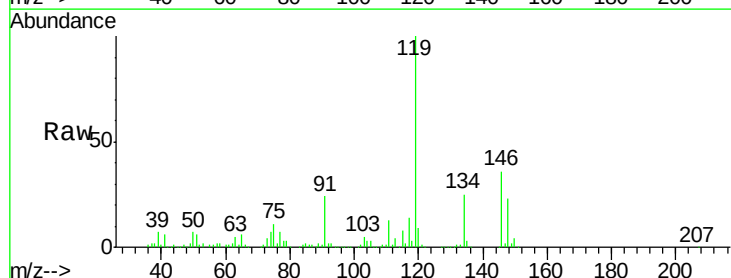
Tgt Ion:119 Resp: 312070

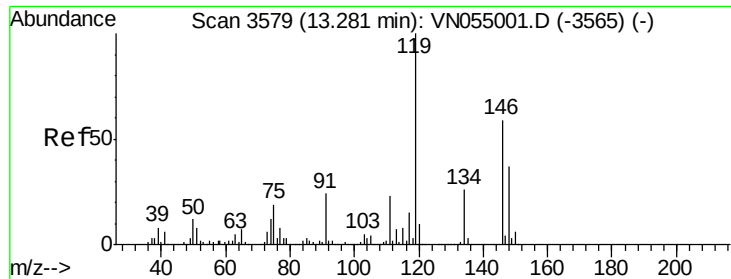
Ion Ratio Lower Upper

119 100

134 25.8 13.2 39.5

91 23.9 11.7 35.1





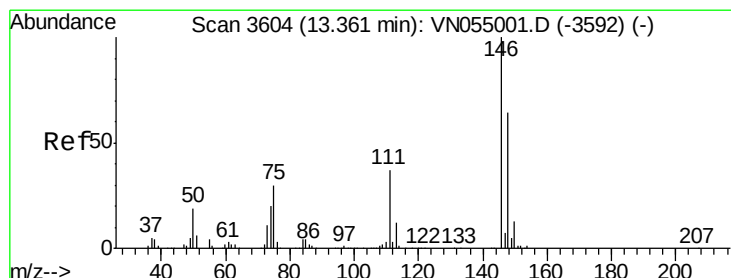
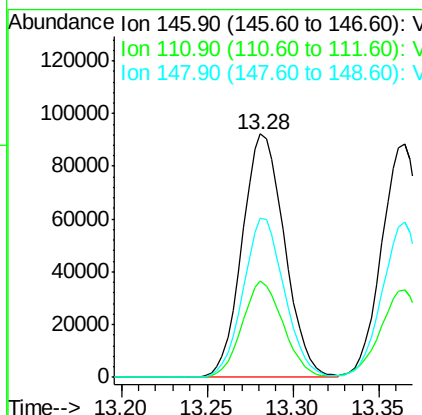
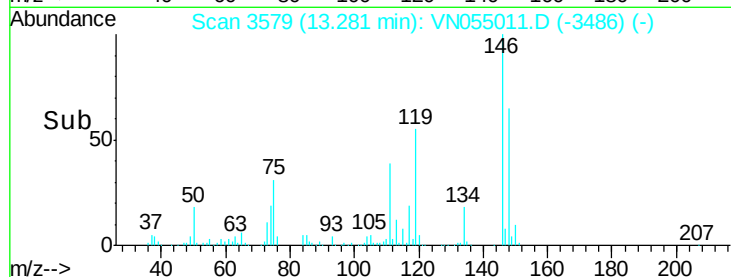
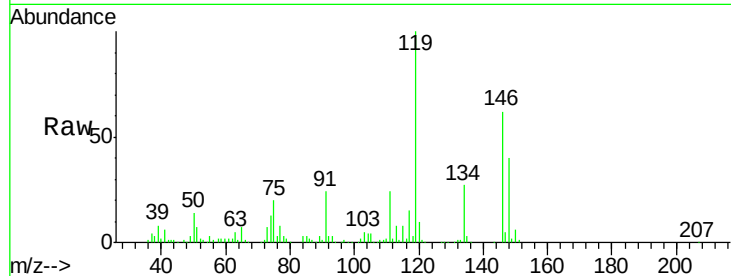
#87
 1,3-Dichlorobenzene
 Concen: 19.680 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	158358		
111	38.2	19.5	58.5	
148	63.6	31.6	94.7	

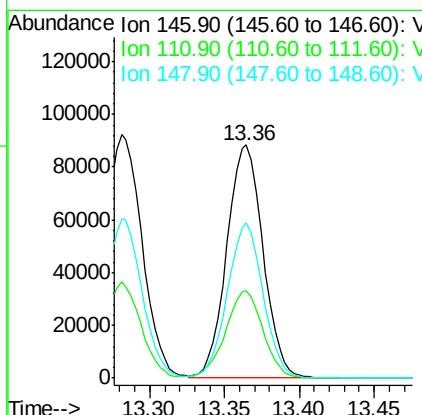
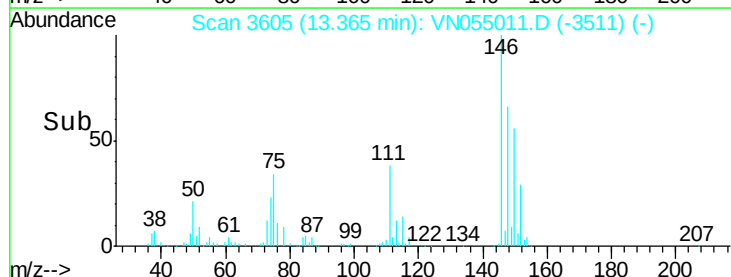
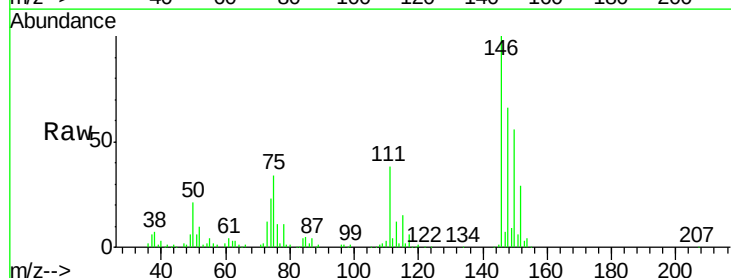
Manual Integrations
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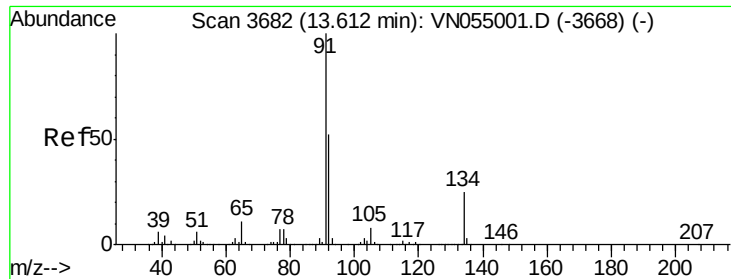
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#88
 1,4-Dichlorobenzene
 Concen: 19.387 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	149196		
111	39.0	18.8	56.4	
148	65.7	32.4	97.2	





#89

n-Butylbenzene

Concen: 19.082 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

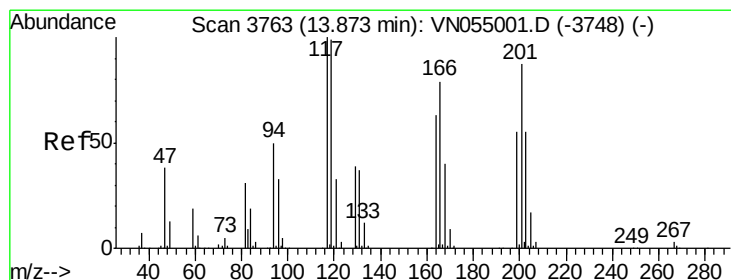
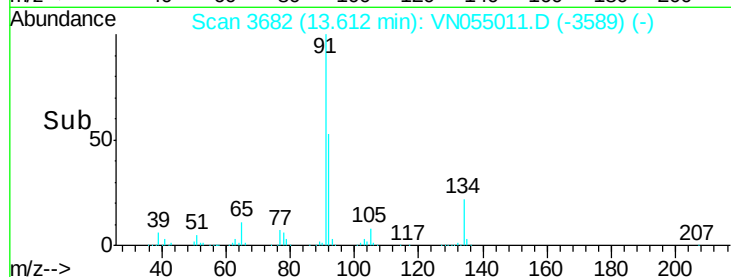
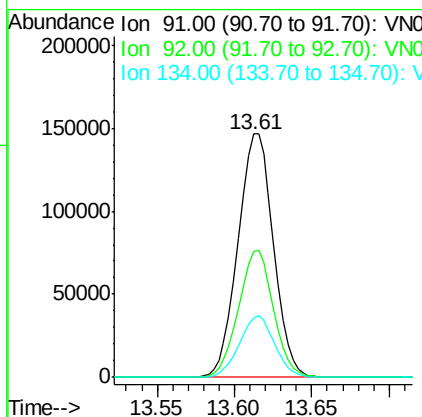
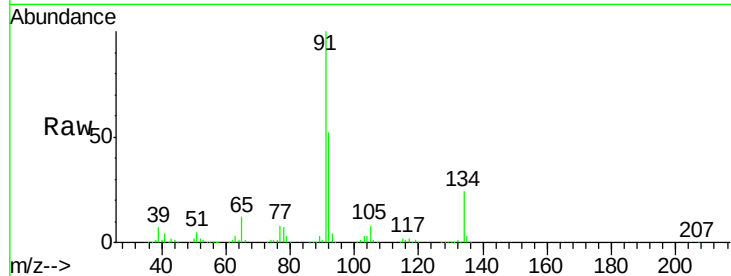
ClientSampleId :

VN0413WBSD01

Tot Ion:	91	Resp:	233799
Ion	Ratio	Lower	Upper
91	100		
92	51.3	25.9	77.7
134	24.9	12.8	38.3

Manual Integrations
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#90

Hexachloroethane

Concen: 18.688 ug/l

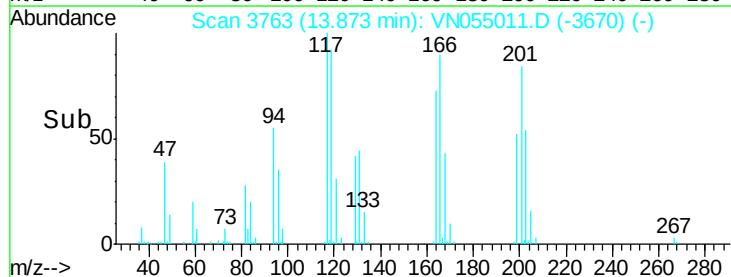
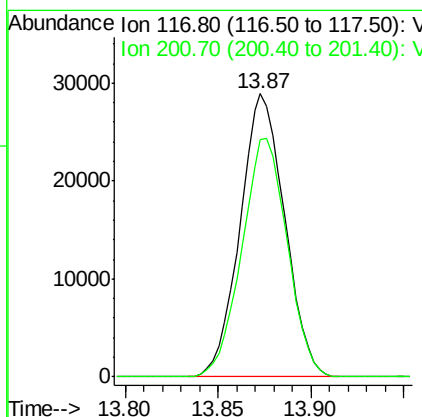
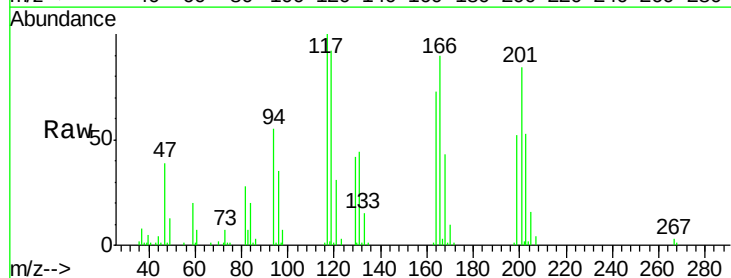
RT: 13.87 min Scan# 3763

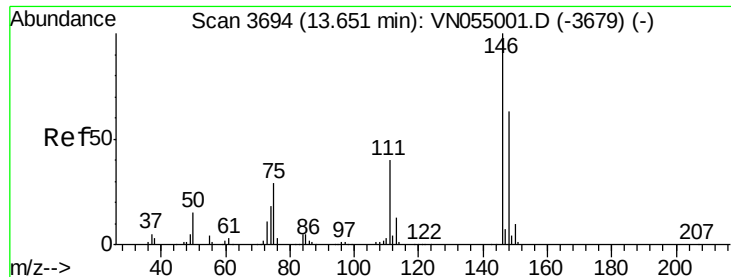
Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	117	Resp:	48173
Ion	Ratio	Lower	Upper
117	100		
201	85.8	43.4	130.2





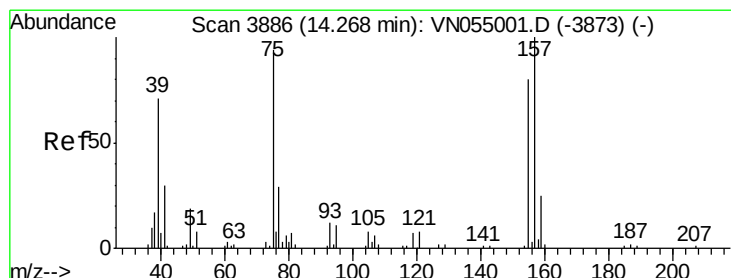
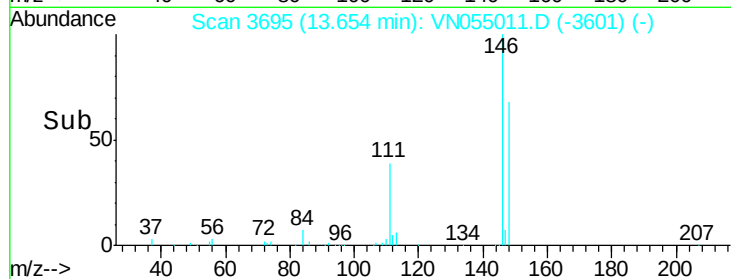
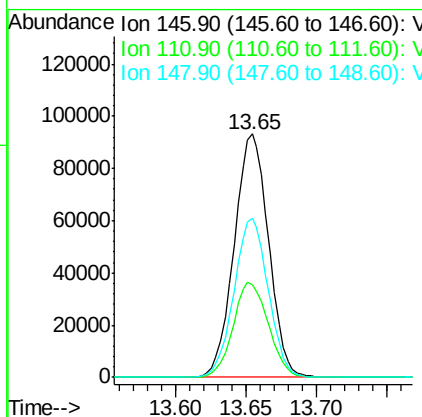
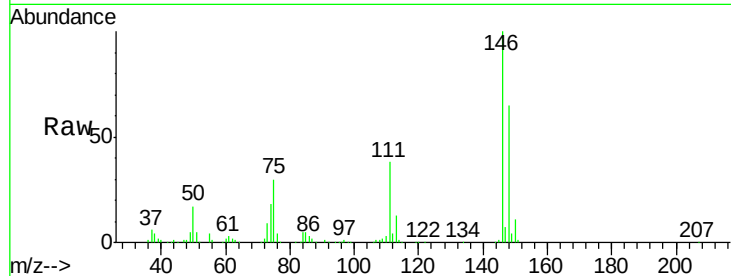
#91
 1,2-Dichlorobenzene
 Concen: 20.344 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0413WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	60.9
148	65.0	32.2	96.6

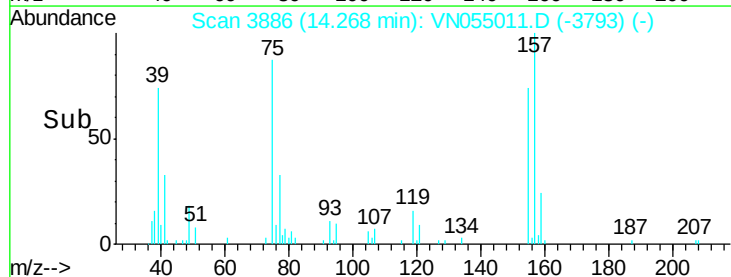
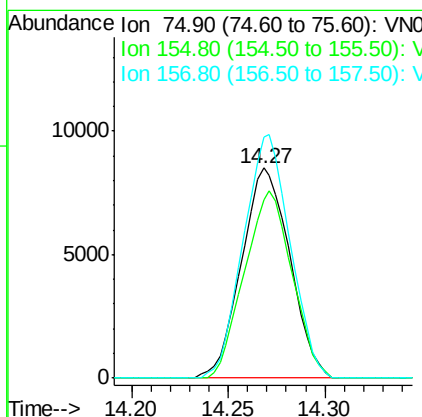
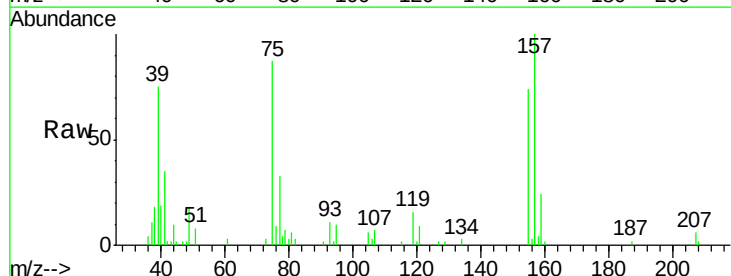
Manual Integrations
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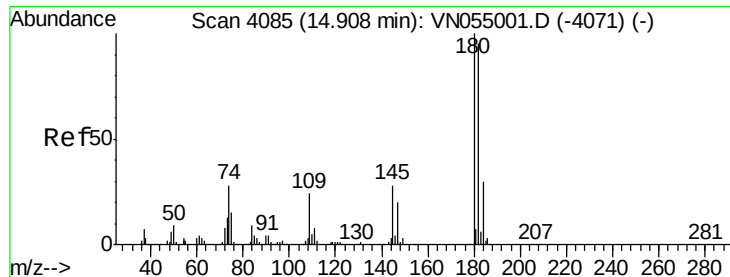
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 4/16/2019 1:58:34 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.764 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	87.8	42.0	126.0
157	112.2	52.1	156.4





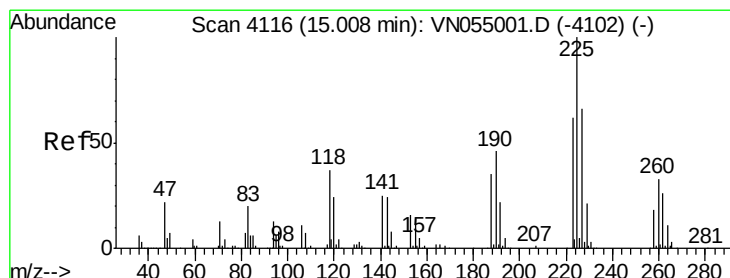
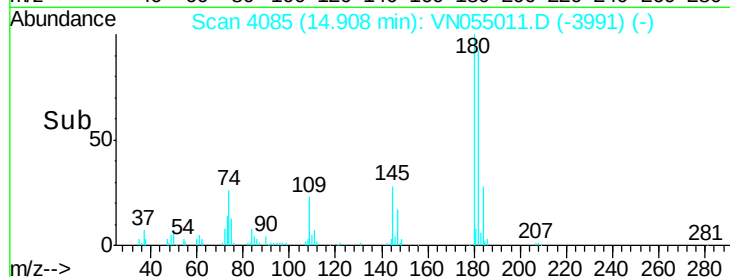
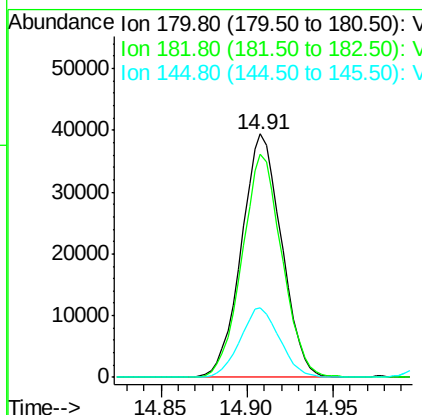
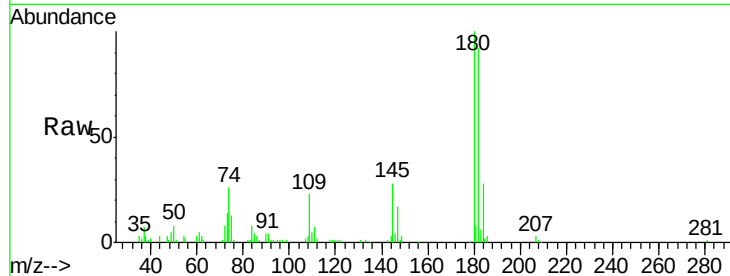
#93
 1,2,4-Trichlorobenzene
 Concen: 18.805 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Instrument :
 MSVOA_N
 ClientSampled :
 VN0413WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.4	47.5	142.6
145	28.1	14.2	42.8

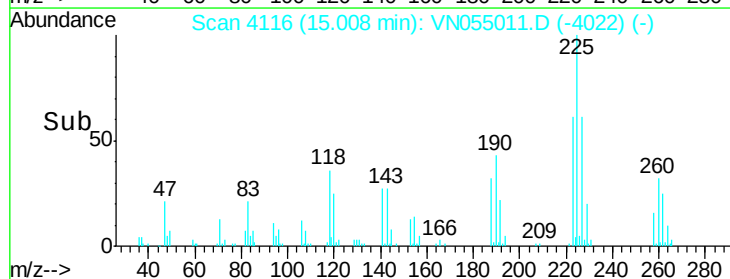
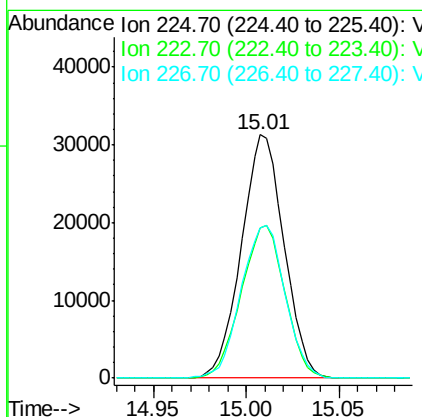
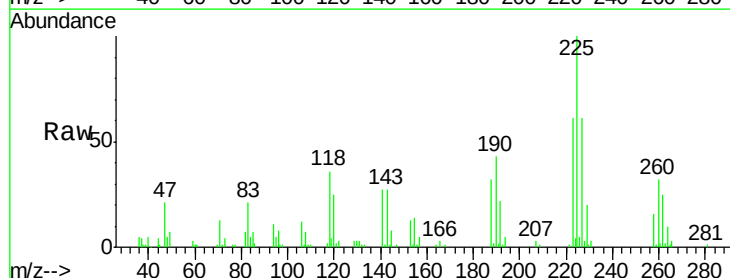
Manual Integrations
 APPROVED

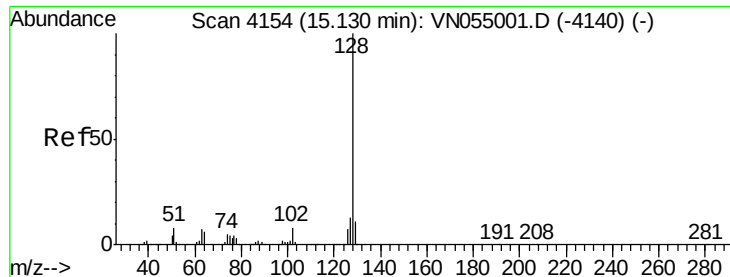
MMDadoda
 4/16/2019 1:58:34 PM



#94
 Hexachlorobutadiene
 Concen: 20.060 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055011.D
 Acq: 12 Apr 2019 20:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	31.4	94.0
227	64.7	32.6	97.7





#95

Naphthalene

Concen: 19.072 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Instrument :

MSVOA_N

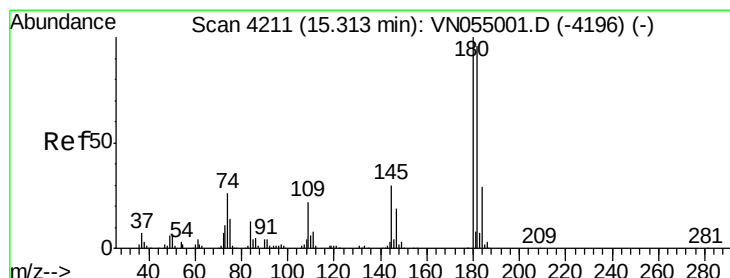
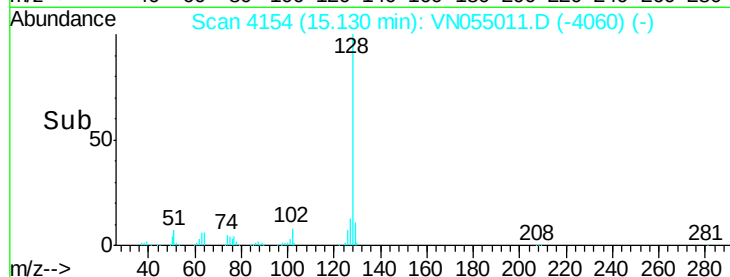
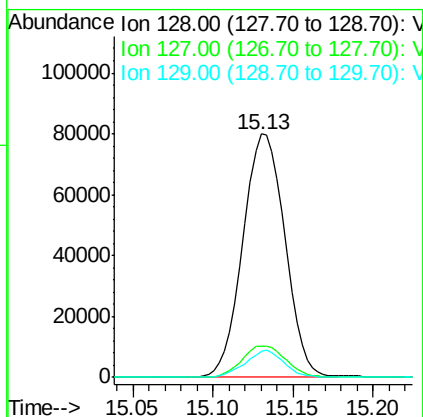
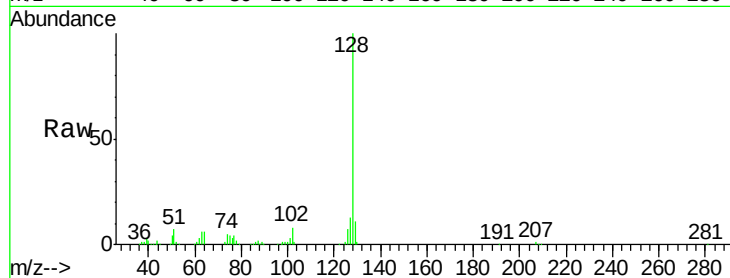
ClientSampleId :

VN0413WBSD01

Tot Ion:	128	Resp:	143781
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.1	15.1
129	10.2	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
4/16/2019 1:58:34 PM



#96

1,2,3-Trichlorobenzene

Concen: 19.242 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055011.D

Acq: 12 Apr 2019 20:39

Tgt Ion:	180	Resp:	67804
Ion Ratio	Lower	Upper	
180	100		
182	93.8	48.0	144.0
145	30.2	15.3	45.9

