

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051826.D
 Acq On : 12 Oct 2018 9:27
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 11:27:50 AM

Quant Time: Oct 12 10:21:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 09:43:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	157925	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	881797	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	825615	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	279475	28.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.80%
60) 4-Bromofluorobenzene	12.40	95	377461	32.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	109.90%
63) Toluene-d8	10.09	98	1059043	29.08	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.93%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	636654	107.43	ug/l	100
3) Chloromethane	2.06	50	630016	94.69	ug/l	100
4) Vinyl Chloride	2.18	62	952858	96.45	ug/l	99
5) Bromomethane	2.55	94	822221	93.81	ug/l	87
6) Chloroethane	2.70	64	672725	92.93	ug/l	99
7) Trichlorofluoromethane	3.01	101	1382079	100.29	ug/l	95
8) Diethyl Ether	3.41	74	394599	96.82	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.76	101	769583	96.00	ug/l #	40
10) 1,1-Dichloroethene	3.73	96	708473	95.66	ug/l	86
11) Methyl Iodide	3.95	142	1139148	115.52	ug/l	94
12) Methyl Acetate	4.33	43	461530	102.79	ug/l	94
13) Acrolein	3.61	56	143385	468.71	ug/l	88
14) Acrylonitrile	4.99	53	1039444	522.03	ug/l #	61
15) Acetone	3.82	58	241460	470.44	ug/l	88
16) Carbon Disulfide	4.05	76	1951253	104.04	ug/l	98
17) Allyl chloride	4.32	41	861804	98.58	ug/l	76
18) Methylene Chloride	4.55	84	809946	98.93	ug/l #	87
19) trans-1,2-Dichloroethene	5.04	96	828993	99.60	ug/l	84
20) Diisopropyl ether	5.95	45	1886025	96.10	ug/l #	82
21) 1,1-Dichloroethane	5.85	63	1319861	96.03	ug/l #	98
22) cis-1,2-Dichloroethene	6.83	96	969850	98.55	ug/l #	81
23) tert-Butyl Alcohol	4.79	59	266534	503.73	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	2083263	98.46	ug/l #	67
25) Chloroform	7.37	83	1581346	97.98	ug/l	97
26) Cyclohexane	7.65	56	1111424	94.69	ug/l #	70
29) 1,1-Dichloropropene	7.79	75	1144525	100.98	ug/l	94
30) 2-Butanone	6.84	43	1175486	488.12	ug/l #	85
31) 2,2-Dichloropropane	6.83	77	1332408	98.71	ug/l #	77
32) 1,1,1-Trichloroethane	7.57	97	1523300	101.76	ug/l #	93
33) Carbon Tetrachloride	7.77	117	1398827	104.72	ug/l	94
34) Benzene	8.04	78	3387691	100.89	ug/l #	60
35) Methacrylonitrile	7.19	41	341154m	117.06	ug/l	
36) 1,2-Dichloroethane	8.13	62	1080084m	99.89	ug/l	
37) Trichloroethene	8.84	130	1053758	101.84	ug/l	96
38) Methylcyclohexane	9.08	83	1457733	99.92	ug/l	78
39) 1,2-Dichloropropane	9.12	63	776959	96.65	ug/l	95
40) Dibromomethane	9.21	93	596335	102.72	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1252246	105.50	ug/l	95
42) Vinyl Acetate	5.90	43	6777720	512.14	ug/l #	88
43) Ethyl Acetate	6.93	43	538485	106.60	ug/l	99
44) Isopropyl Acetate	8.17	43	1047946	102.69	ug/l	96
45) 1,4-Dioxane	9.20	88	174010	2199.86	ug/l #	74
46) Methyl methacrylate	9.20	41	485456	104.02	ug/l	73
47) n-amyl Acetate	12.07	43	966354m	123.00	ug/l	
48) t-1,3-Dichloropropene	10.38	75	1274473	113.70	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	1381122	109.98	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	835091	105.33	ug/l	95
51) Ethyl methacrylate	10.43	69	976692	109.69	ug/l	84
52) 1,3-Dichloropropane	10.71	76	1279729	103.37	ug/l	98
53) Dibromochloromethane	10.90	129	1086678	116.03	ug/l	96
54) 1,2-Dibromoethane	11.01	107	903851	111.05	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	2159376	583.45	ug/l #	93
56) Bromoform	12.13	173	779496	136.85	ug/l	94
58) 4-Methyl-2-Pentanone	9.99	43	2727139	488.69	ug/l #	85
59) 2-Hexanone	10.75	43	1849924m	493.62	ug/l	
61) Tetrachloroethene	10.63	164	1038360	96.98	ug/l	96
62) Toluene	10.16	91	4135693	101.12	ug/l	98
64) Chlorobenzene	11.43	112	2760186	104.89	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	1072264	107.23	ug/l	99
66) Ethyl Benzene	11.51	91	4662141	104.42	ug/l	99
67) m/p-Xylenes	11.62	106	3837375	214.86	ug/l	96
68) o-Xylene	11.95	106	1869741	105.42	ug/l	88
69) Styrene	11.96	104	3016768	115.70	ug/l	96
70) Isopropylbenzene	12.25	105	5031808	106.91	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	988318	106.17	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	750190m	85.26	ug/l	
73) Bromobenzene	12.53	156	1304450	117.24	ug/l	80
74) n-propylbenzene	12.59	91	5549508	111.41	ug/l	94
75) 2-Chlorotoluene	12.67	91	3178150	107.15	ug/l	91
76) 1,3,5-Trimethylbenzene	12.73	105	4241885	110.52	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	283749	129.73	ug/l	93
78) 4-Chlorotoluene	12.77	91	3247881	115.08	ug/l	90
79) tert-butylbenzene	12.99	119	3877192	108.56	ug/l	92
80) 1,2,4-Trimethylbenzene	13.04	105	4265287	111.73	ug/l	95
81) sec-Butylbenzene	13.17	105	5065061	109.29	ug/l	96
82) p-Isopropyltoluene	13.29	119	4668949	115.36	ug/l	95
83) 1,3-Dichlorobenzene	13.28	146	2396164	126.07	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	2311241	132.14	ug/l	99
85) n-Butylbenzene	13.62	91	3677596	125.12	ug/l	94
86) Hexachloroethane	13.87	117	808232	116.89	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	2291897	122.61	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	152604	113.43	ug/l #	67
89) 1,2,4-Trichlorobenzene	14.91	180	1201253	159.92	ug/l	99
90) Hexachlorobutadiene	15.01	225	686990	107.58	ug/l	97
91) Naphthalene	15.13	128	2440720	161.76	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	1134001	148.06	ug/l	93

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ClientSampleId :
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QLast Update : Fri Oct 12 09:43:03 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

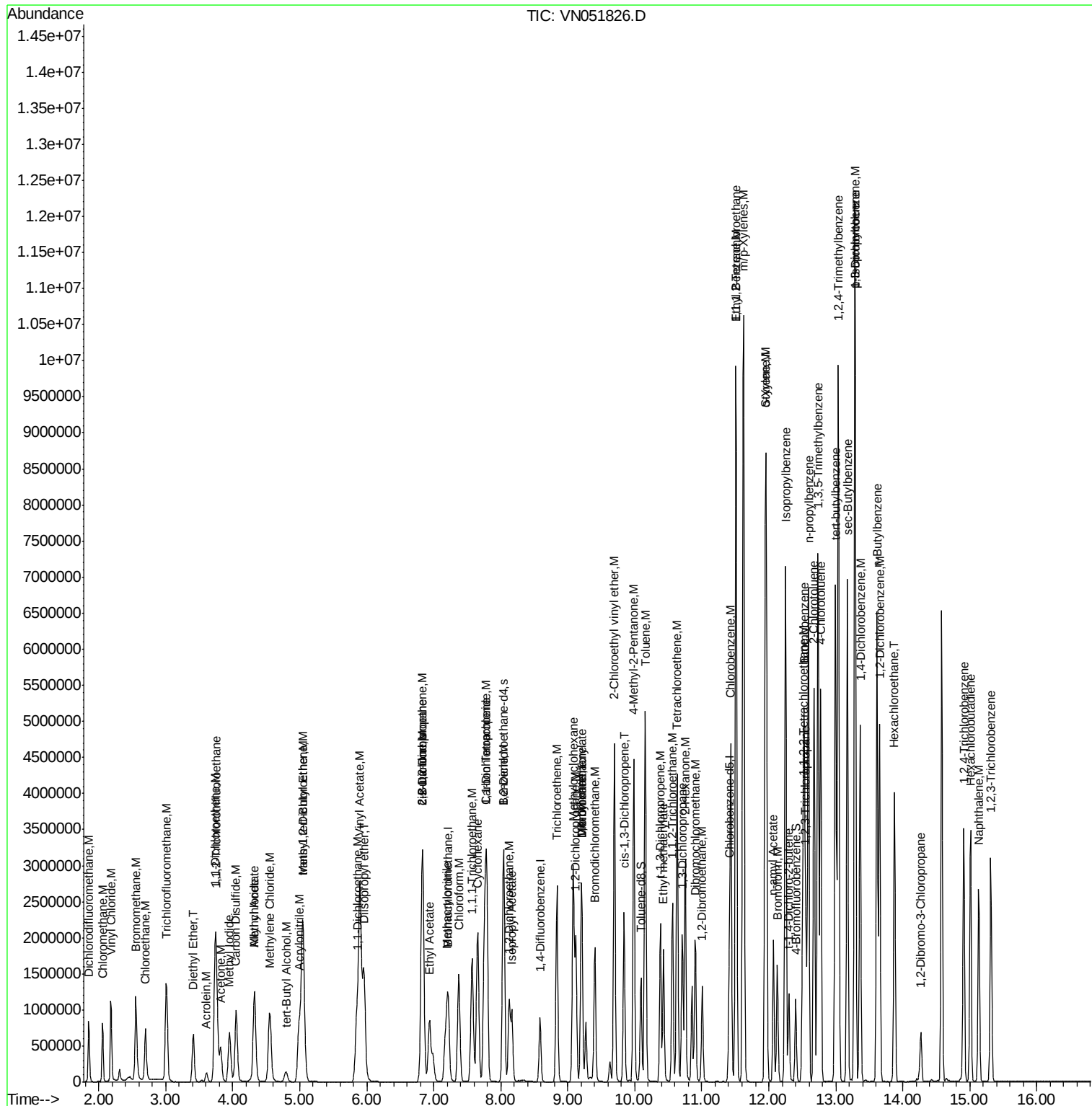
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Data File : VN051826.D
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Operator : MD\SY
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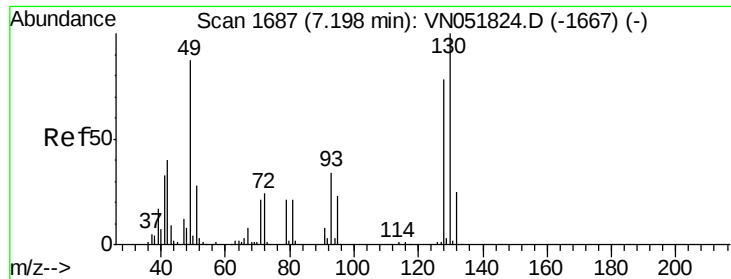
Instrument :
MSVOA_N
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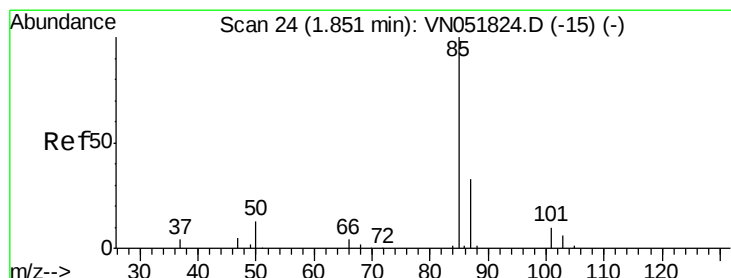
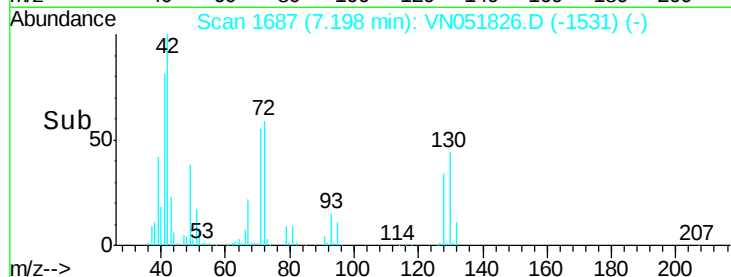
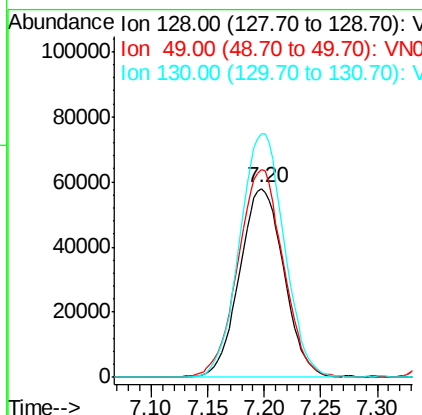
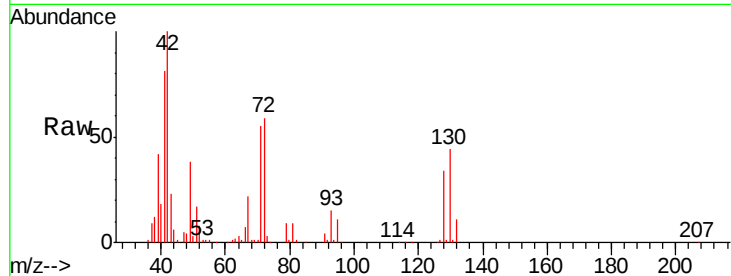
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

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VSTDIC100

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	157925		
49	112.8	0.0	403.3	
130	130.4	0.0	326.0	

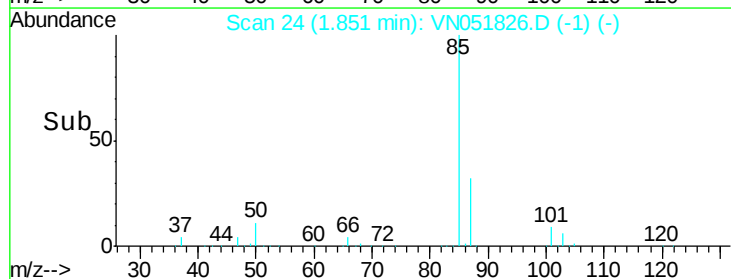
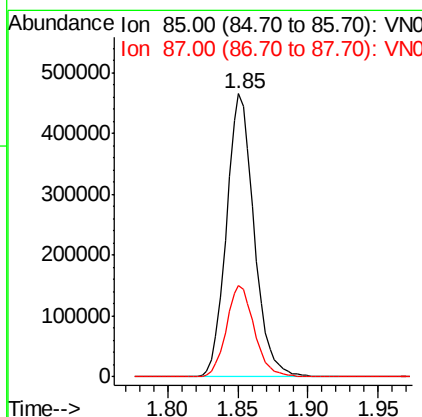
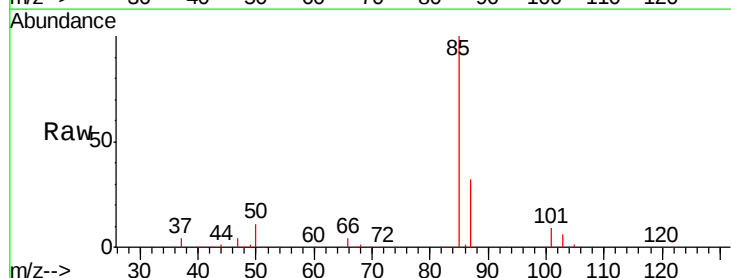
Manual Integrations
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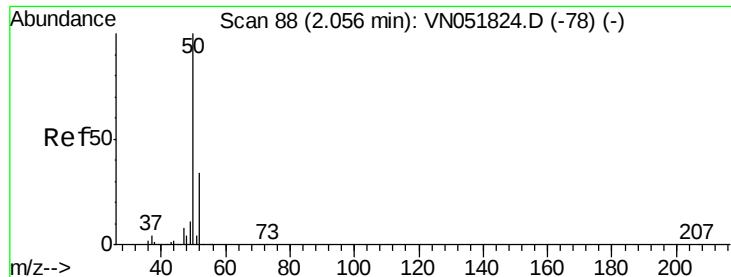
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#2
Dichlorodifluoromethane
Concen: 107.43 ug/l
RT: 1.85 min Scan# 24
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
85	100	636654		
87	32.4	16.3	48.8	





#3

Chloromethane

Concen: 94.69 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 50 Resp: 630016

Ion Ratio Lower Upper

50 100

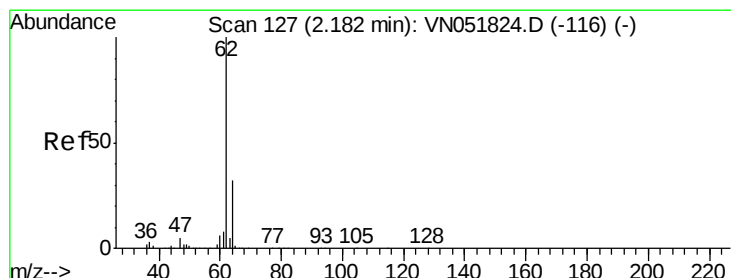
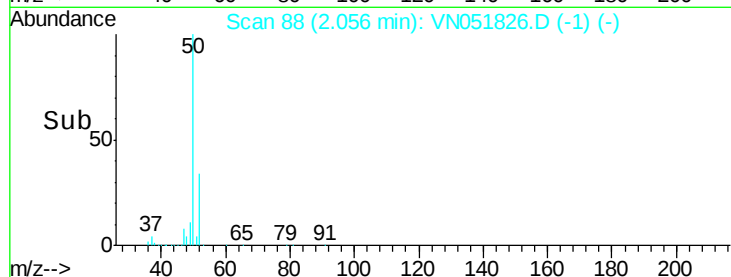
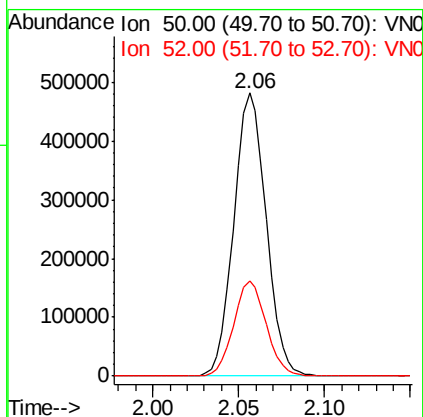
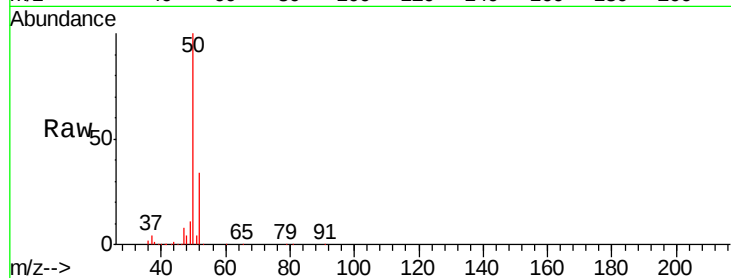
52 33.8 27.2 40.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 96.45 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN051826.D

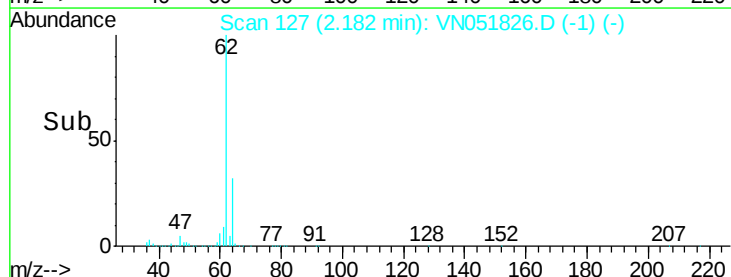
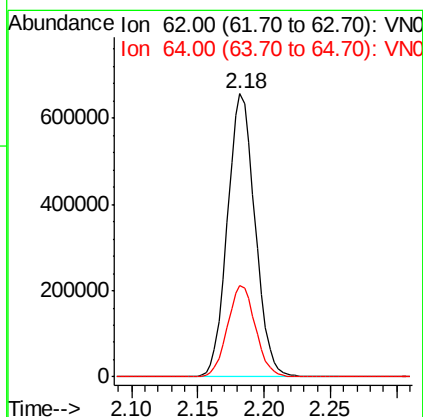
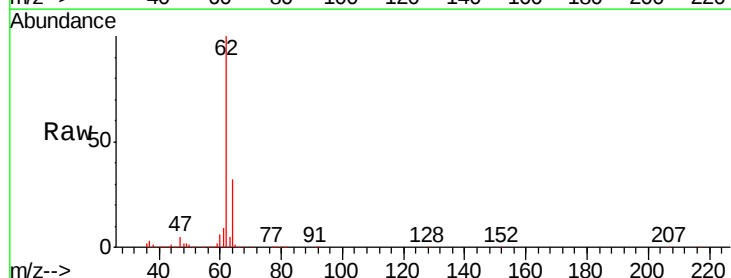
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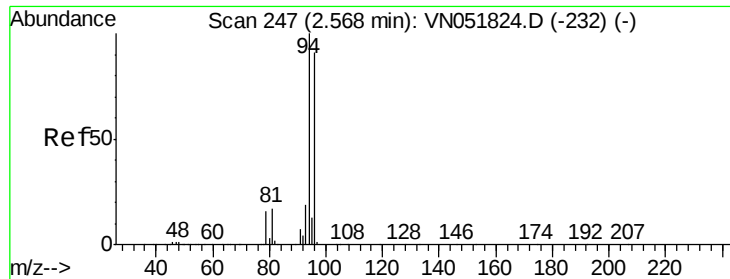
Tgt Ion: 62 Resp: 952858

Ion Ratio Lower Upper

62 100

64 32.2 25.4 38.2





#5

Bromomethane

Concen: 93.81 ug/l

RT: 2.55 min Scan# 243

Delta R.T. -0.01 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 94 Resp: 822221

Ion Ratio Lower Upper

94 100

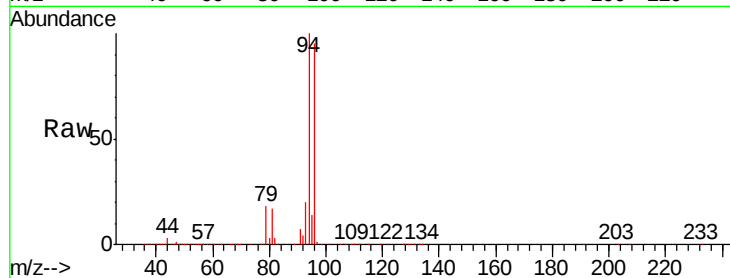
96 94.8 66.4 99.6

Manual Integrations

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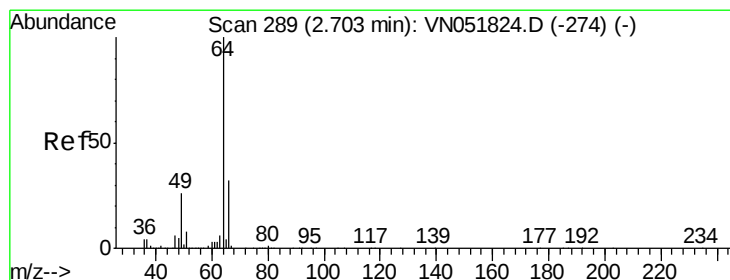
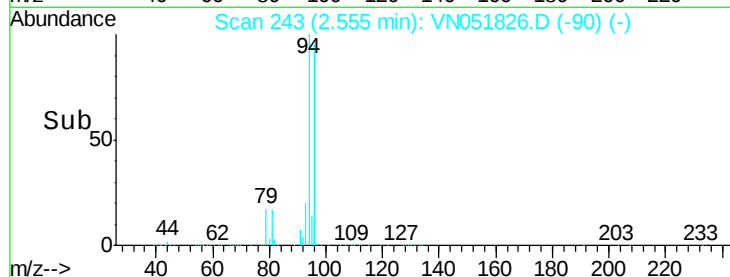
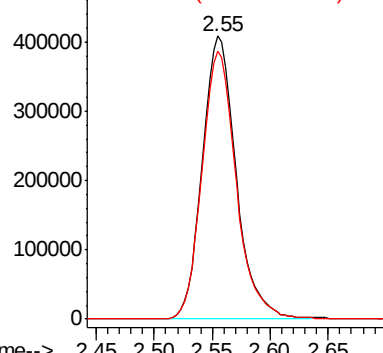
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 92.93 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.00 min

Lab File: VN051826.D

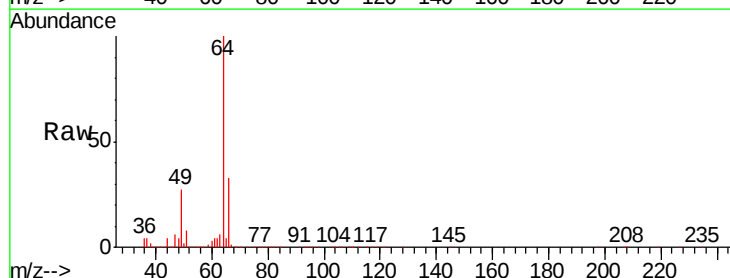
Acq: 12 Oct 2018 9:27

Tgt Ion: 64 Resp: 672725

Ion Ratio Lower Upper

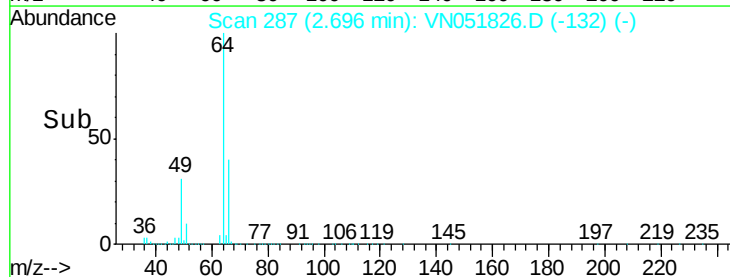
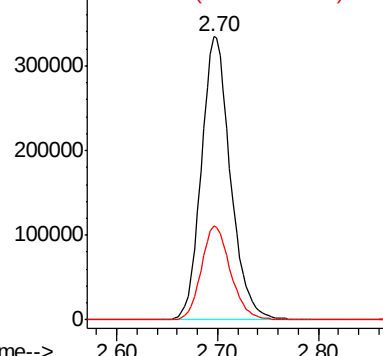
64 100

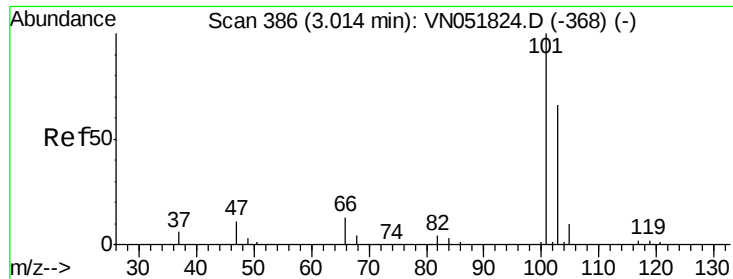
66 33.0 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

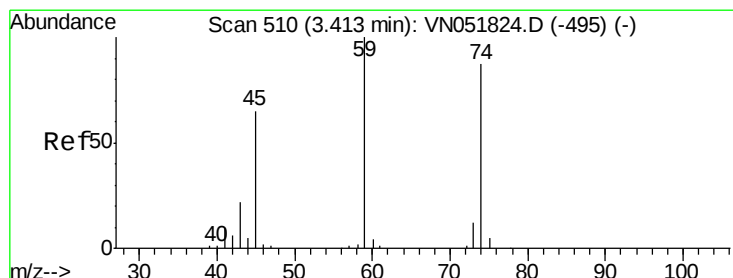
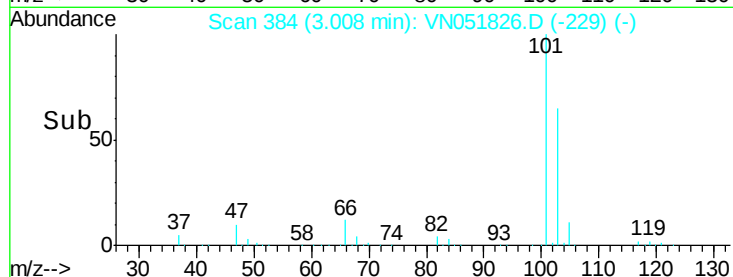
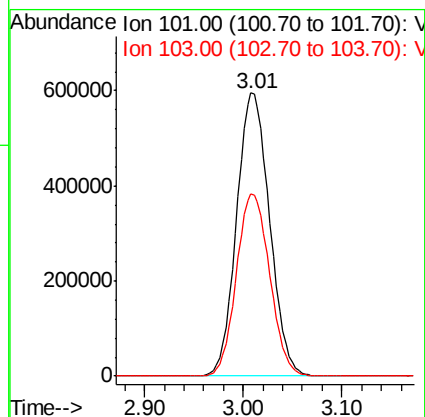
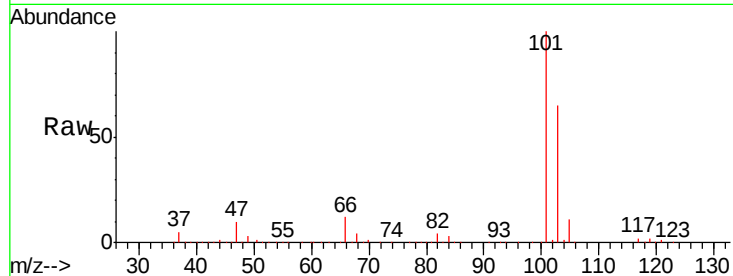
Trichlorofluoromethane
Concen: 100.29 ug/l
RT: 3.01 min Scan# 384
Delta R.T. -0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 101 Resp: 1382079
Ion Ratio Lower Upper
101 100
103 64.6 54.8 82.2

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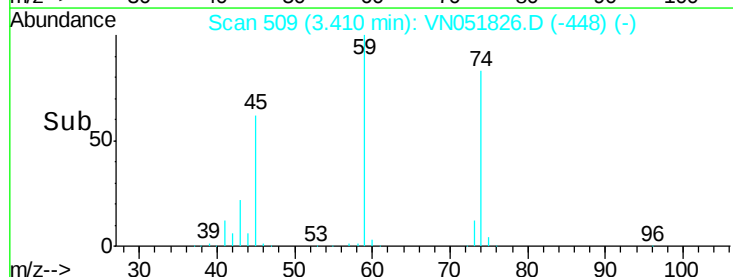
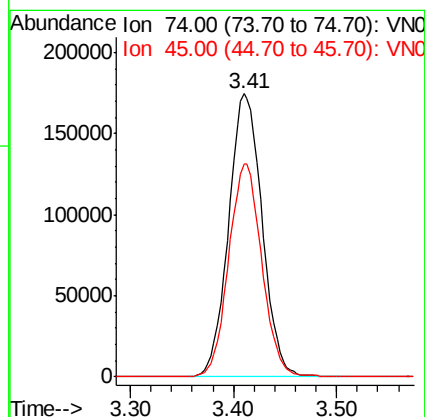
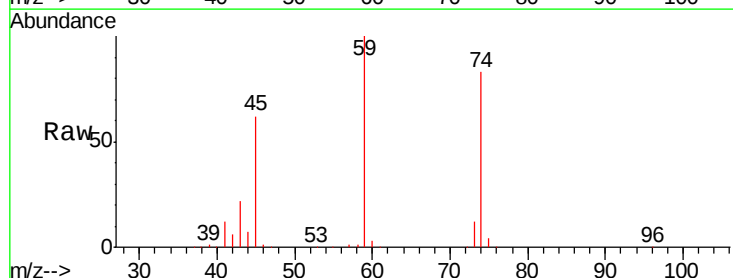
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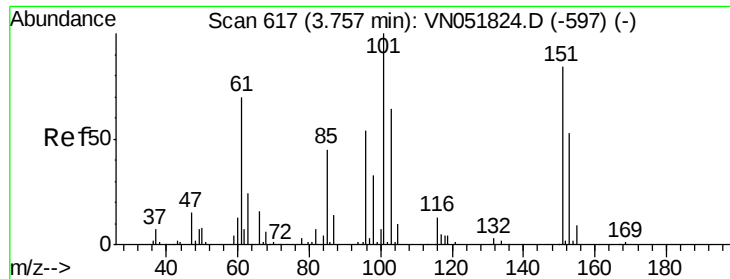


#8

Diethyl Ether
Concen: 96.82 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion: 74 Resp: 394599
Ion Ratio Lower Upper
74 100
45 74.3 20.7 186.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 96.00 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

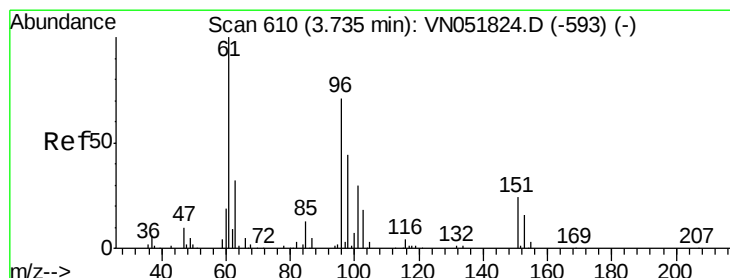
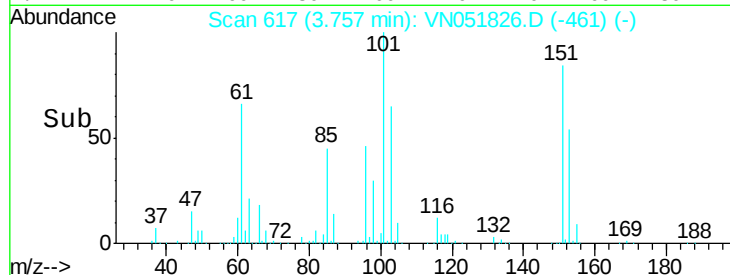
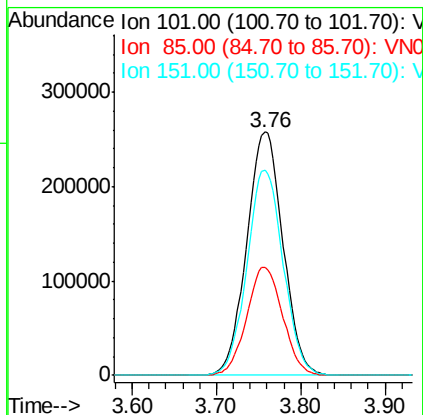
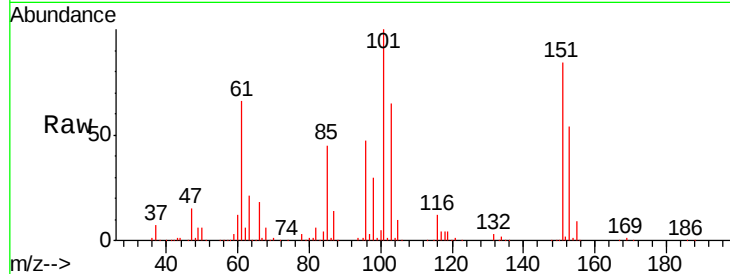
ClientSampleId :

VSTDIC100

Tgt Ion:	101	Resp:	769583
Ion Ratio	Lower	Upper	
101	100		
85	44.1	0.0	46.0
151	84.2	0.0	82.2#

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#10

1,1-Dichloroethene

Concen: 95.66 ug/l

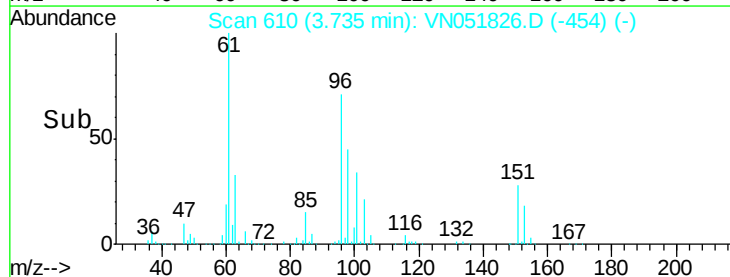
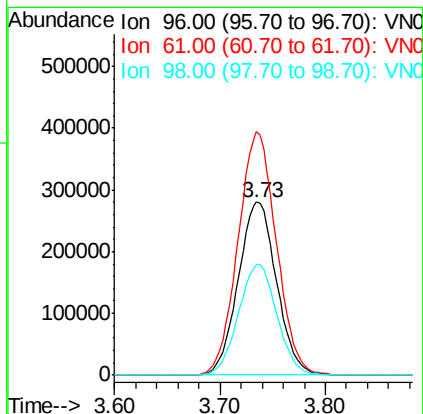
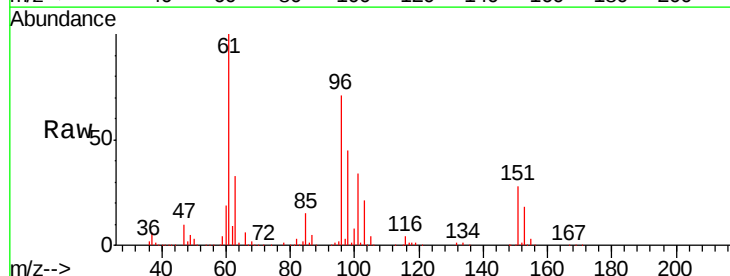
RT: 3.73 min Scan# 610

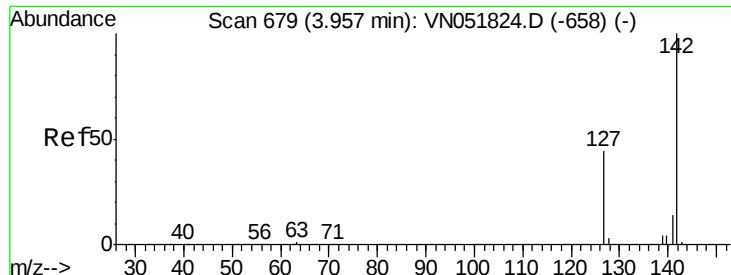
Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Tgt Ion:	96	Resp:	708473
Ion Ratio	Lower	Upper	
96	100		
61	140.6	133.0	199.6
98	63.8	52.6	78.8





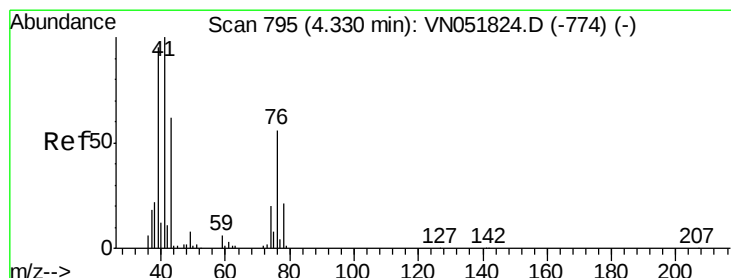
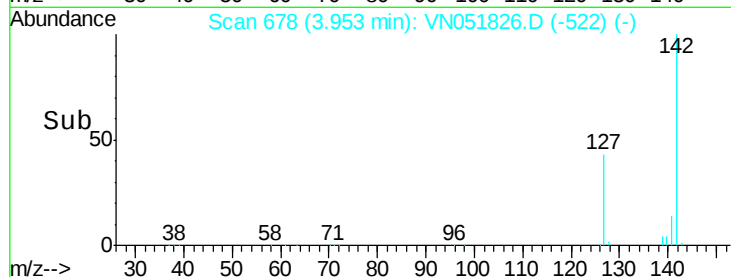
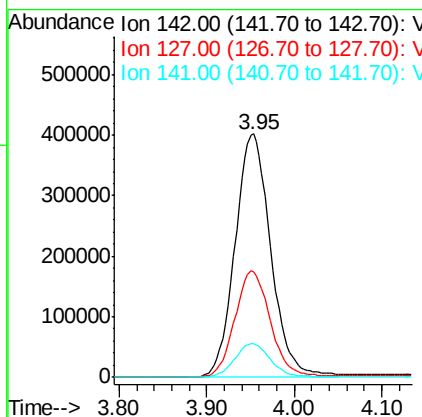
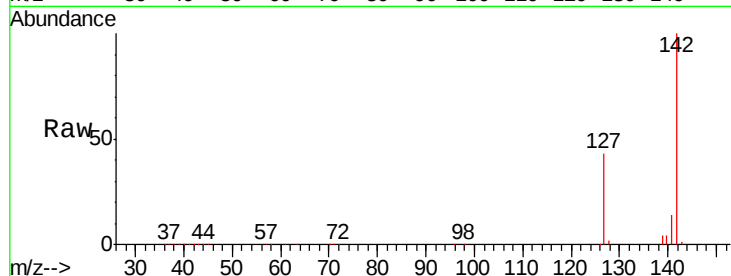
#11
Methyl Iodide
Concen: 115.52 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 142 Resp: 1139148
Ion Ratio Lower Upper
142 100
127 43.4 19.7 59.0
141 14.0 6.3 18.9

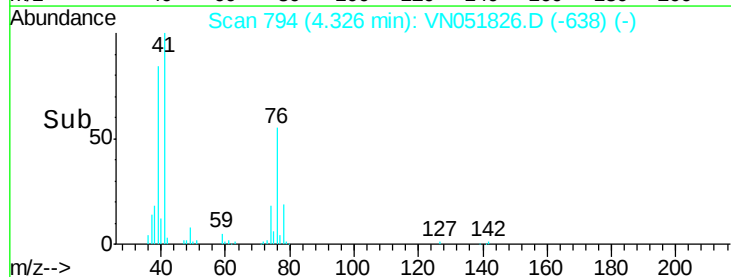
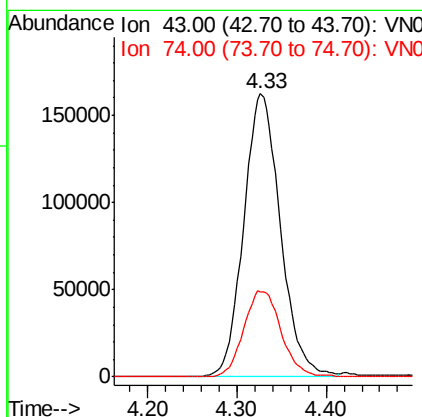
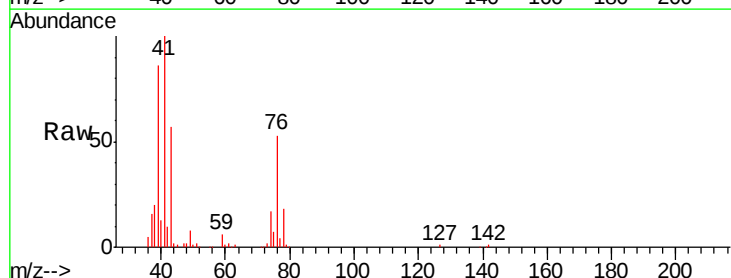
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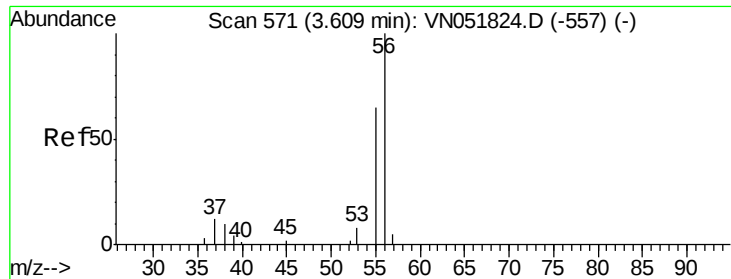
MMDadoda
10/15/2018 11:27:50 AM



#12
Methyl Acetate
Concen: 102.79 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion: 43 Resp: 461530
Ion Ratio Lower Upper
43 100
74 30.2 21.8 32.6





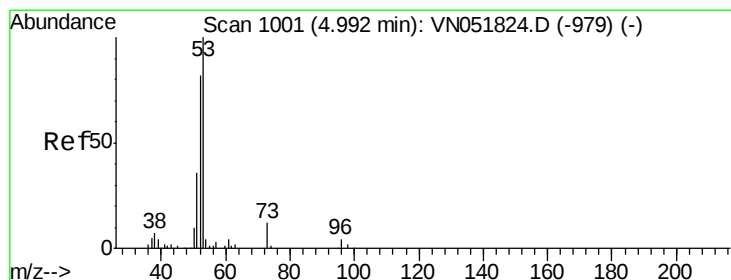
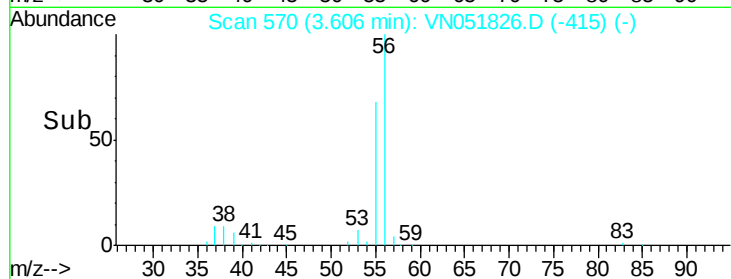
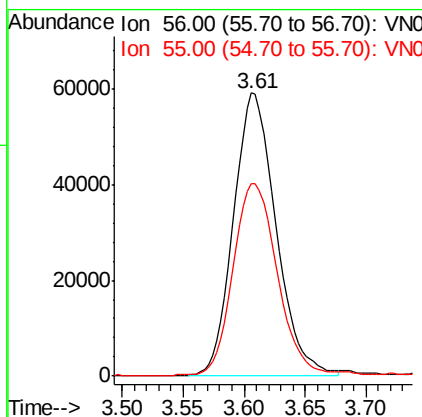
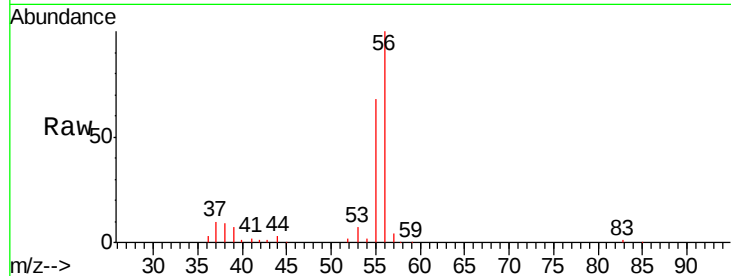
#13
Acrolein
Concen: 468.71 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
56	100		
55	69.8	64.0	96.0

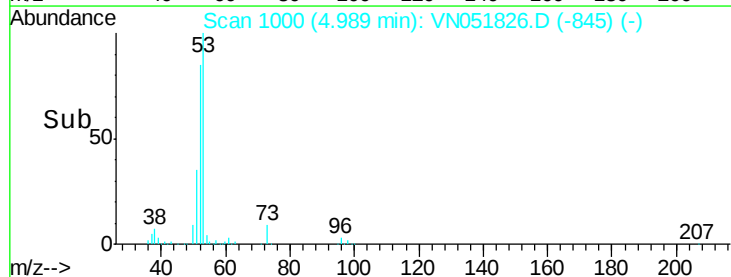
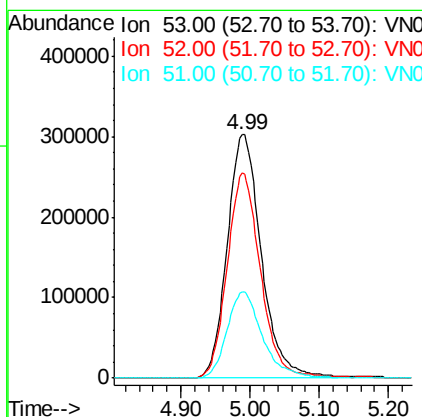
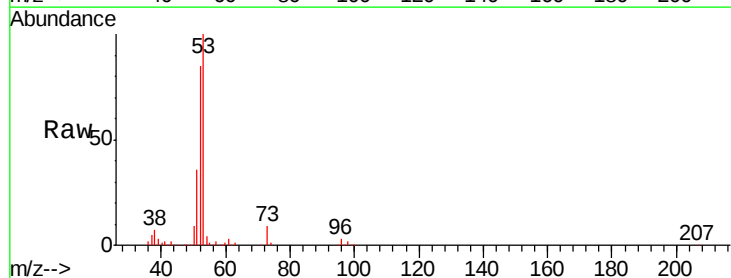
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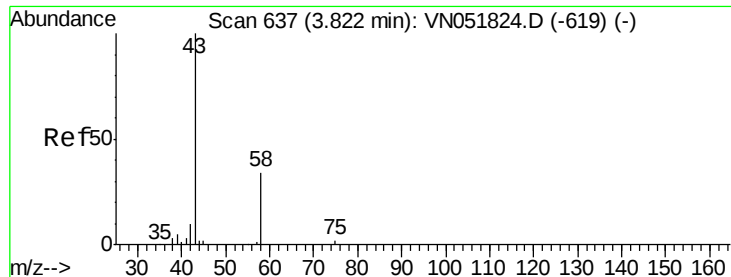
MMDadoda
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#14
Acrylonitrile
Concen: 522.03 ug/l
RT: 4.99 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Lower	Upper
53	100		
52	81.9	18.3	54.8#
51	36.6	19.7	59.1





#15

Acetone

Concen: 470.44 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 58 Resp: 241460

Ion Ratio Lower Upper

58 100

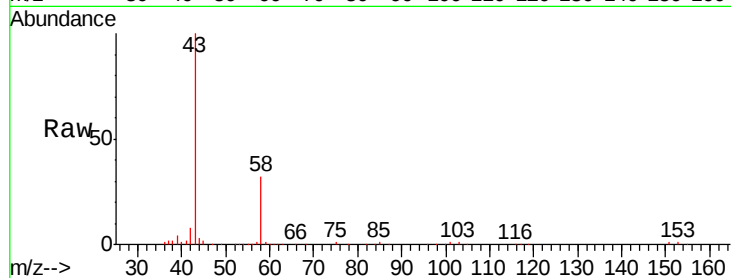
43 312.6 232.2 348.2

Manual Integrations

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Abundance Ion 58.00 (57.70 to 58.70): VN051826.D (-481) (-)

Ion 43.00 (42.70 to 43.70): VN051826.D (-481) (-)

300000

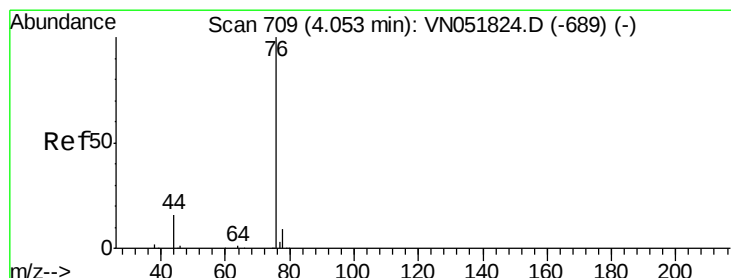
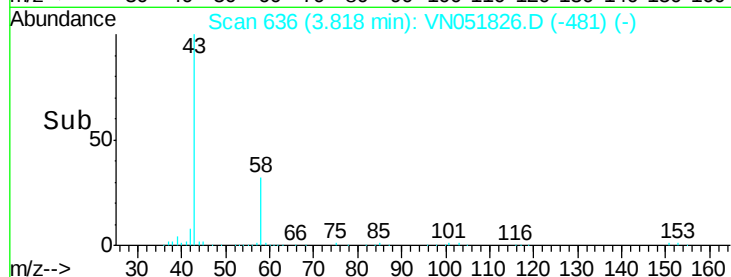
200000

100000

0

3.70 3.80 3.90

Time-->



#16

Carbon Disulfide

Concen: 104.04 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051826.D

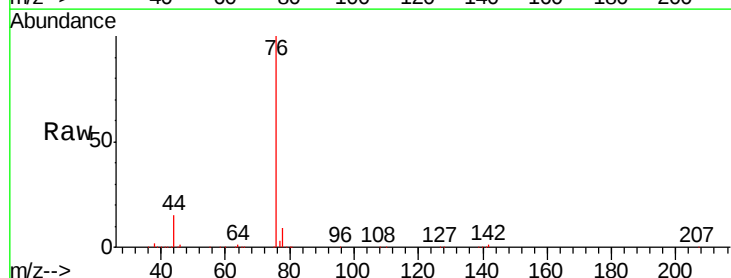
Acq: 12 Oct 2018 9:27

Tgt Ion: 76 Resp: 1951253

Ion Ratio Lower Upper

76 100

78 9.2 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN051826.D (-553) (-)

Ion 78.00 (77.70 to 78.70): VN051826.D (-553) (-)

800000

600000

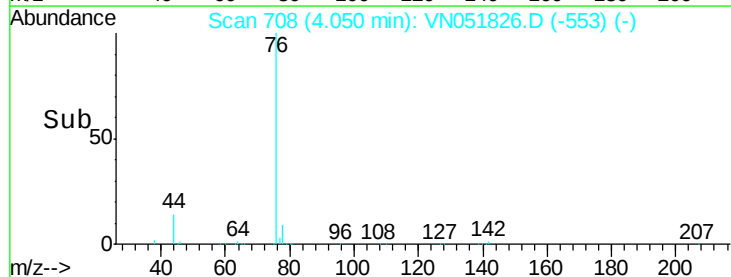
400000

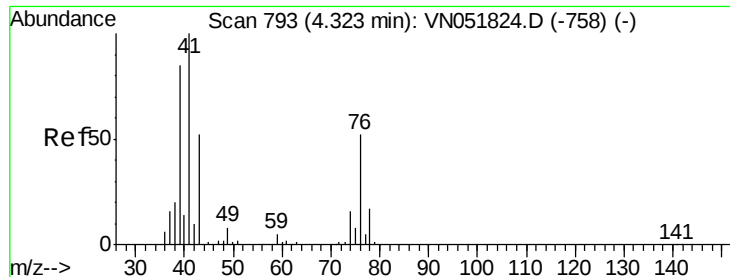
200000

0

3.90 4.00 4.10 4.20

Time-->





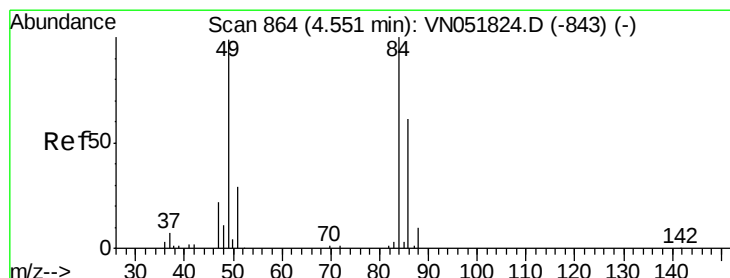
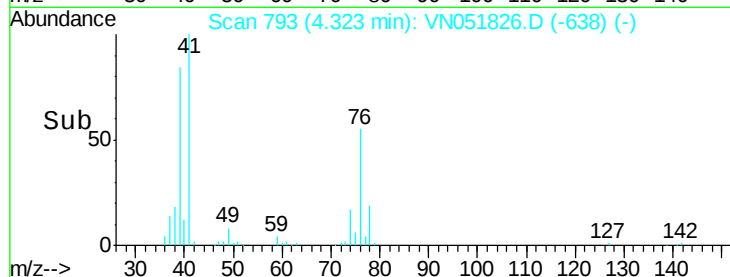
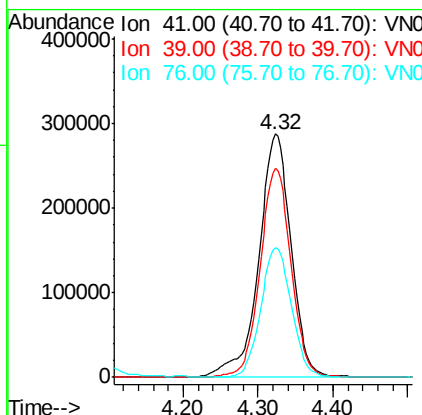
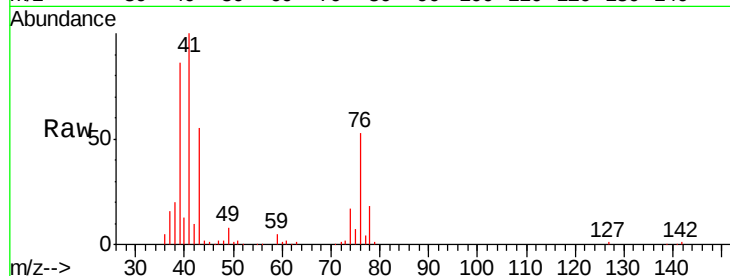
#17
 Allyl chloride
 Concen: 98.58 ug/l
 RT: 4.32 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Lower	Upper
41	100		
39	85.6	32.6	97.8
76	53.2	20.2	60.5

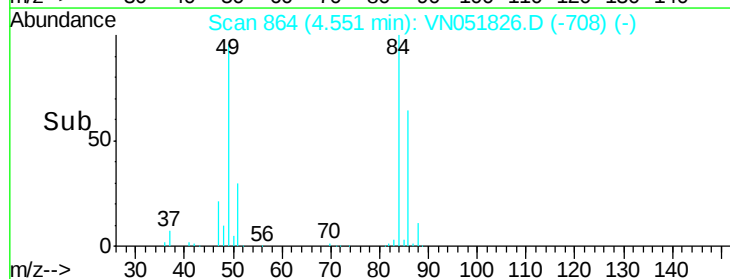
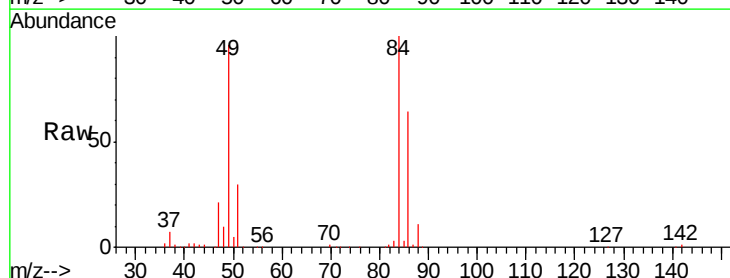
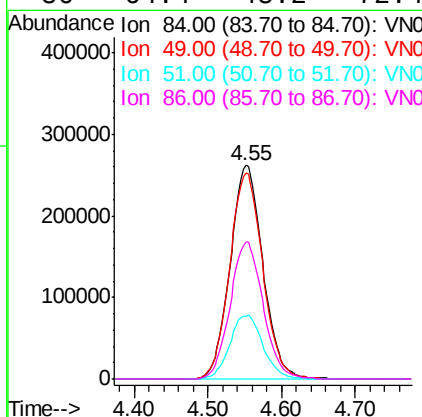
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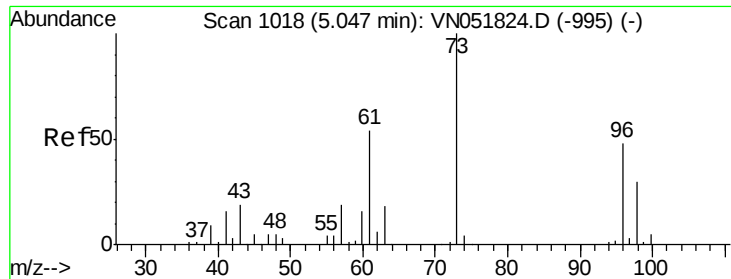
MMDadoda
 10/15/2018 11:27:50 AM



#18
 Methylene Chloride
 Concen: 98.93 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Lower	Upper
84	100		
49	96.3	91.6	137.4
51	29.6	29.8	44.6#
86	64.4	48.2	72.4





#19

trans-1,2-Dichloroethene

Concen: 99.60 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 828993

Ion Ratio Lower Upper

96 100

61 115.9 112.3 168.5

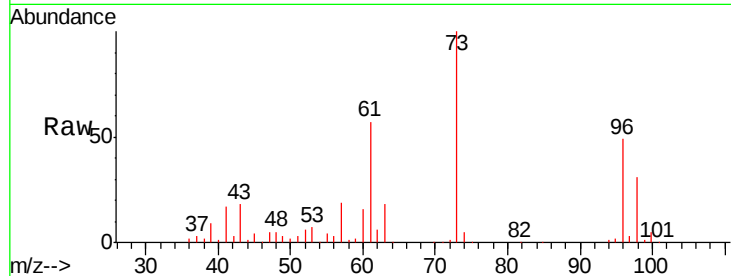
98 62.7 47.1 70.7

Manual Integrations

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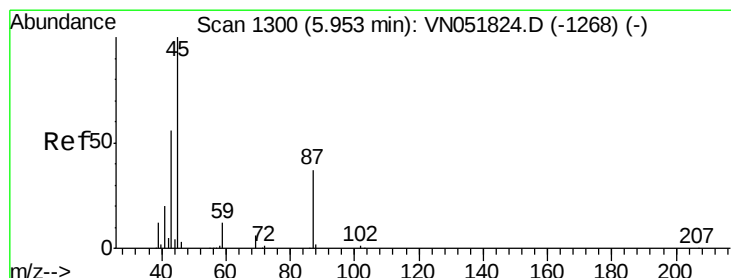
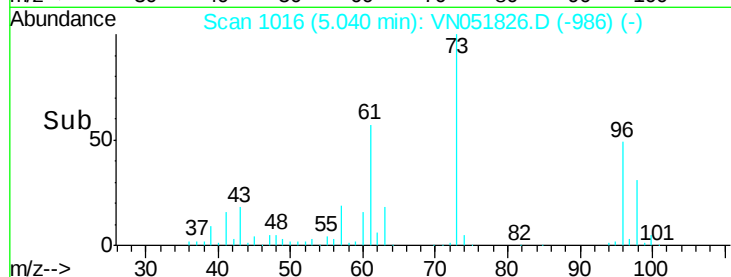
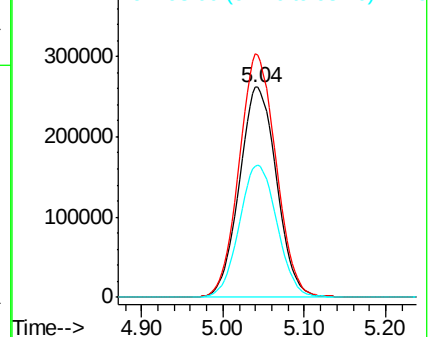


Abundance

Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#20

Diisopropyl ether

Concen: 96.10 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Tgt Ion: 45 Resp: 1886025

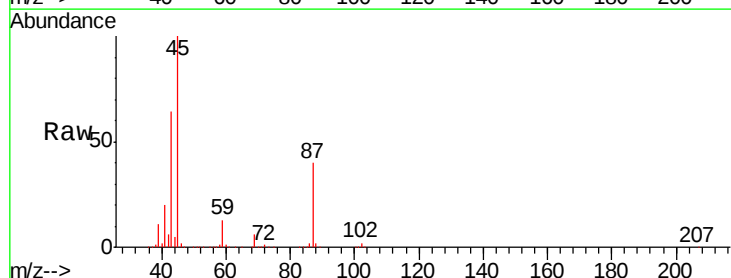
Ion Ratio Lower Upper

45 100

43 62.5 62.1 93.1

87 39.7 19.9 29.9#

59 13.2 9.8 14.6



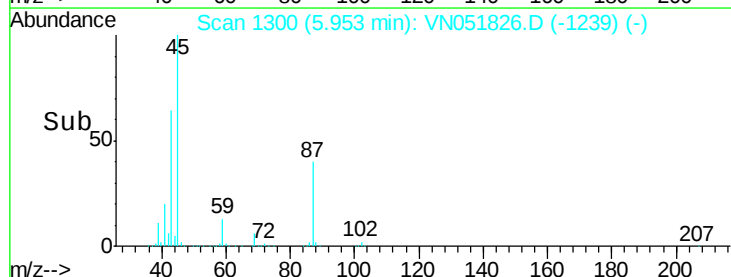
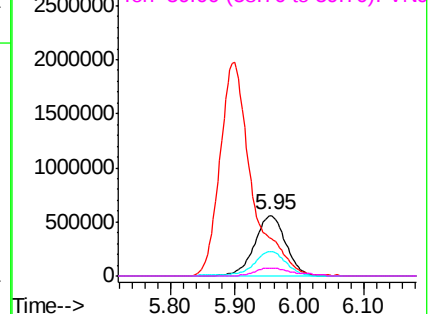
Abundance

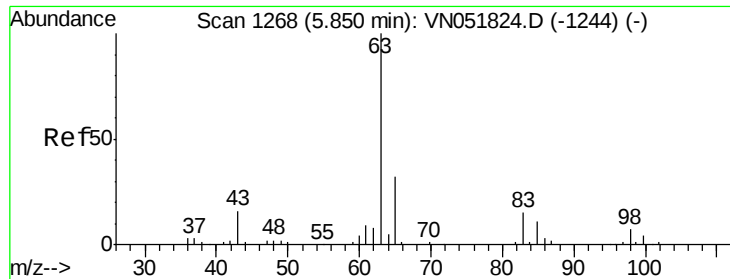
Ion 45.00 (44.70 to 45.70): VN0

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





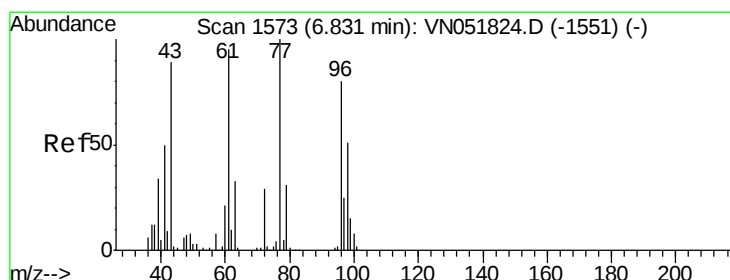
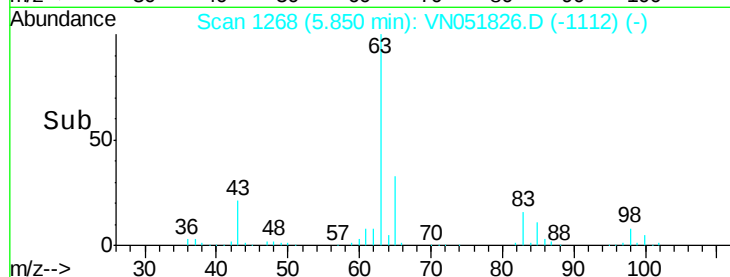
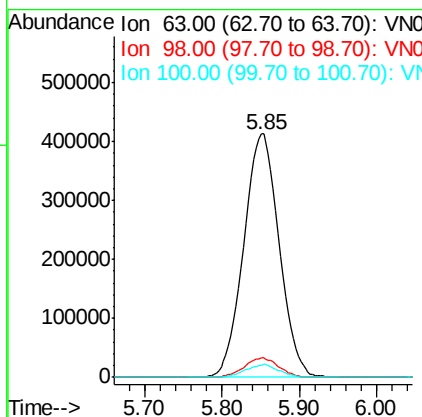
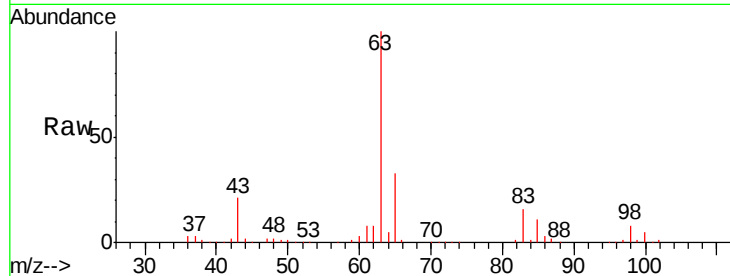
#21
 1,1-Dichloroethane
 Concen: 96.03 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.9	4.1	12.3
100	5.1	1.6	4.7#

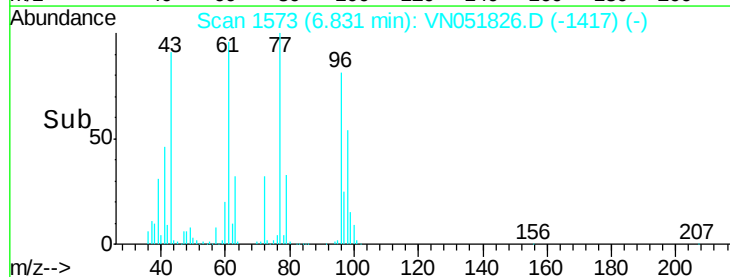
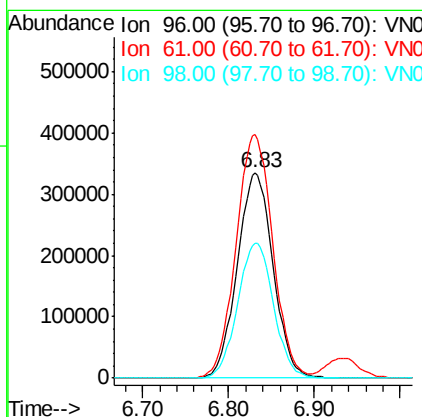
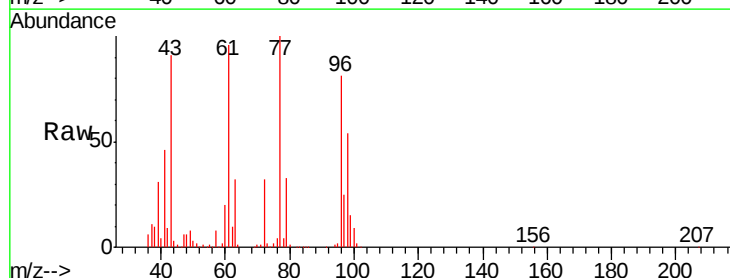
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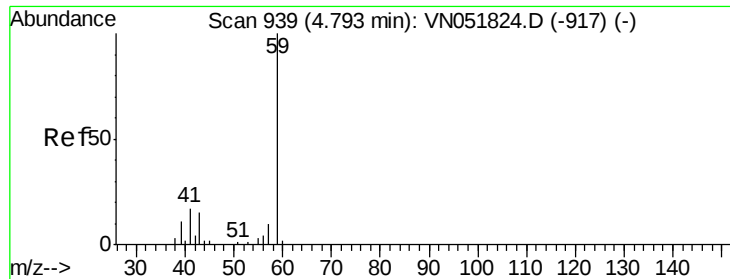
MMDadoda
 10/15/2018 11:27:50 AM



#22
 cis-1,2-Dichloroethene
 Concen: 98.55 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	121.4	124.5	186.7#
98	65.8	51.9	77.9





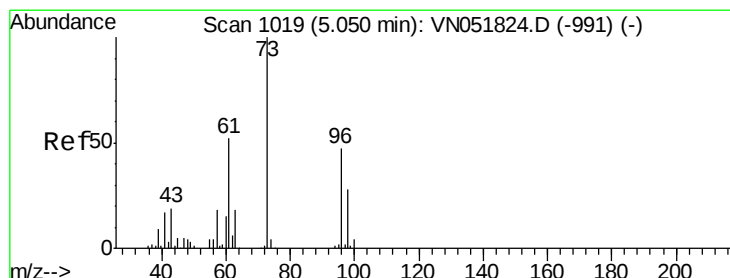
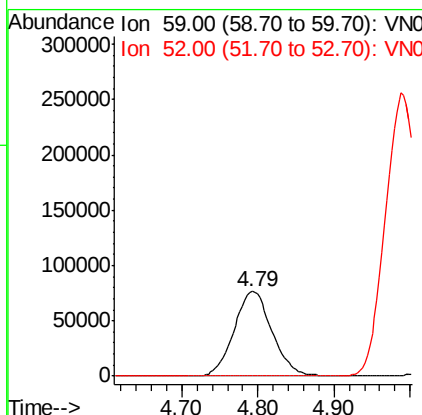
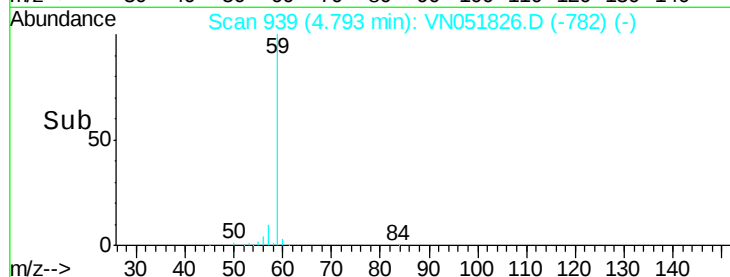
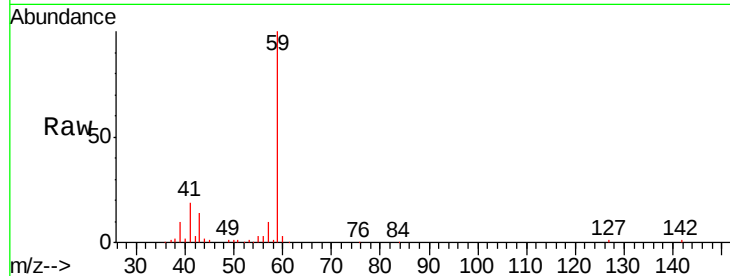
#23
 tert-Butyl Alcohol
 Concen: 503.73 ug/l
 RT: 4.79 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion: 59 Resp: 266534
 Ion Ratio Lower Upper
 59 100
 52 0.1 0.0 0.0#

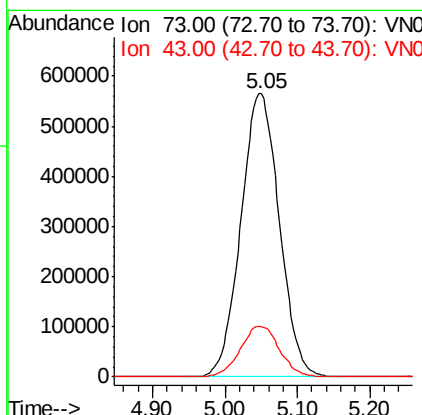
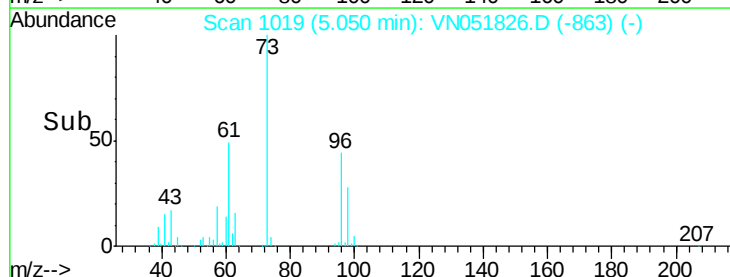
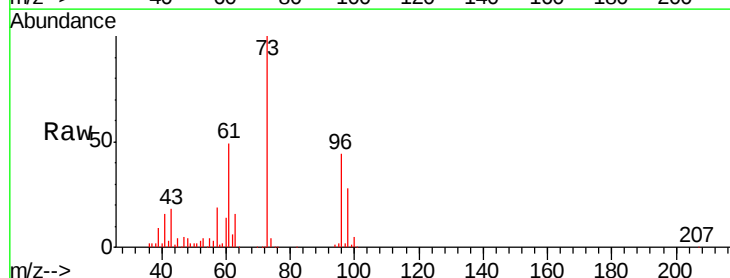
Manual Integrations
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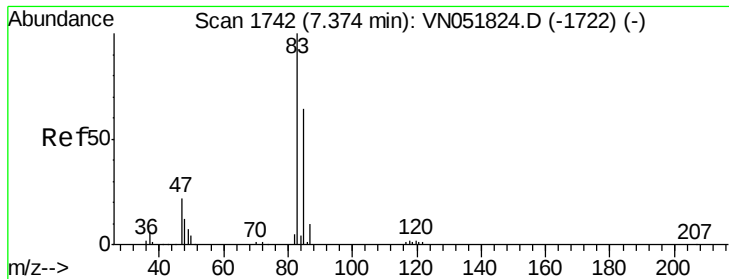
MMDadoda
 10/15/2018 11:27:50 AM



#24
 Methyl tert-Butyl Ether
 Concen: 98.46 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion: 73 Resp: 2083263
 Ion Ratio Lower Upper
 73 100
 43 18.1 5.4 8.0#





#25

Chloroform

Concen: 97.98 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 1581346

Ion Ratio Lower Upper

83 100

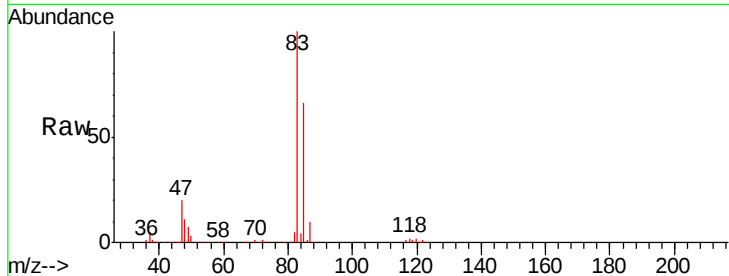
85 65.9 54.6 82.0

Manual Integrations

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Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 85.00 (84.70 to 85.70): VNO

7.37

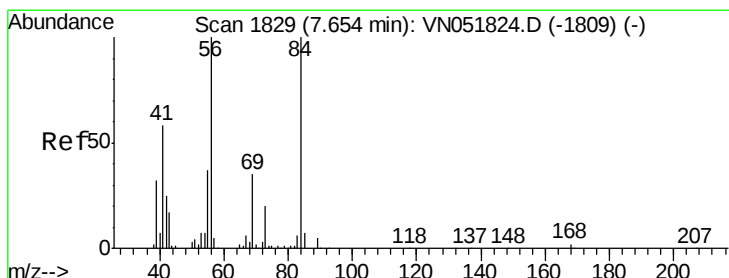
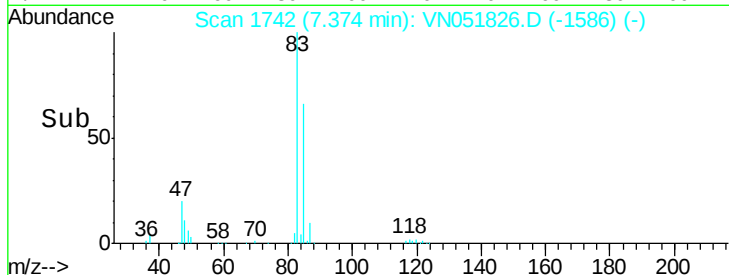
600000

400000

200000

0

Time-->



#26

Cyclohexane

Concen: 94.69 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

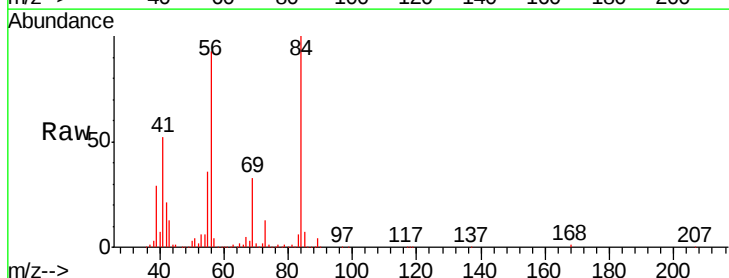
Tgt Ion: 56 Resp: 1111424

Ion Ratio Lower Upper

56 100

89 4.4 1.5 2.3#

84 107.4 64.2 96.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 89.00 (88.70 to 89.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

7.65

800000

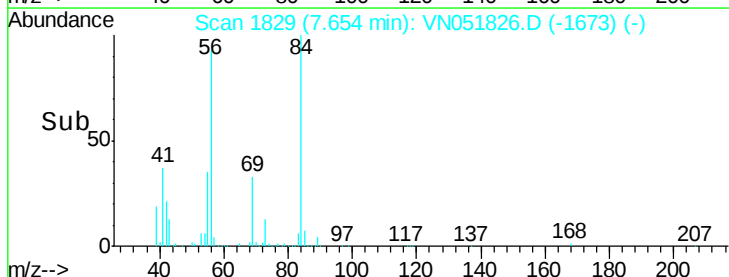
600000

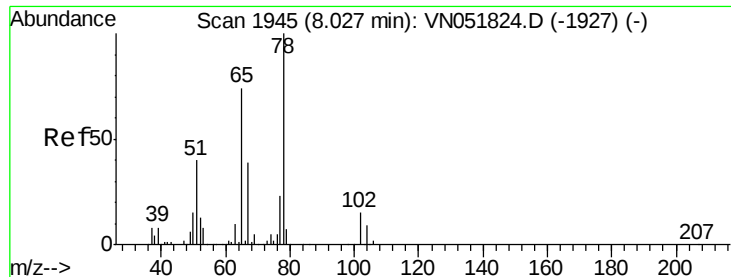
400000

200000

0

Time-->





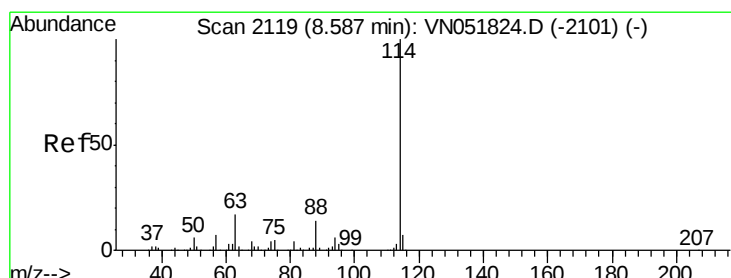
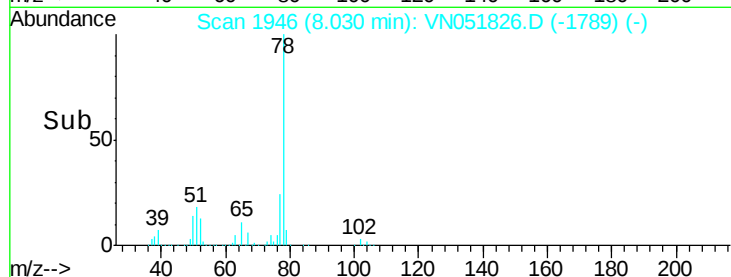
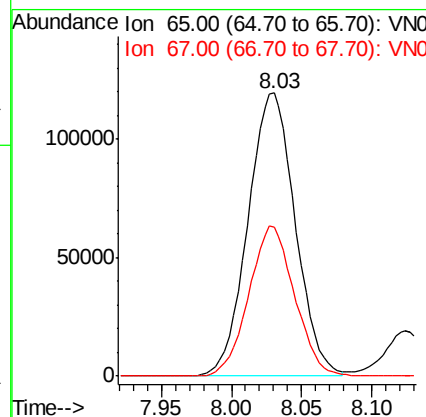
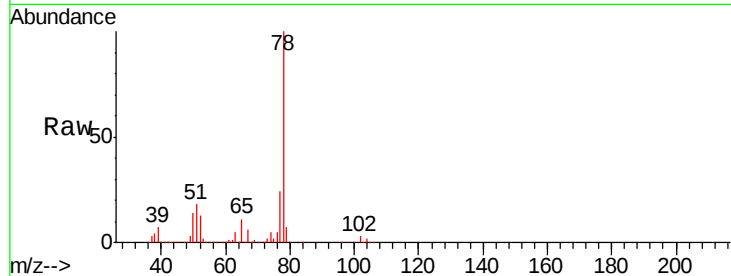
#27
 1,2-Dichloroethane-d4
 Concen: 94.69 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	279475		
67	51.3		41.8	62.8

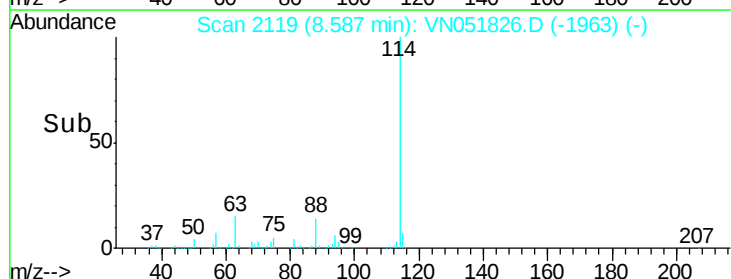
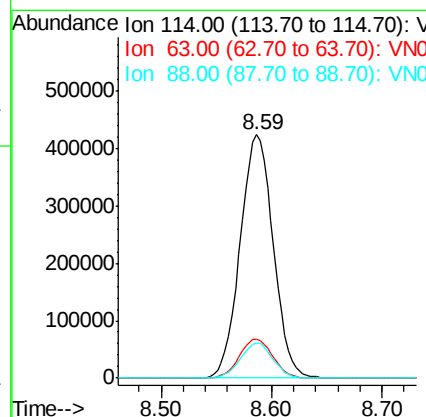
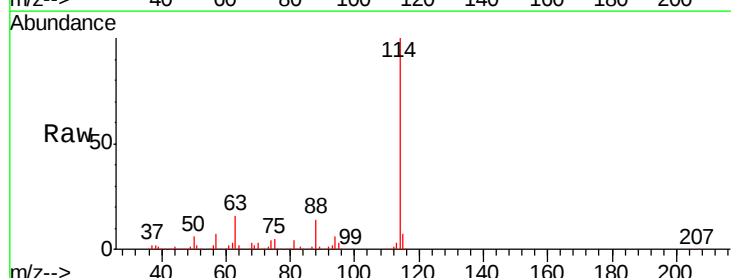
Manual Integrations
 APPROVED

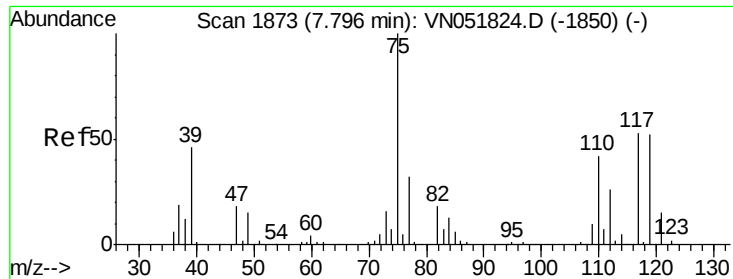
MMDadoda
 10/15/2018 11:27:50 AM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	881797		
63	16.2		16.2	24.2
88	14.2		12.2	18.4





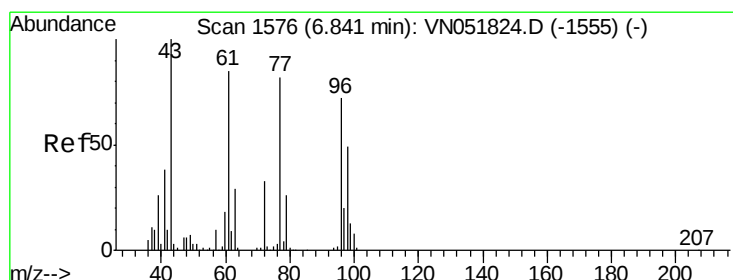
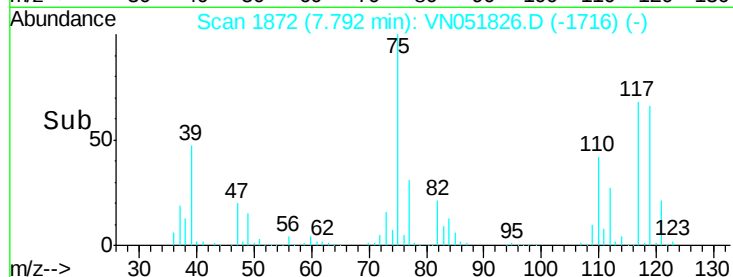
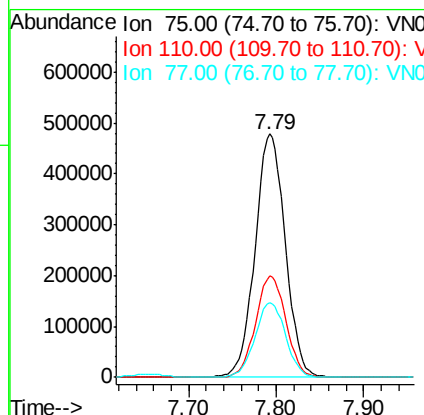
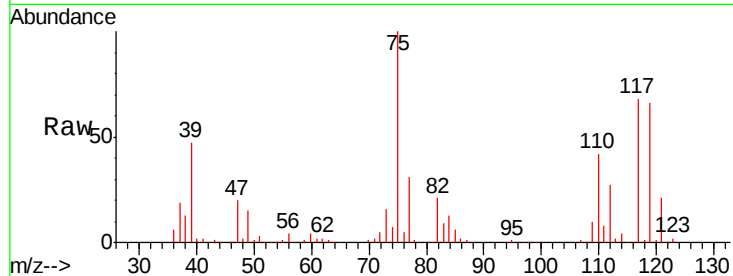
#29
 1,1-Dichloropropene
 Concen: 100.98 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion: 75 Resp: 1144525
 Ion Ratio Lower Upper
 75 100
 110 41.8 0.0 70.8
 77 31.3 0.0 61.6

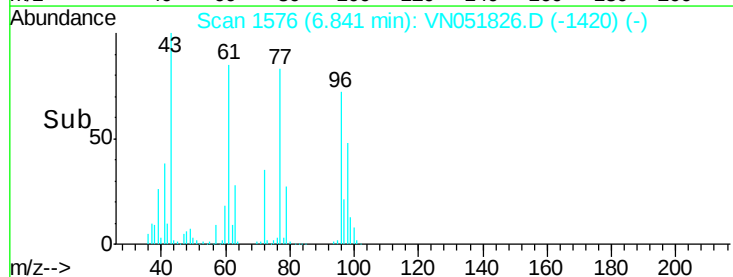
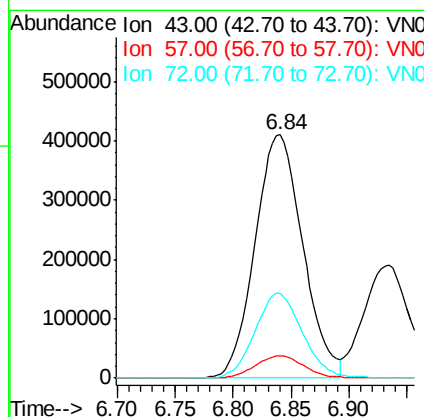
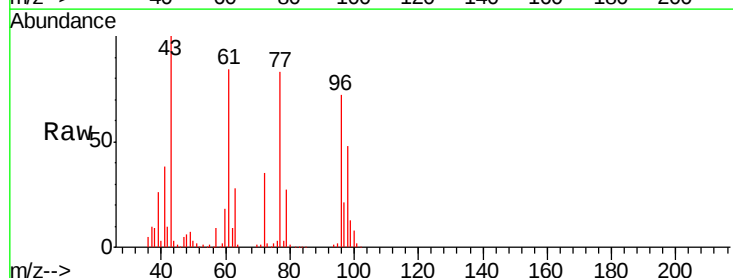
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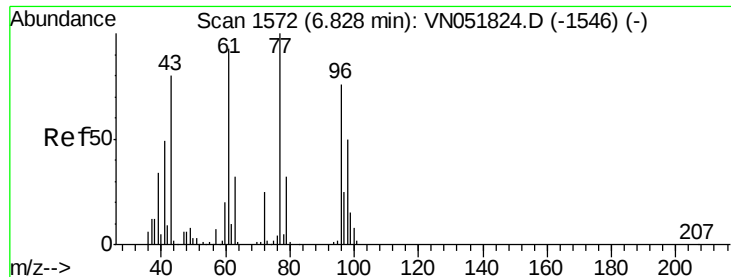
MMDadoda
 10/15/2018 11:27:50 AM



#30
 2-Butanone
 Concen: 488.12 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion: 43 Resp: 1175486
 Ion Ratio Lower Upper
 43 100
 57 9.4 4.5 6.7#
 72 35.0 21.5 32.3#





#31

2,2-Dichloropropane

Concen: 98.71 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 77 Resp: 1332408

Ion Ratio Lower Upper

77 100

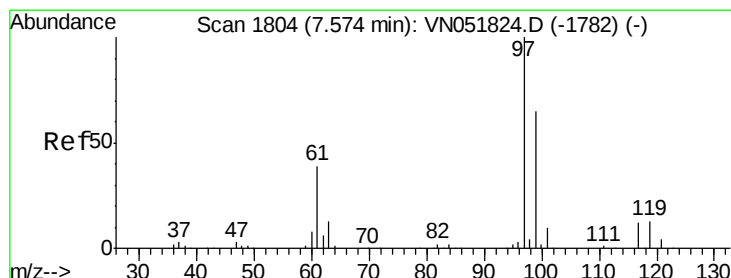
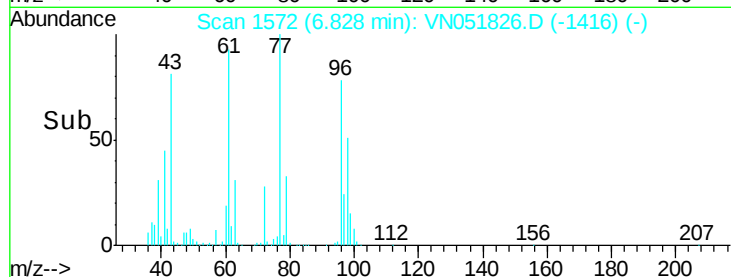
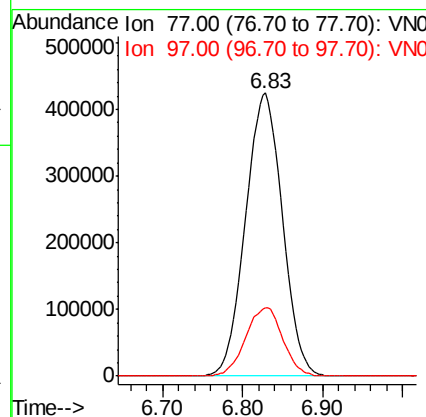
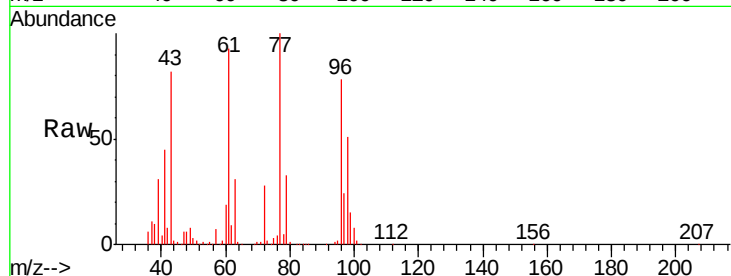
97 24.4 12.0 18.0#

Manual Integrations

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MMDadoda

10/15/2018 11:27:50 AM



#32

1,1,1-Trichloroethane

Concen: 101.76 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

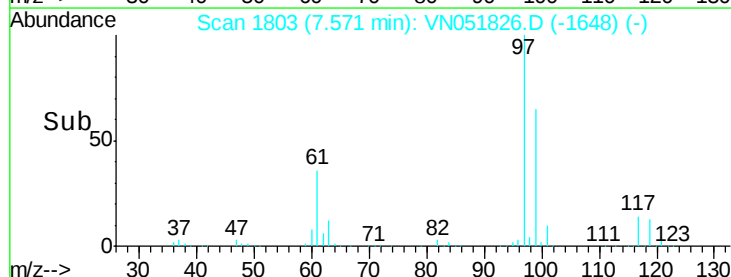
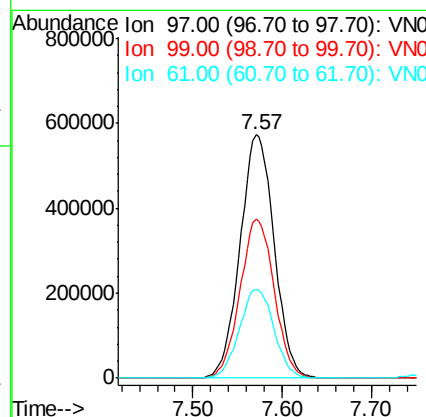
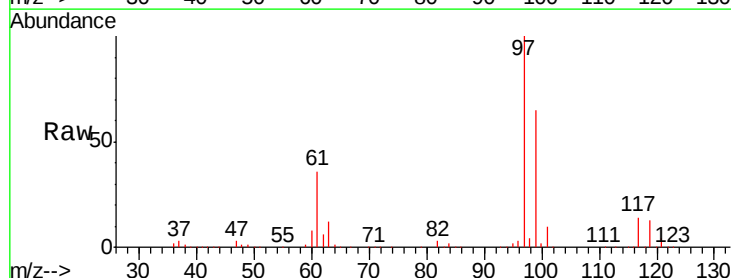
Tgt Ion: 97 Resp: 1523300

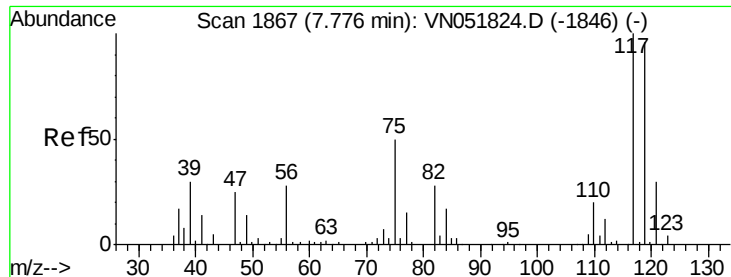
Ion Ratio Lower Upper

97 100

99 65.4 51.6 77.4

61 37.1 37.4 56.0#





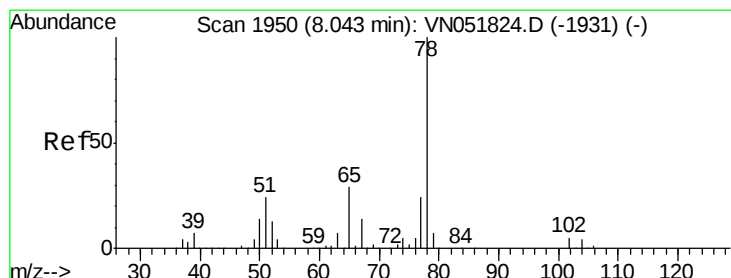
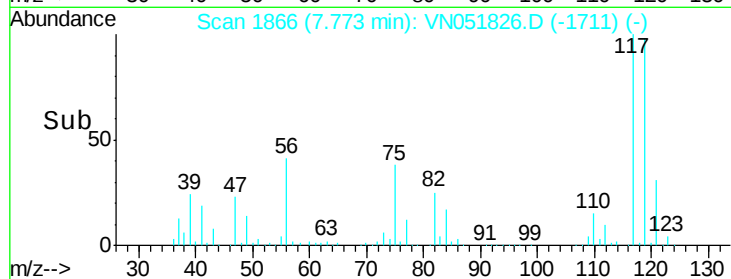
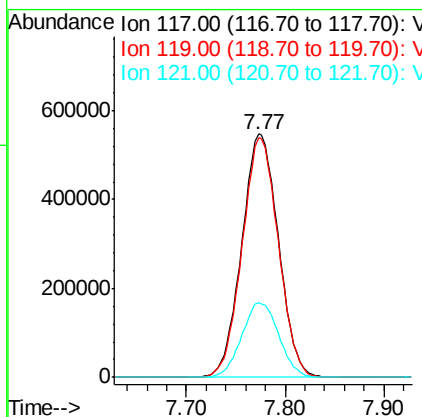
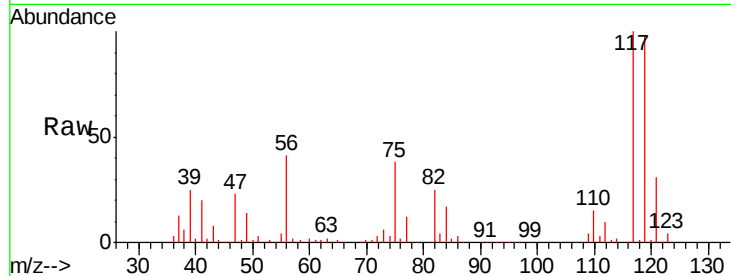
#33
Carbon Tetrachloride
Concen: 104.72 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 117 Resp: 1398827
Ion Ratio Lower Upper
117 100
119 98.3 85.1 127.7
121 30.8 24.2 36.2

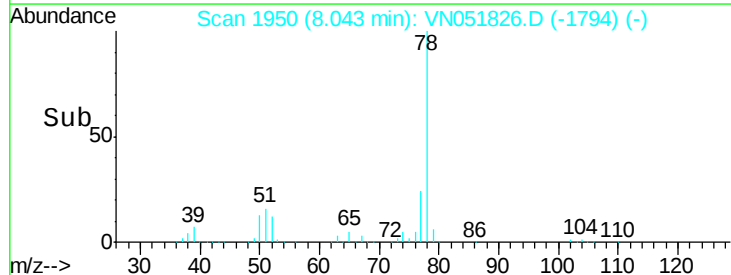
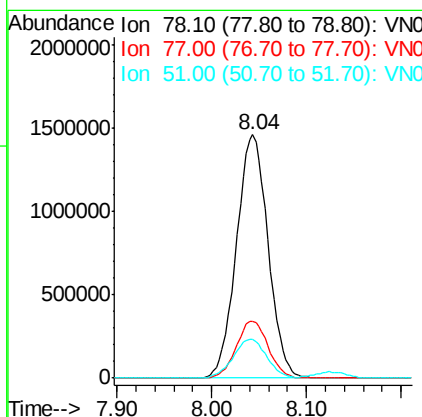
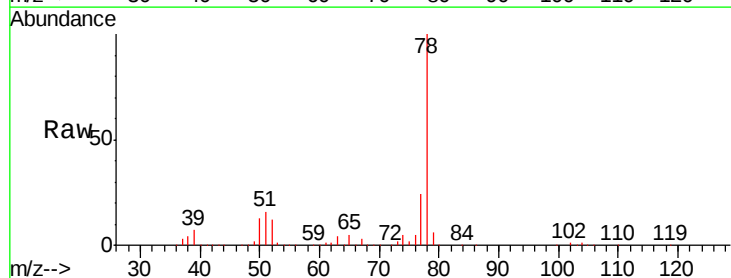
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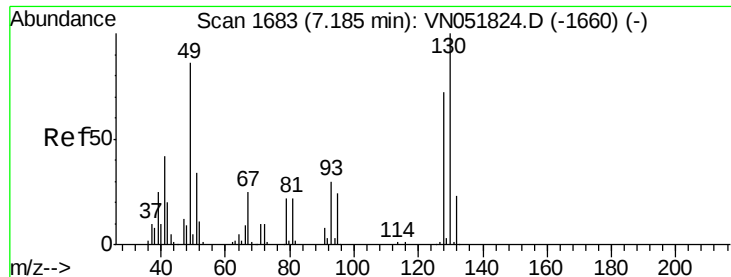
MMDadoda
10/15/2018 11:27:50 AM



#34
Benzene
Concen: 100.89 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion: 78 Resp: 3387691
Ion Ratio Lower Upper
78 100
77 23.5 18.8 28.2
51 15.8 46.2 69.4#





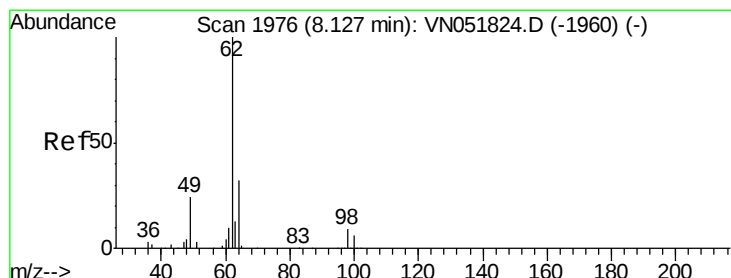
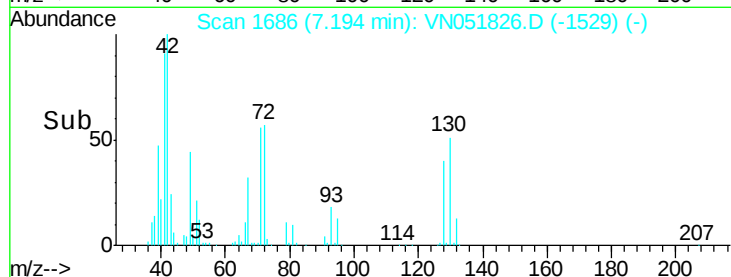
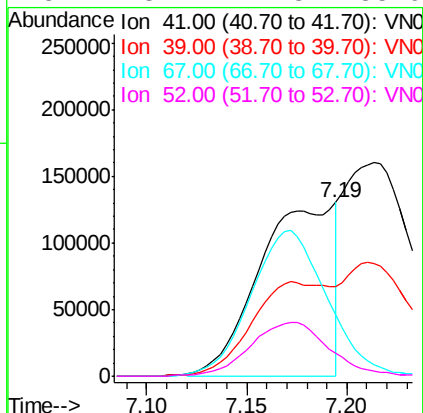
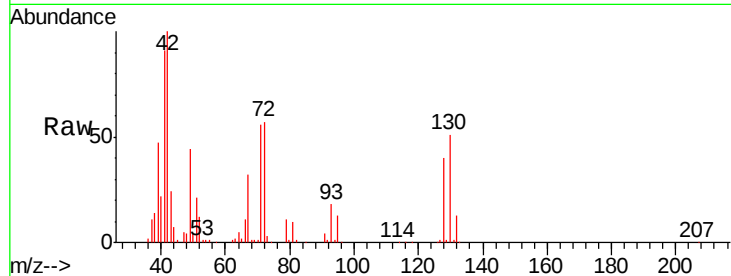
#35
Methacrylonitrile
Concen: 117.06 ug/l m
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	51.8	22.6	67.7	
67	35.2	28.9	86.8	
52	13.1	11.3	33.9	

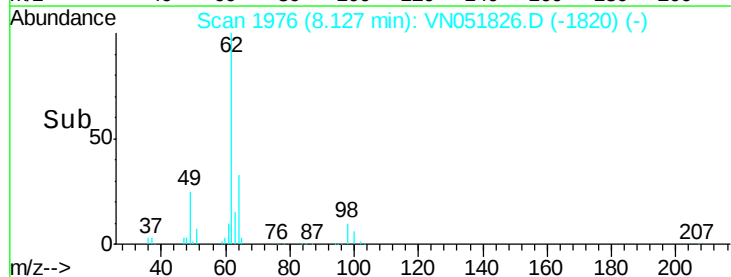
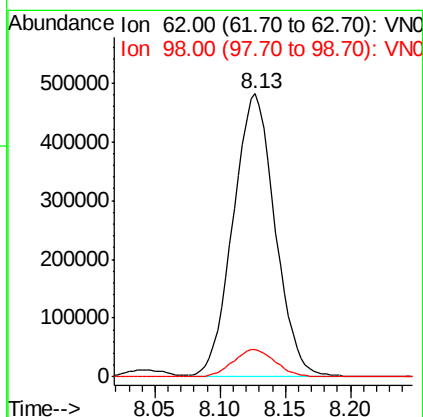
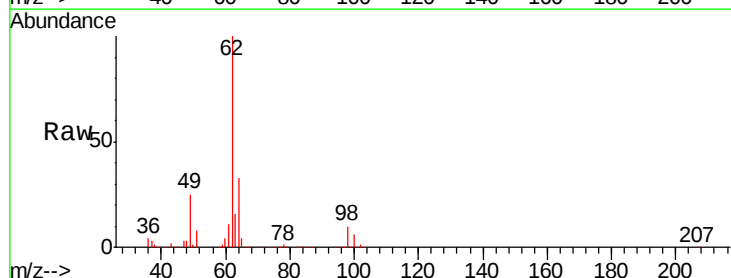
Manual Integrations
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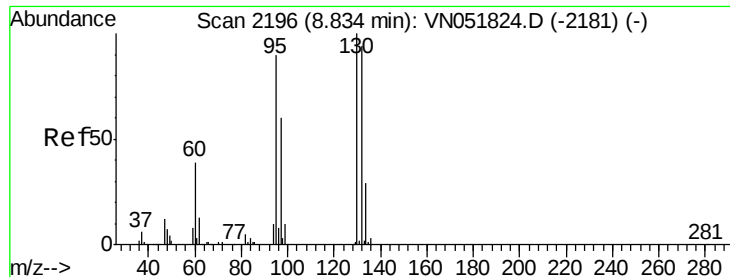
MMDadoda
10/15/2018 11:27:50 AM



#36
1,2-Dichloroethane
Concen: 99.89 ug/l m
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.8	6.9	10.3	





#37

Trichloroethene

Concen: 101.84 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 130 Resp: 1053758

Ion Ratio Lower Upper

130 100

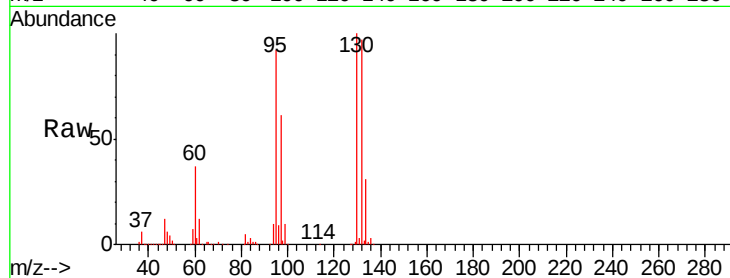
95 91.8 76.4 114.6

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): VN051826.D (-2041) (-)

Ion 94.90 (94.60 to 95.60): VN051826.D (-2041) (-)

8.84

500000

400000

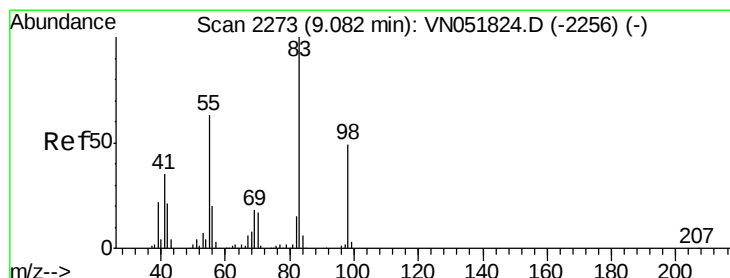
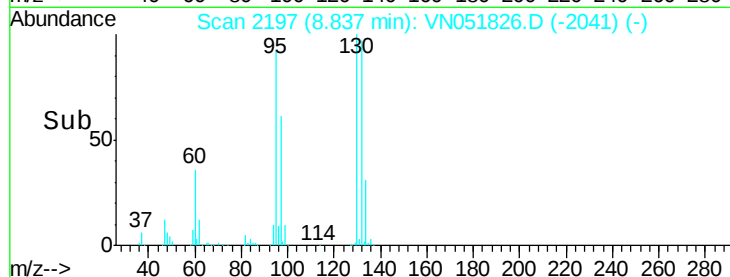
300000

200000

100000

0

Time-->



#38

Methylcyclohexane

Concen: 99.92 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

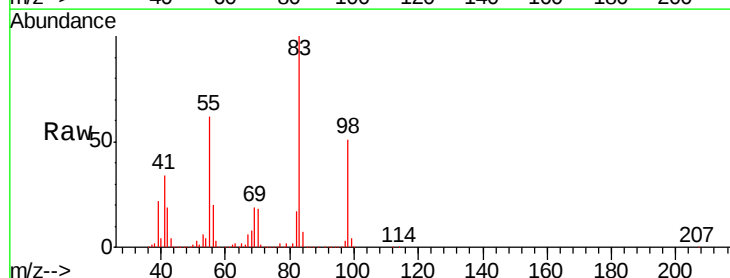
Tgt Ion: 83 Resp: 1457733

Ion Ratio Lower Upper

83 100

55 61.3 43.0 129.2

98 49.7 21.3 63.7



Abundance Ion 83.00 (82.70 to 83.70): VN051826.D (-2116) (-)

Ion 55.00 (54.70 to 55.70): VN051826.D (-2116) (-)

Ion 98.00 (97.70 to 98.70): VN051826.D (-2116) (-)

9.08

800000

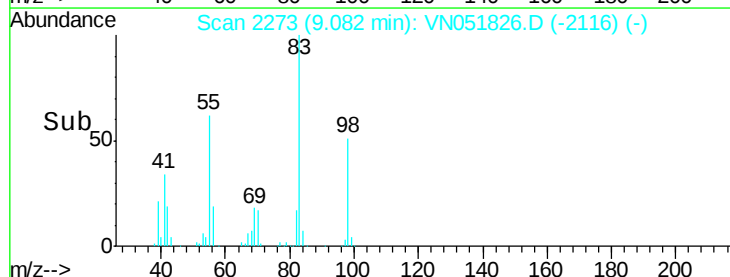
600000

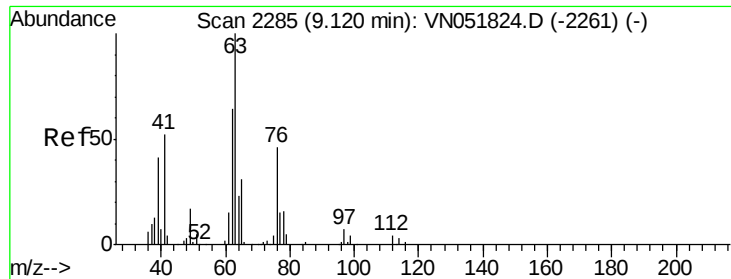
400000

200000

0

Time-->





#39

1,2-Dichloropropane

Concen: 96.65 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 776959

Ion Ratio Lower Upper

63 100

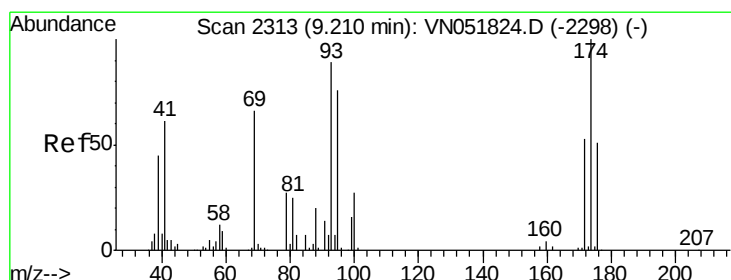
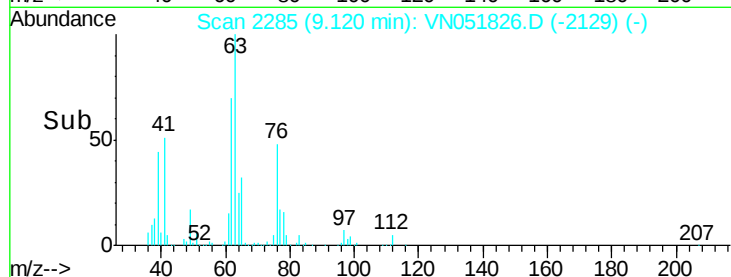
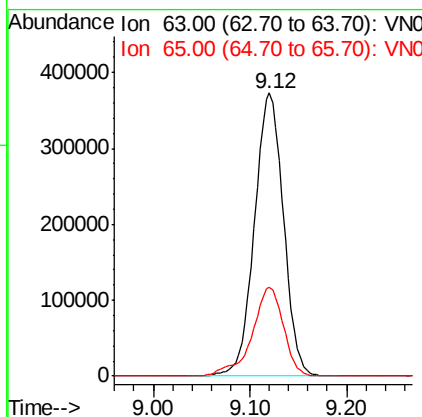
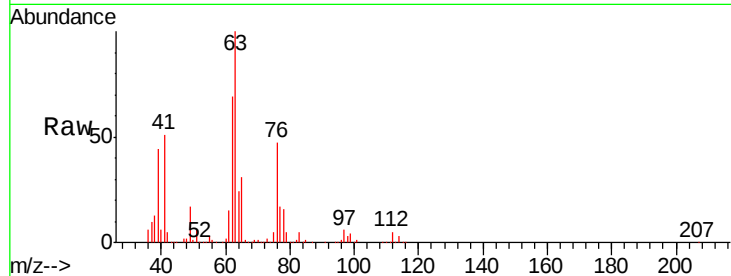
65 31.5 23.2 34.8

Manual Integrations

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MMDadoda

10/15/2018 11:27:50 AM



#40

Dibromomethane

Concen: 102.72 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

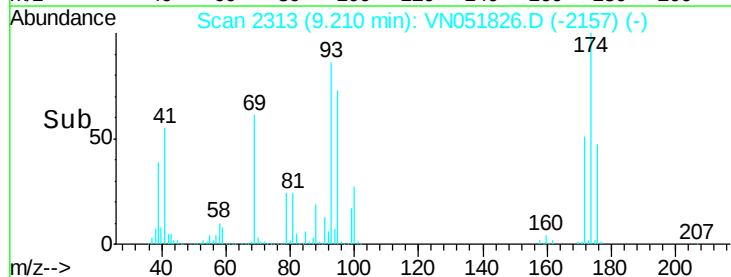
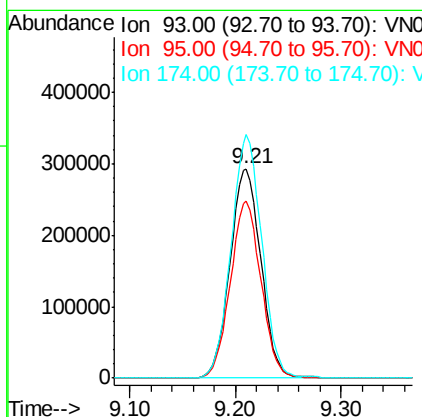
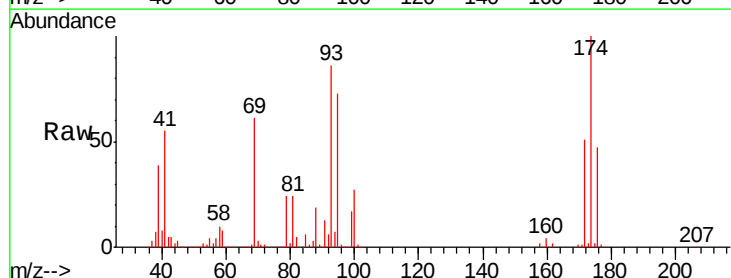
Tgt Ion: 93 Resp: 596335

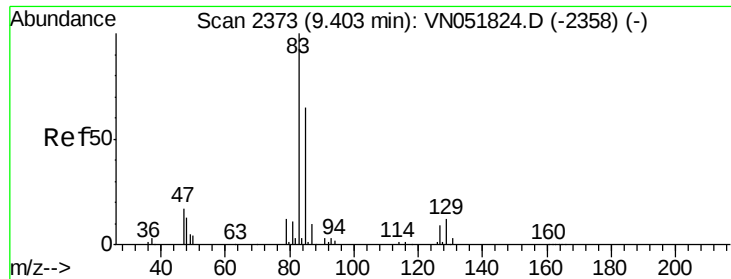
Ion Ratio Lower Upper

93 100

95 83.7 0.0 162.0

174 115.0 0.0 214.0





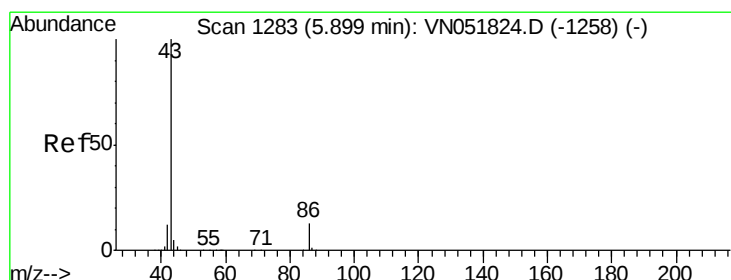
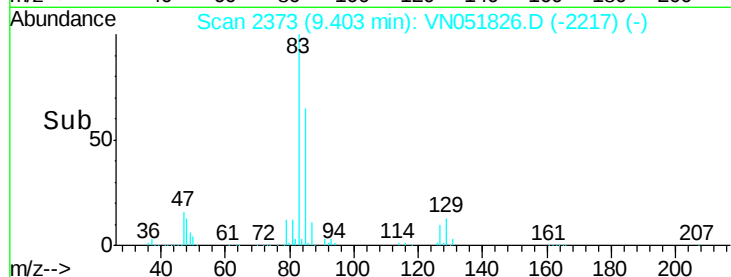
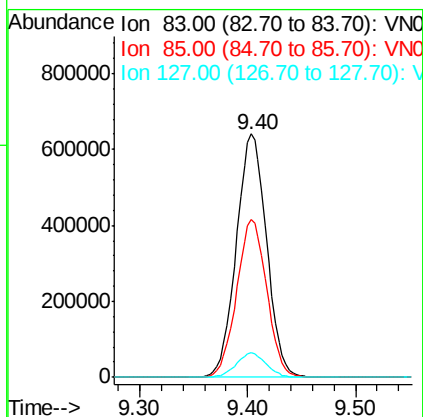
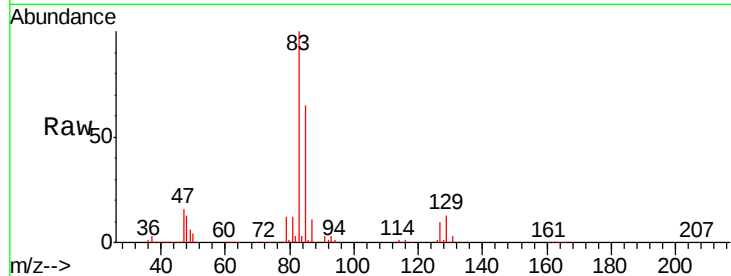
#41
 Bromodichloromethane
 Concen: 105.50 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion: 83 Resp: 1252246
 Ion Ratio Lower Upper
 83 100
 85 64.6 55.7 83.5
 127 9.9 8.2 12.4

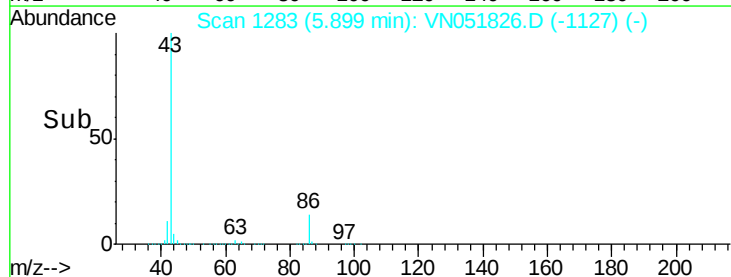
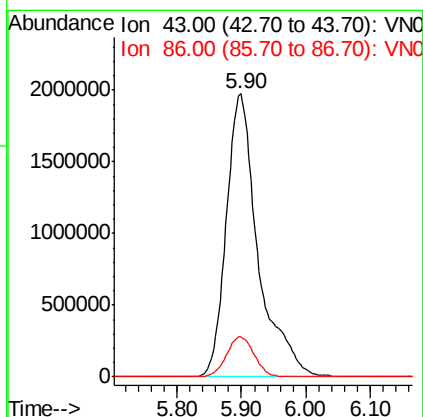
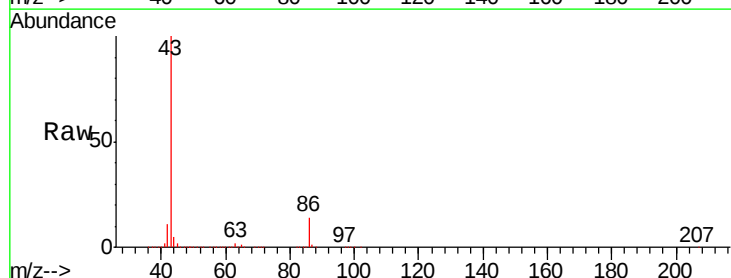
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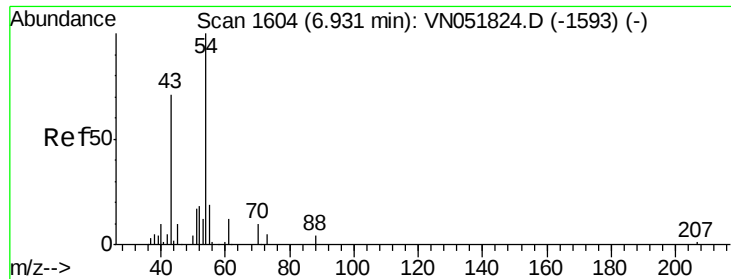
MMDadoda
 10/15/2018 11:27:50 AM



#42
 Vinyl Acetate
 Concen: 512.14 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion: 43 Resp: 6777720
 Ion Ratio Lower Upper
 43 100
 86 12.4 6.5 9.7#





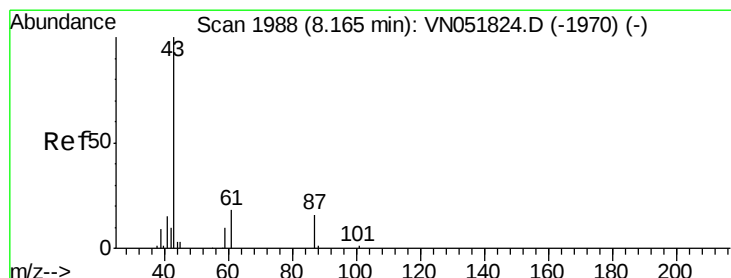
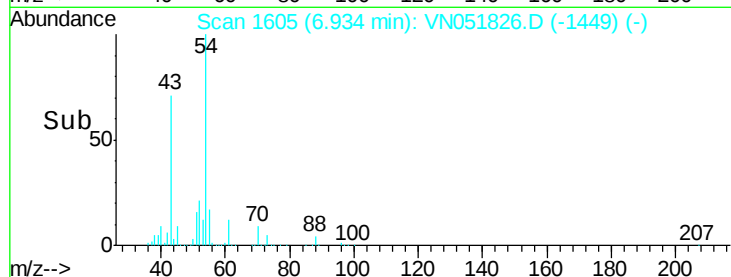
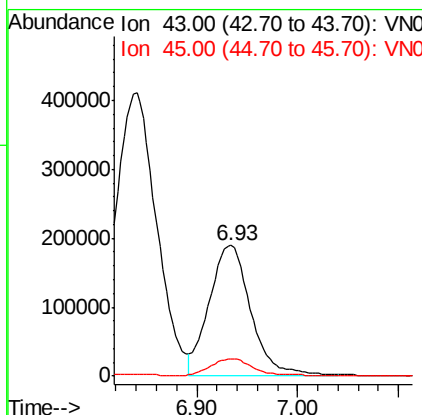
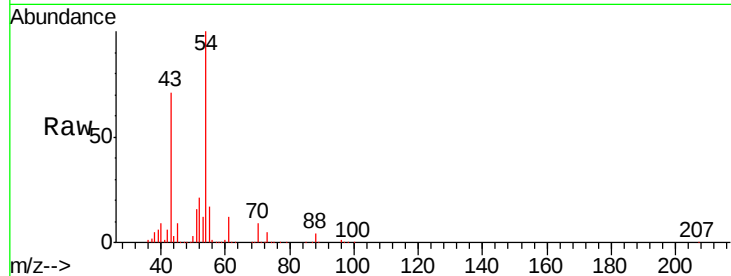
#43
Ethyl Acetate
Concen: 106.60 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 538485
Ion Ratio Lower Upper
43 100
45 14.0 11.0 16.6

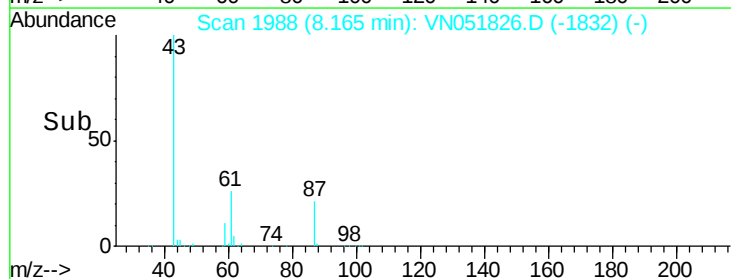
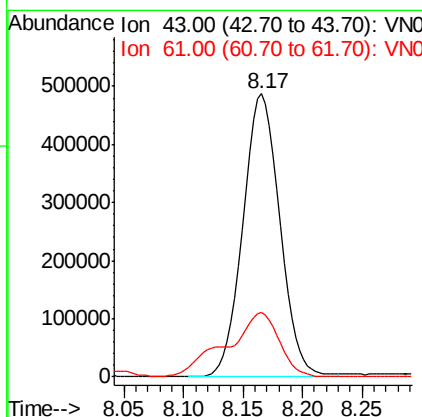
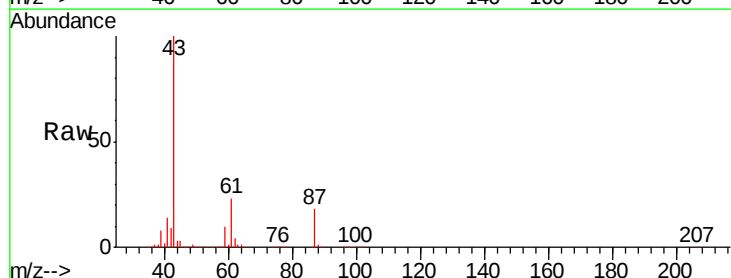
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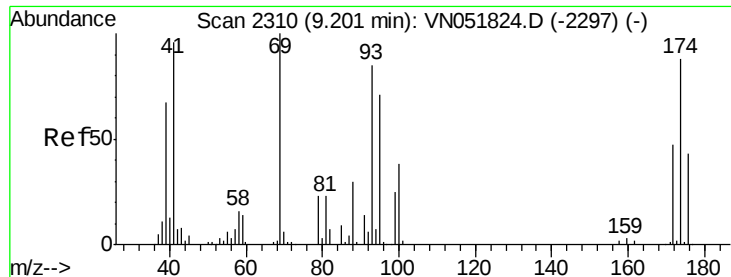
MMDadoda
10/15/2018 11:27:50 AM



#44
Isopropyl Acetate
Concen: 102.69 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion: 43 Resp: 1047946
Ion Ratio Lower Upper
43 100
61 21.7 15.9 23.9





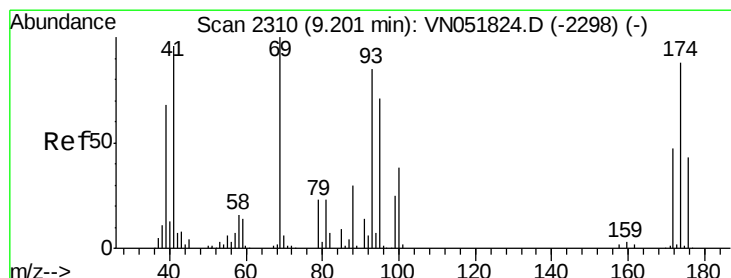
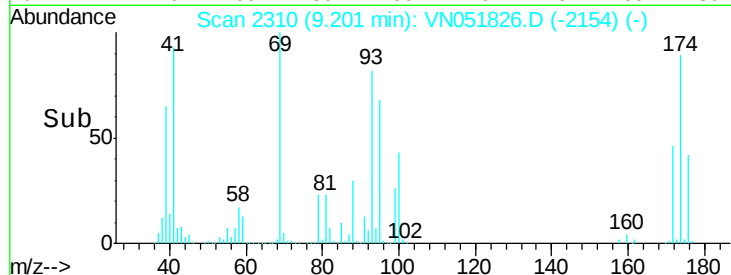
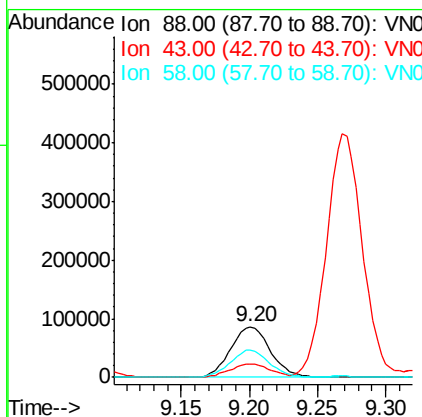
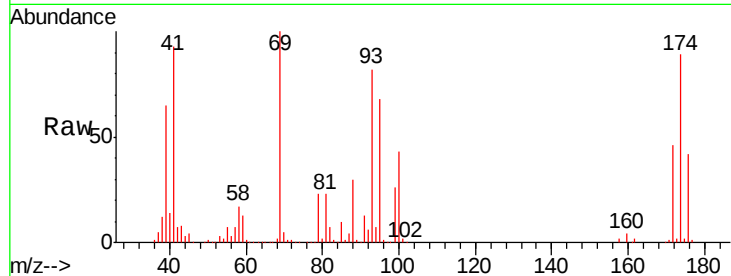
#45
 1,4-Dioxane
 Concen: 2199.86 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	174010		
43	25.6	26.2	39.2#	
58	53.5	65.6	98.4#	

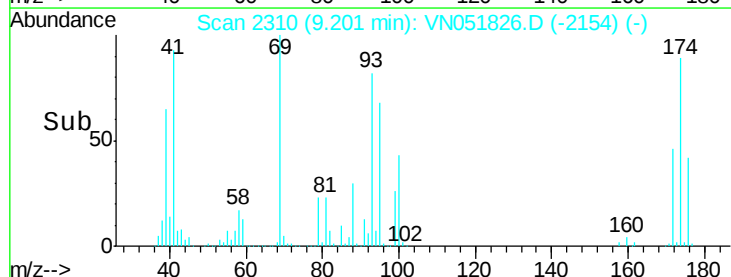
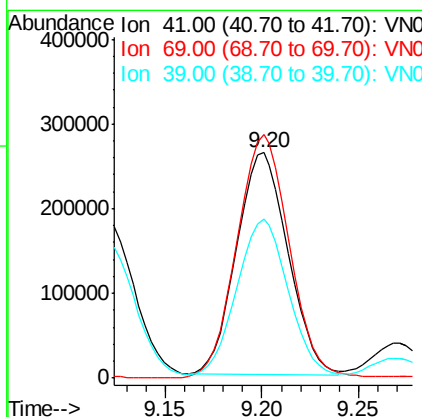
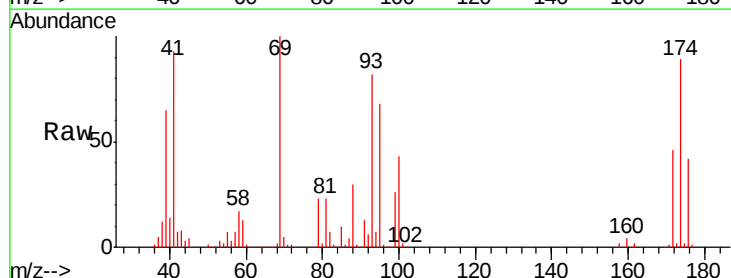
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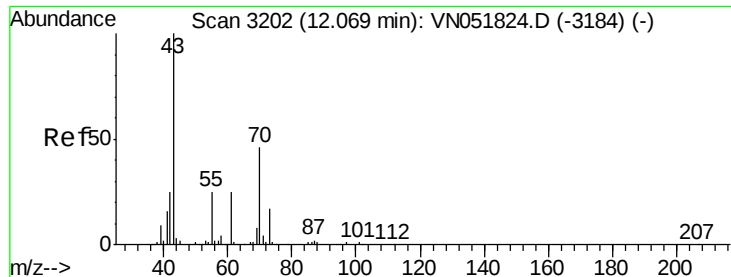
MMDadoda
 10/15/2018 11:27:50 AM



#46
 Methyl methacrylate
 Concen: 104.02 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	485456		
69	109.1	40.7	122.1	
39	70.2	27.3	81.9	





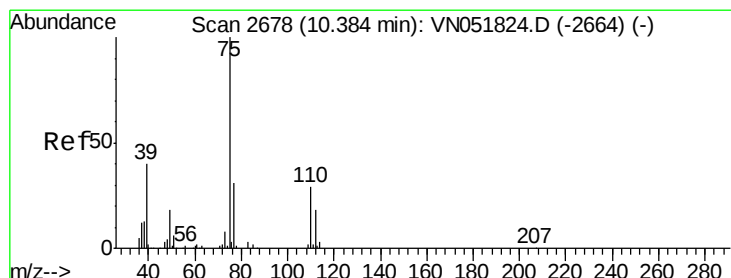
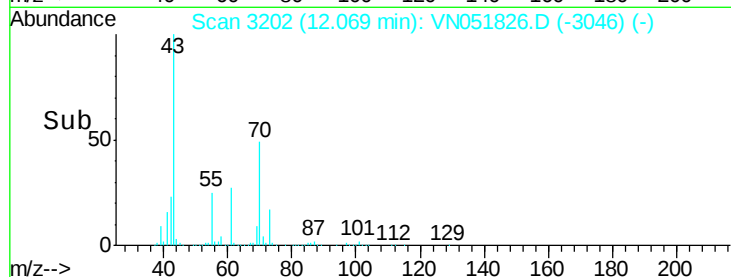
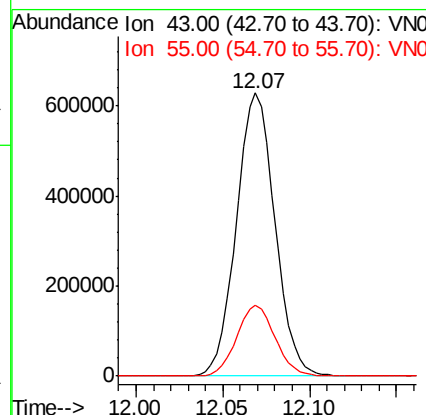
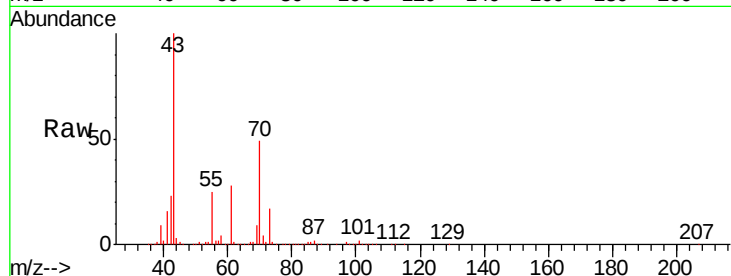
#47
n-amyl Acetate
Concen: 123.00 ug/l m
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 43 Resp: 966354
Ion Ratio Lower Upper
43 100
55 0.0 12.2 18.4#

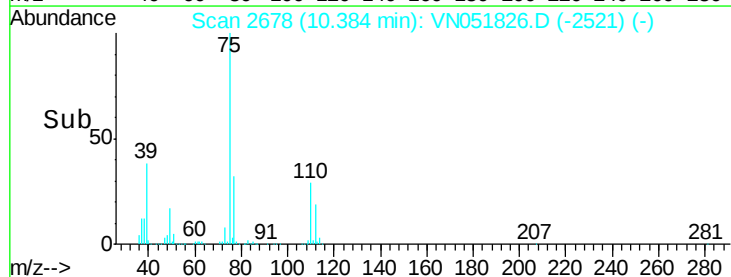
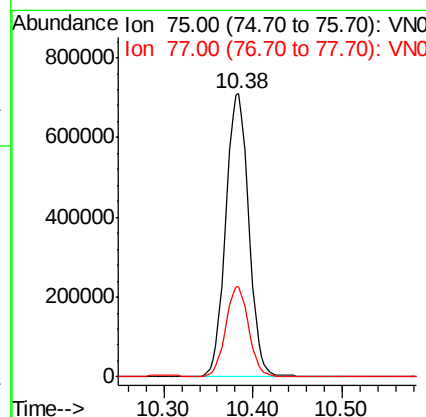
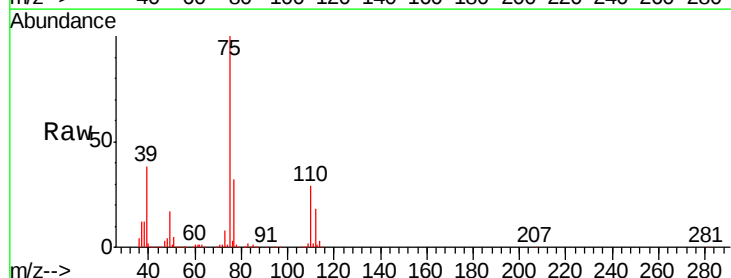
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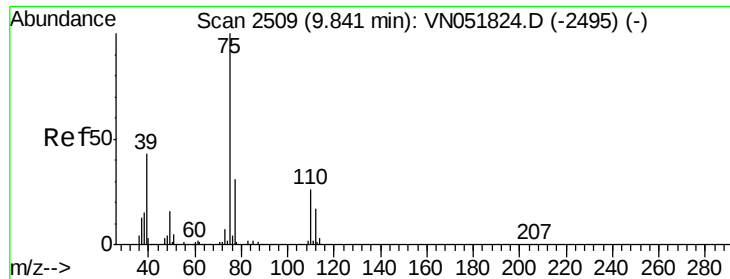
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#48
t-1,3-Dichloropropene
Concen: 113.70 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion: 75 Resp: 1274473
Ion Ratio Lower Upper
75 100
77 31.6 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 109.98 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 1381122

Ion Ratio Lower Upper

75 100

77 31.6 23.2 34.8

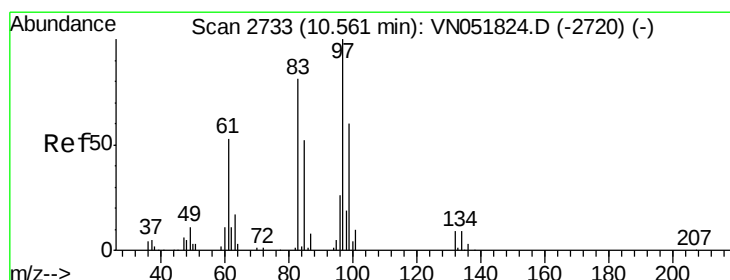
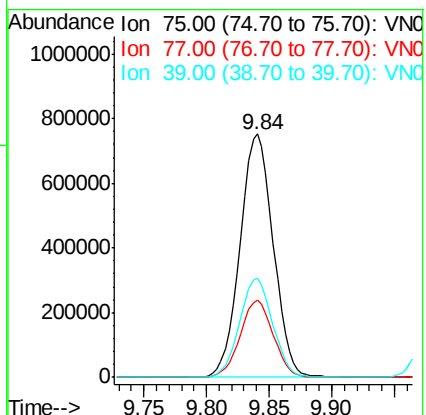
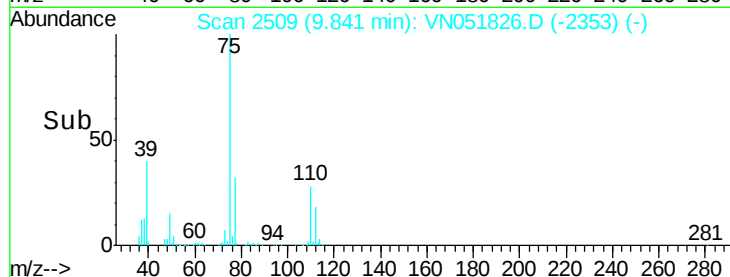
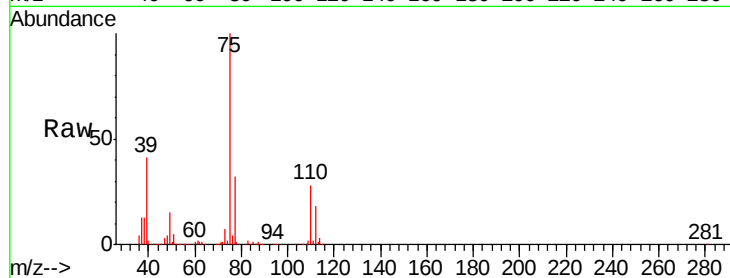
39 40.5 34.6 52.0

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#50

1,1,2-Trichloroethane

Concen: 105.33 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Tgt Ion: 97 Resp: 835091

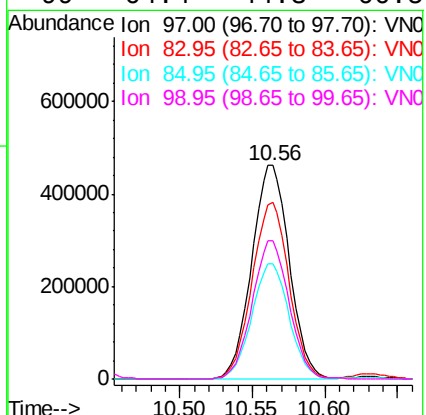
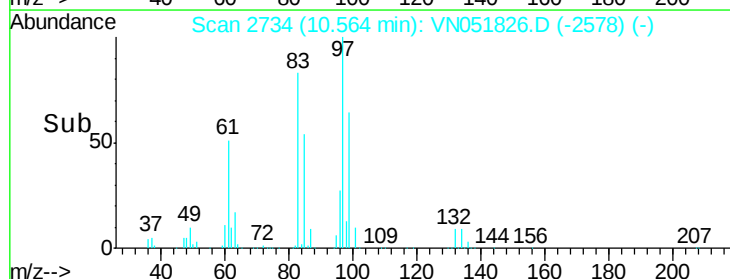
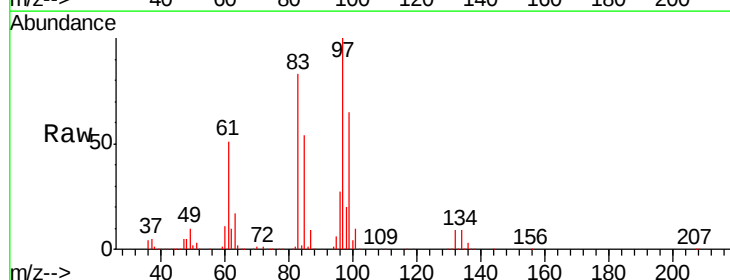
Ion Ratio Lower Upper

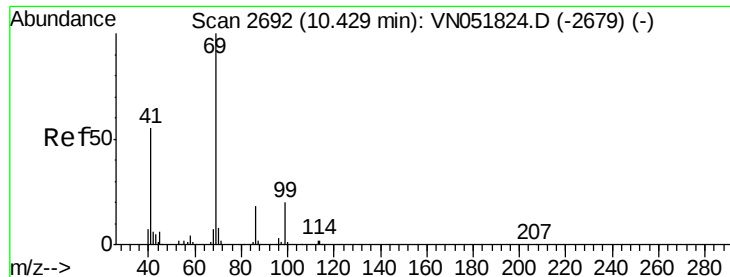
97 100

83 82.8 68.2 102.4

85 54.2 42.5 63.7

99 64.4 44.3 66.5





#51

Ethyl methacrylate

Concen: 109.69 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 69 Resp: 976692
Ion Ratio Lower Upper

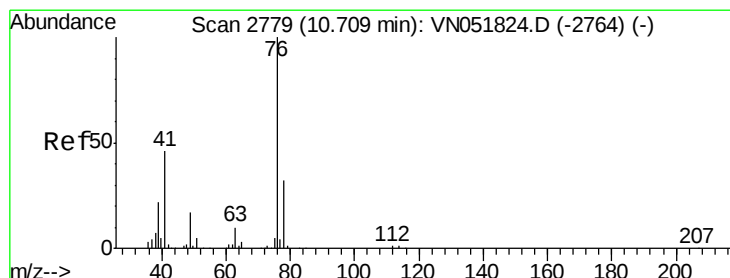
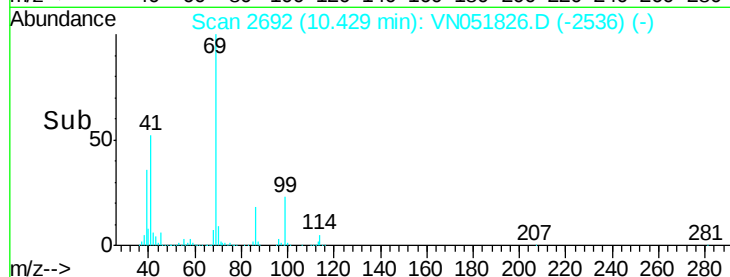
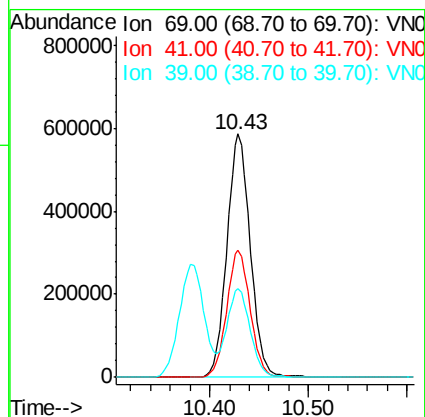
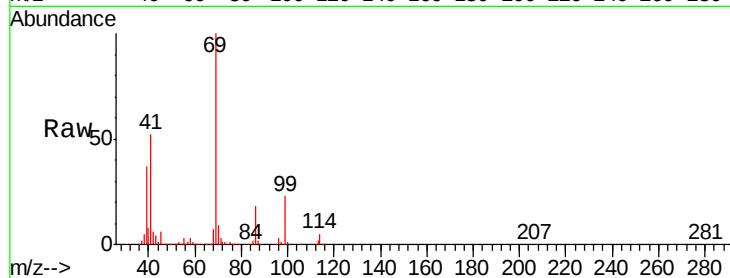
69 100

41 52.0 34.4 103.1

39 36.4 16.3 48.8

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#52

1,3-Dichloropropane

Concen: 103.37 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

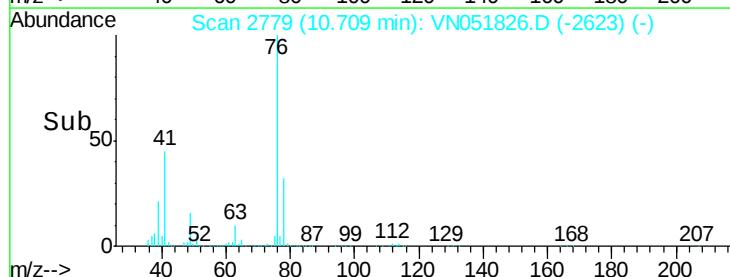
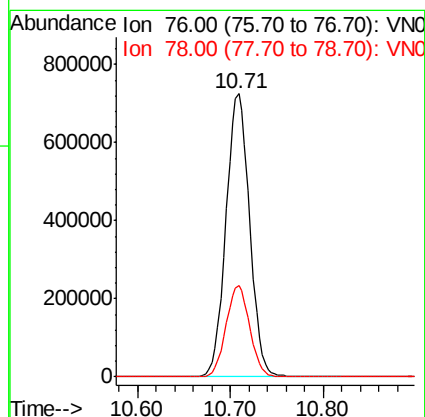
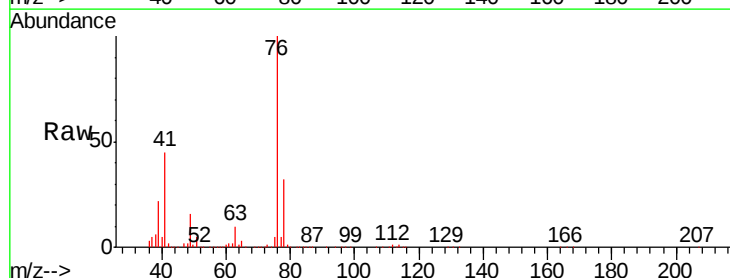
Lab File: VN051826.D

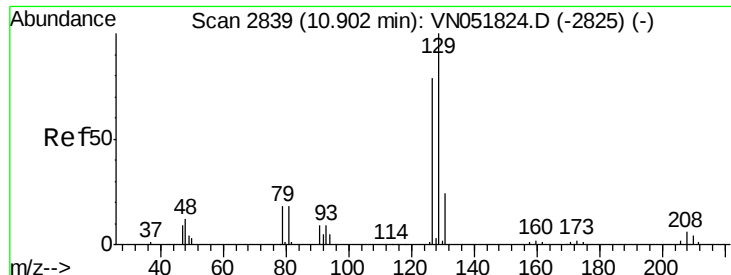
Acq: 12 Oct 2018 9:27

Tgt Ion: 76 Resp: 1279729
Ion Ratio Lower Upper

76 100

78 32.4 0.0 67.6





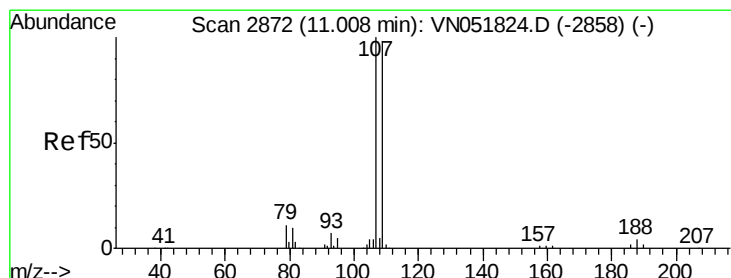
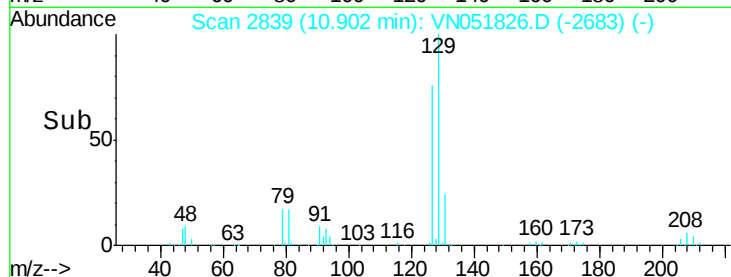
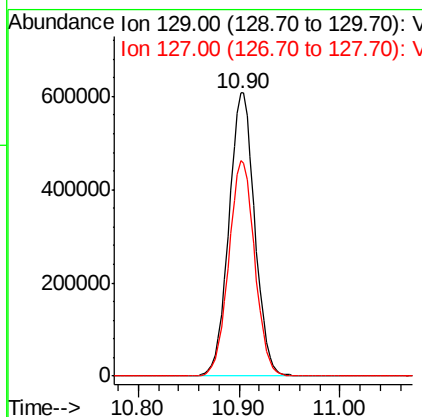
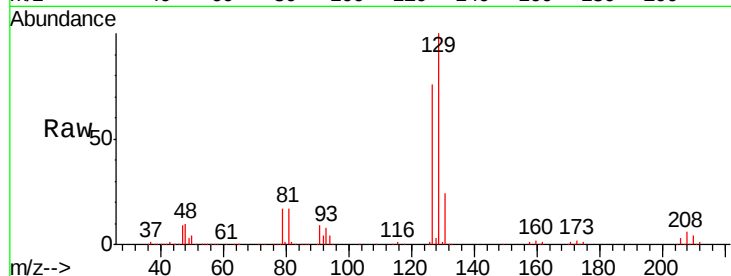
#53
Dibromochloromethane
Concen: 116.03 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:129 Resp: 1086678
Ion Ratio Lower Upper
129 100
127 76.4 40.2 120.5

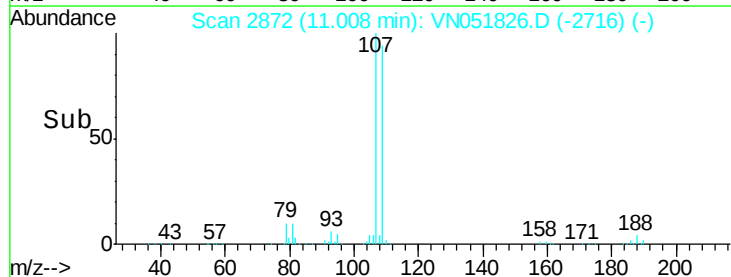
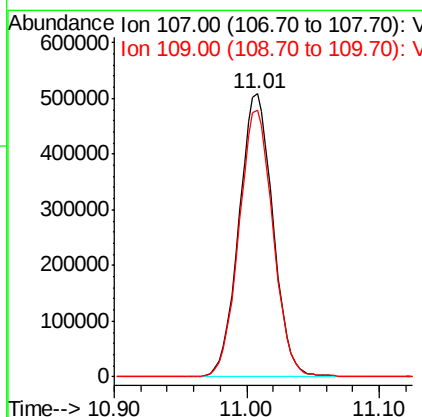
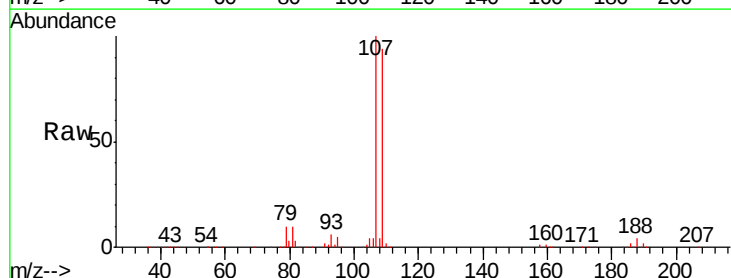
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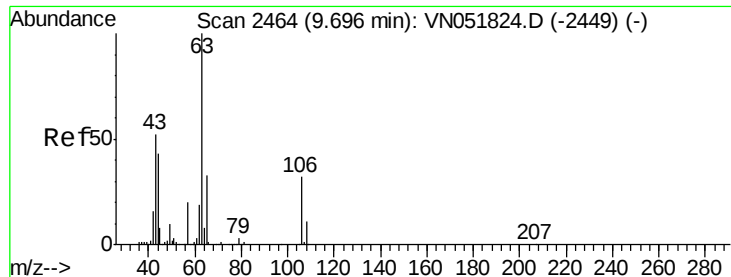
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#54
1,2-Dibromoethane
Concen: 111.05 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion:107 Resp: 903851
Ion Ratio Lower Upper
107 100
109 94.8 77.4 116.0





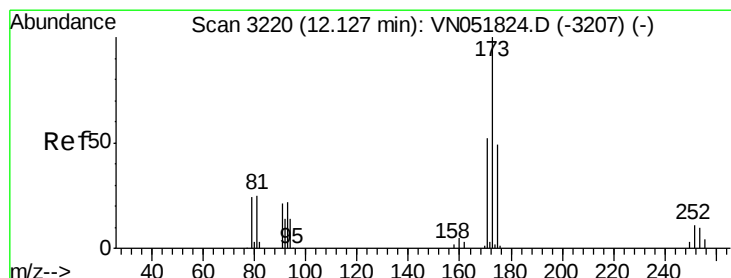
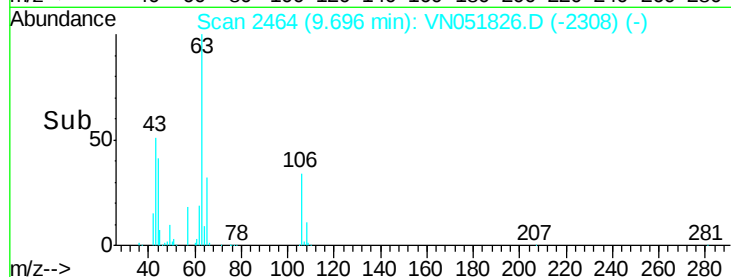
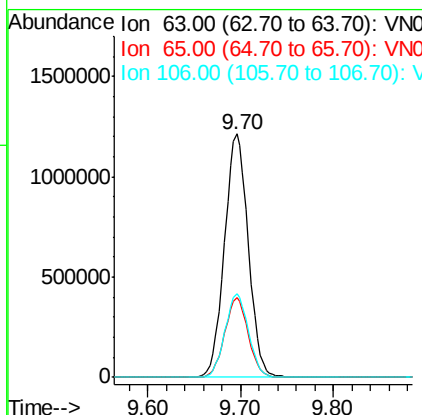
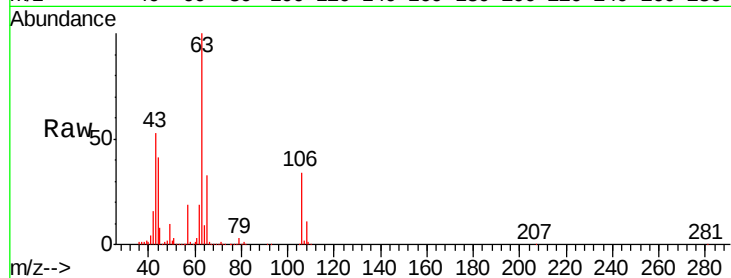
#55
 2-Chloroethyl vinyl ether
 Concen: 583.45 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion: 63 Resp: 2159376
 Ion Ratio Lower Upper
 63 100
 65 32.4 25.4 38.0
 106 34.0 21.2 31.8#

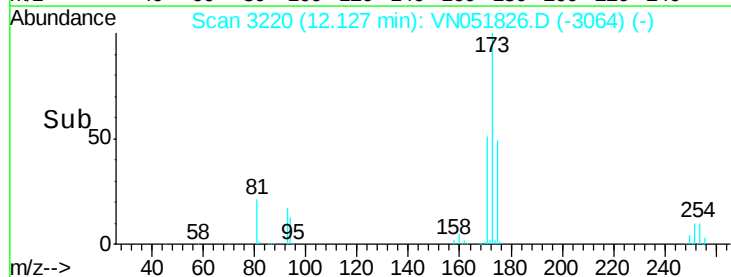
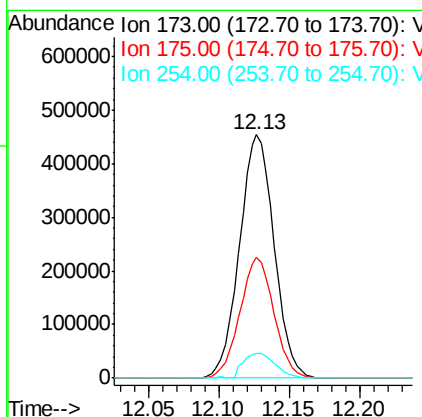
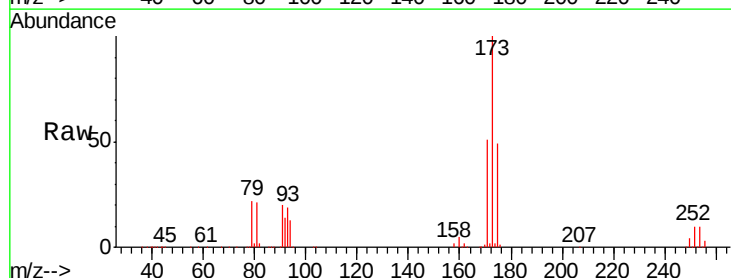
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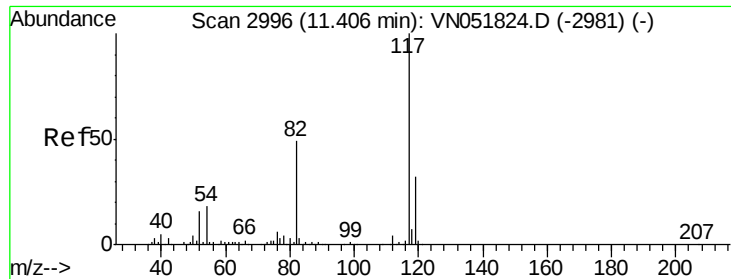
MMDadoda
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#56
 Bromoform
 Concen: 136.85 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion: 173 Resp: 779496
 Ion Ratio Lower Upper
 173 100
 175 48.8 35.8 53.8
 254 9.5 8.6 13.0





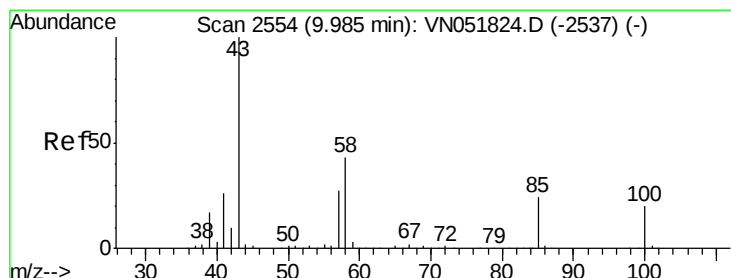
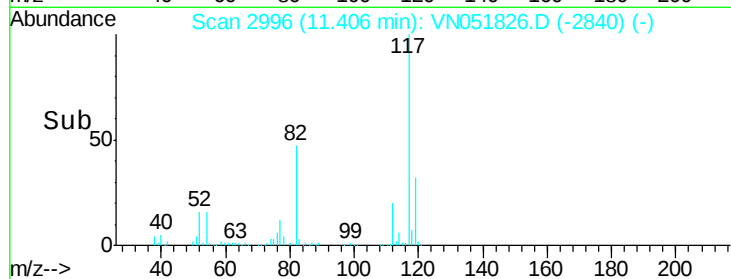
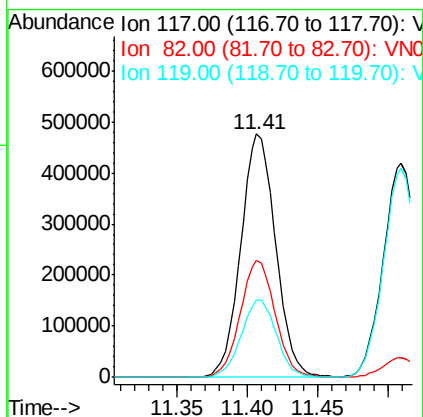
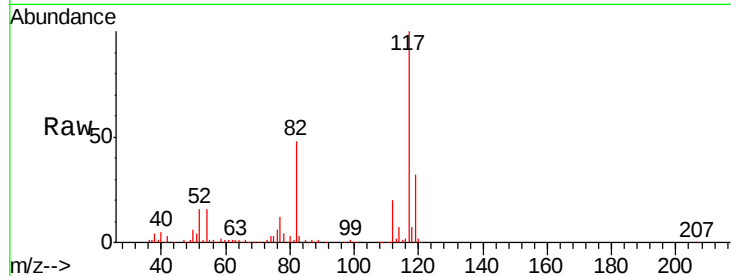
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	825615		
82	48.2		44.1	66.1
119	32.2		25.8	38.8

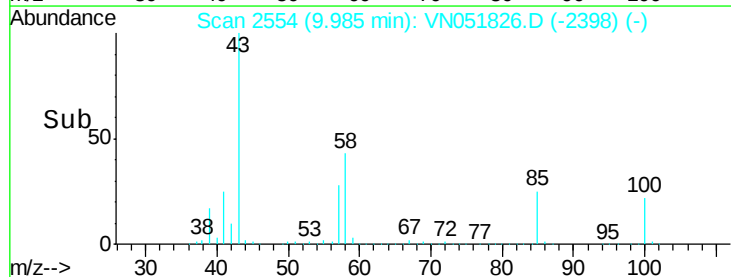
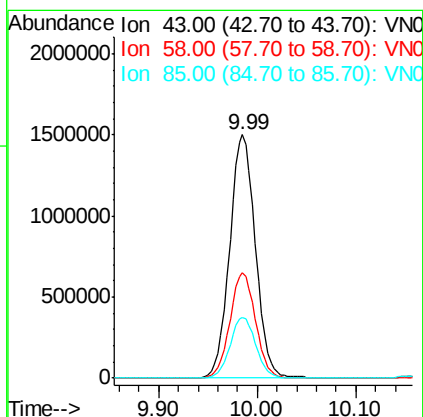
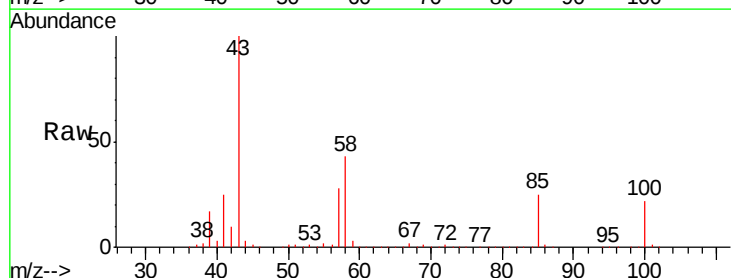
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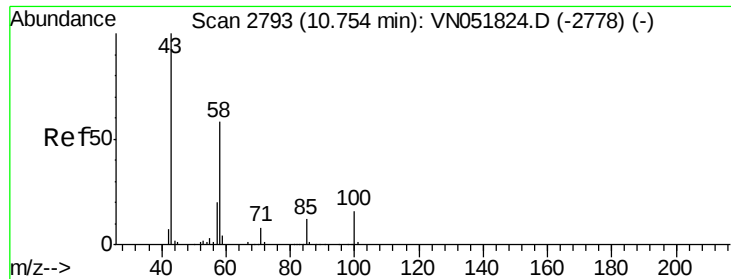
MMDadoda
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#58
4-Methyl-2-Pentanone
Concen: 488.69 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	2727139		
58	43.3		29.3	43.9
85	25.1		12.6	18.8#





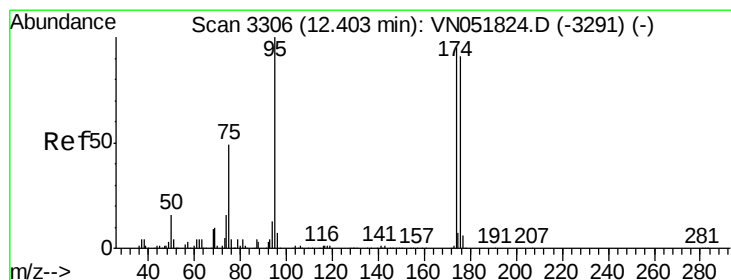
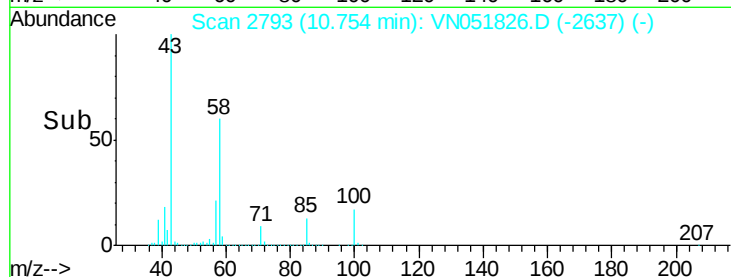
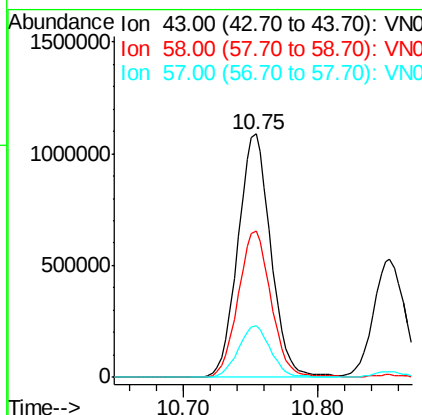
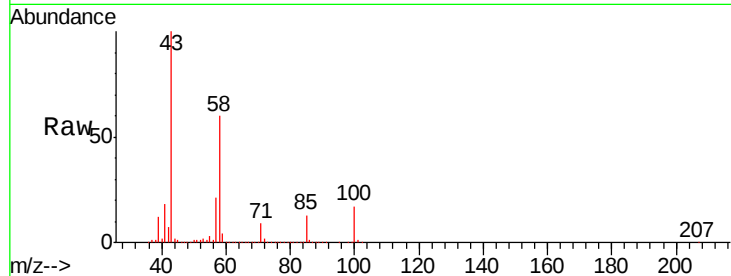
#59
2-Hexanone
Concen: 493.62 ug/l m
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 43 Resp: 1849924
Ion Ratio Lower Upper
43 100
58 0.0 41.3 61.9#
57 0.0 13.4 20.0#

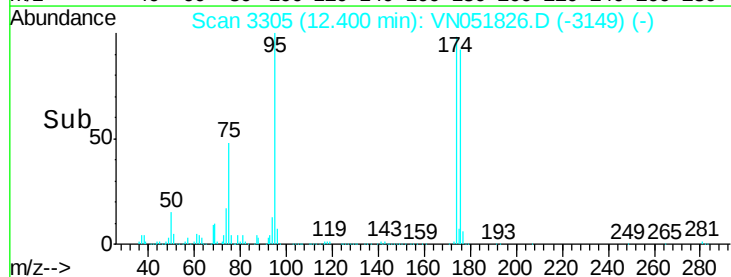
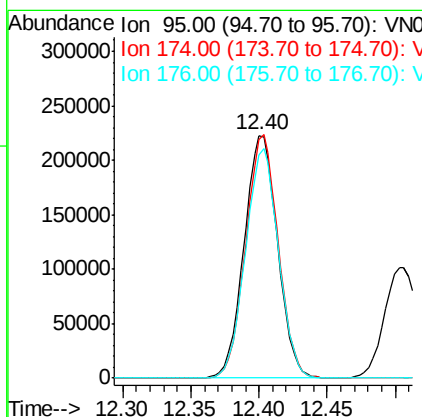
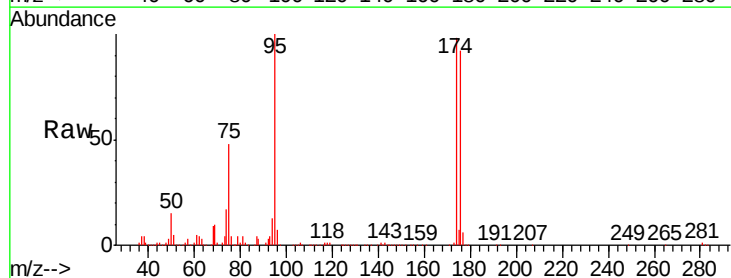
Manual Integrations
APPROVED

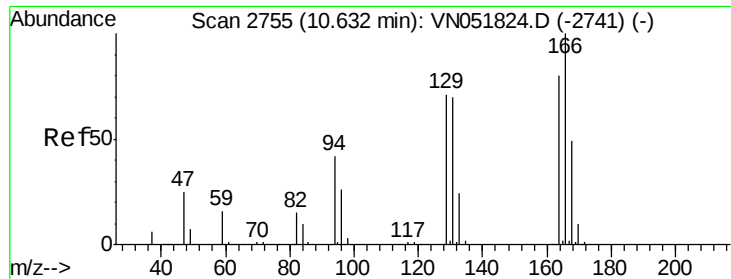
MMDadoda
10/15/2018 11:27:50 AM



#60
4-Bromofluorobenzene
Concen: 493.62 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion: 95 Resp: 377461
Ion Ratio Lower Upper
95 100
174 97.9 73.5 110.3
176 93.6 70.2 105.2





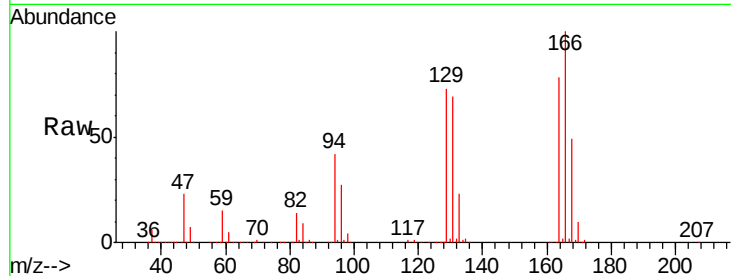
#61
Tetrachloroethene
Concen: 96.98 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

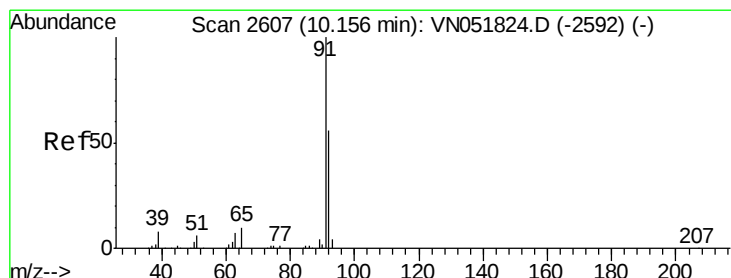
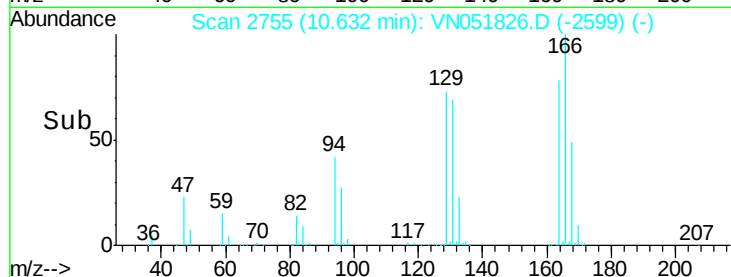
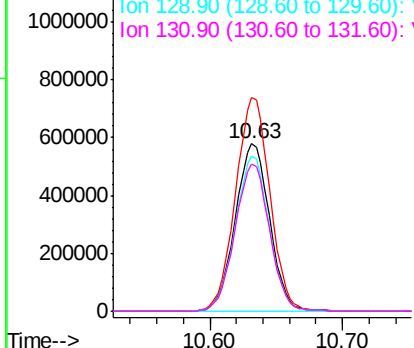
Tgt Ion:164 Resp: 1038360
Ion Ratio Lower Upper
164 100
166 127.6 98.7 148.1
129 92.9 69.6 104.4
131 87.8 72.4 108.6

Manual Integrations
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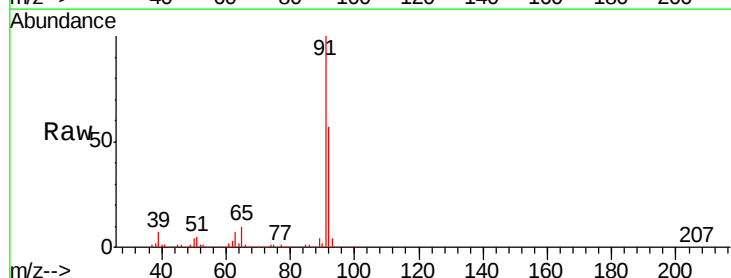


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

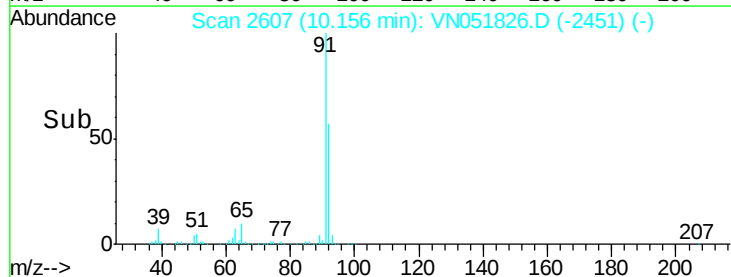
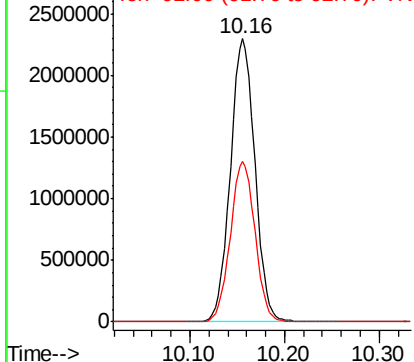


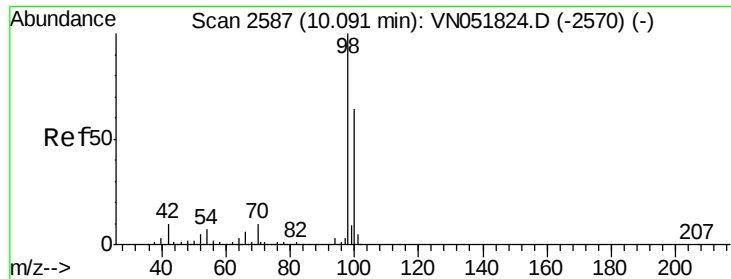
#62
Toluene
Concen: 101.12 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion: 91 Resp: 4135693
Ion Ratio Lower Upper
91 100
92 57.0 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 101.12 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 98 Resp: 1059043

Ion Ratio Lower Upper

98 100

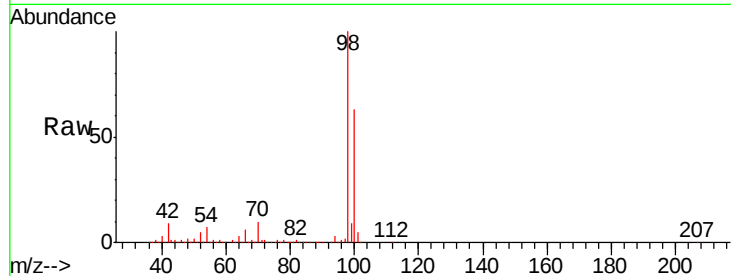
100 63.6 50.8 76.2

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Abundance Ion 98.00 (97.70 to 98.70): VN051824.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051824.D (-2570) (-)

10.09

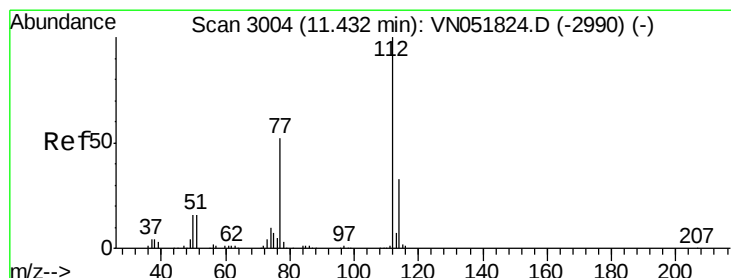
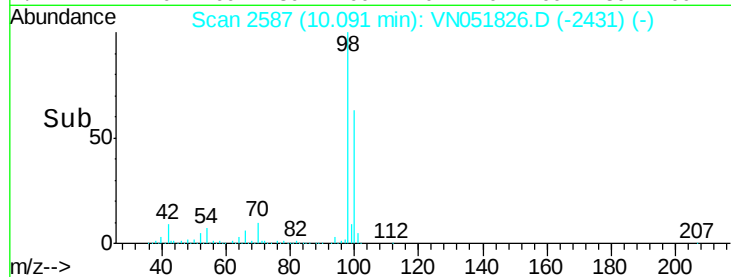
600000

400000

200000

0

Time-->



#64

Chlorobenzene

Concen: 104.89 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN051826.D

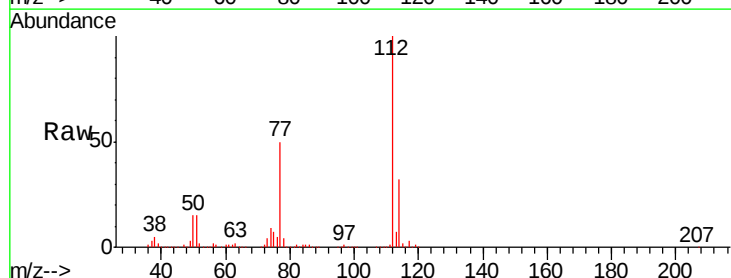
Acq: 12 Oct 2018 9:27

Tgt Ion: 112 Resp: 2760186

Ion Ratio Lower Upper

112 100

114 32.2 27.5 41.3



Abundance Ion 112.00 (111.70 to 112.70): VN051824.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN051824.D (-2990) (-)

11.43

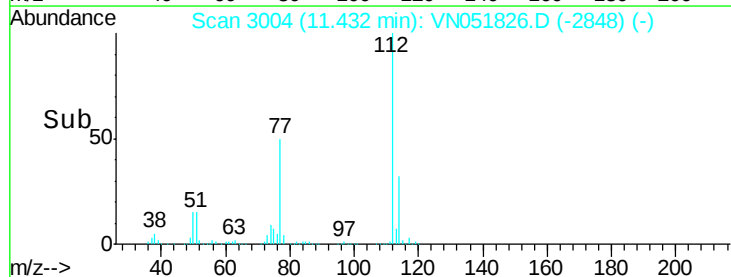
1500000

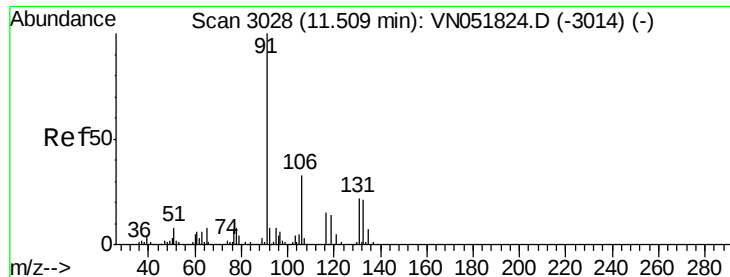
1000000

500000

0

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 107.23 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:131 Resp: 1072264

Ion Ratio Lower Upper

131 100

133 95.5 0.0 190.4

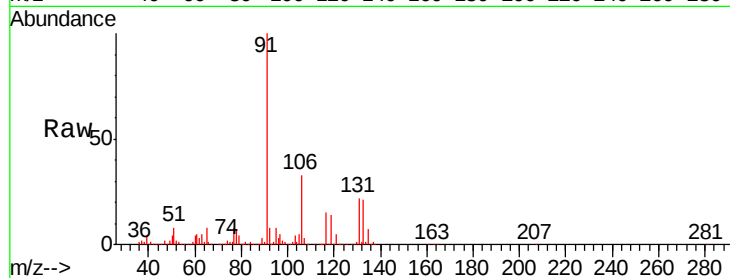
119 65.3 0.0 128.0

Manual Integrations

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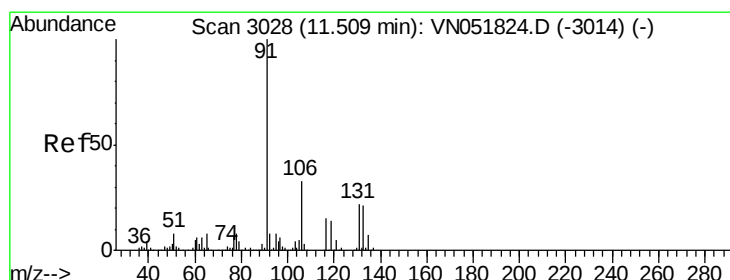
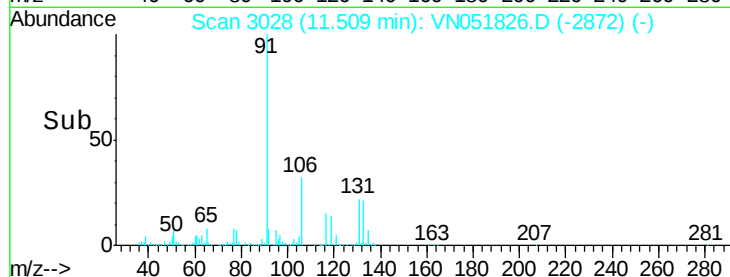
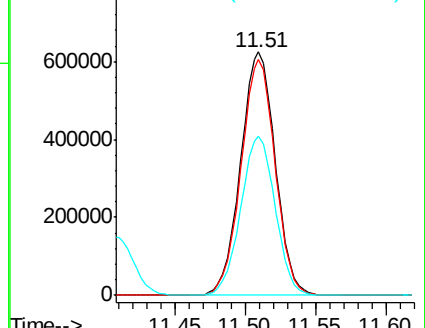
10/15/2018 11:27:50 AM



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 104.42 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051826.D

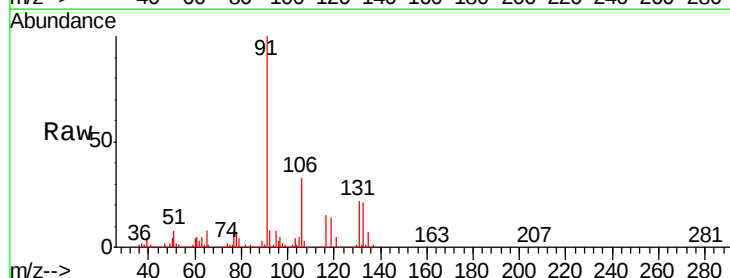
Acq: 12 Oct 2018 9:27

Tgt Ion: 91 Resp: 4662141

Ion Ratio Lower Upper

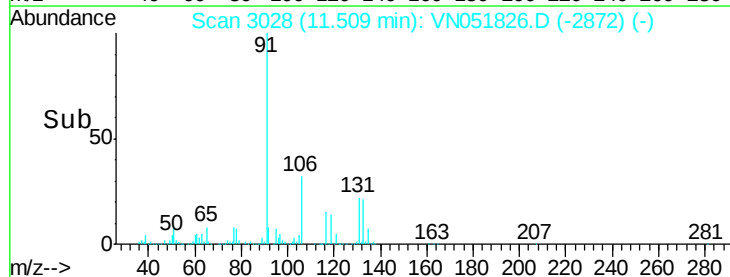
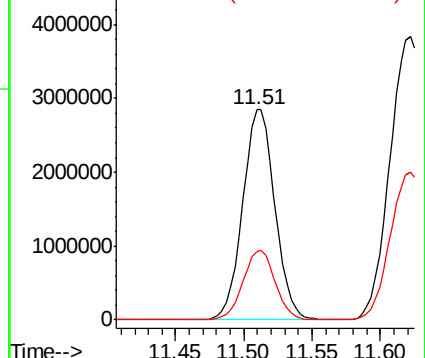
91 100

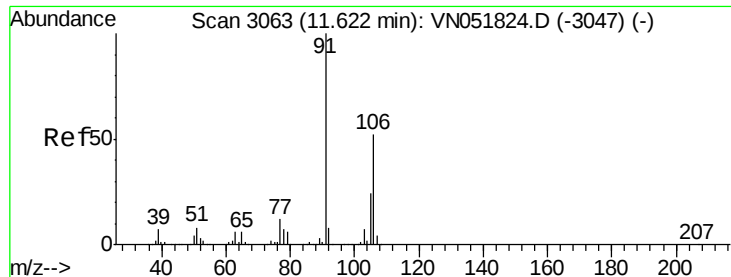
106 32.8 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





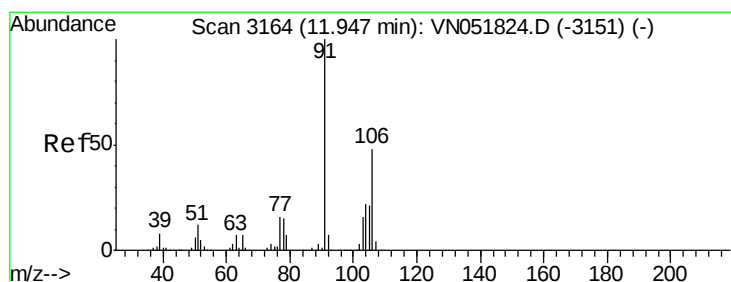
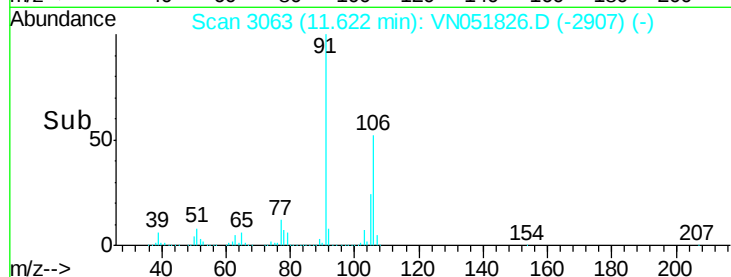
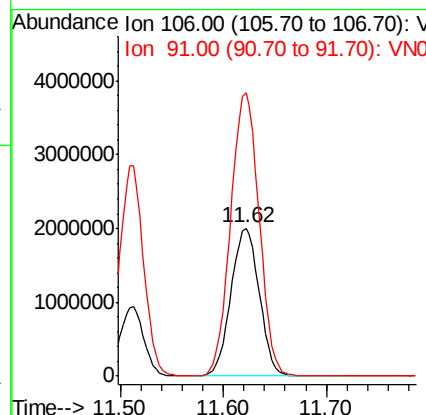
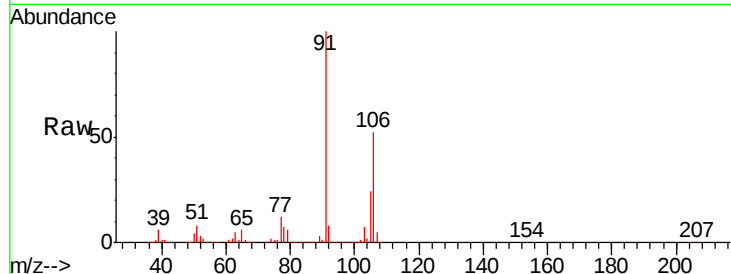
#67
m/p-Xylenes
Concen: 214.86 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:106 Resp: 3837375
Ion Ratio Lower Upper
106 100
91 192.4 158.8 238.2

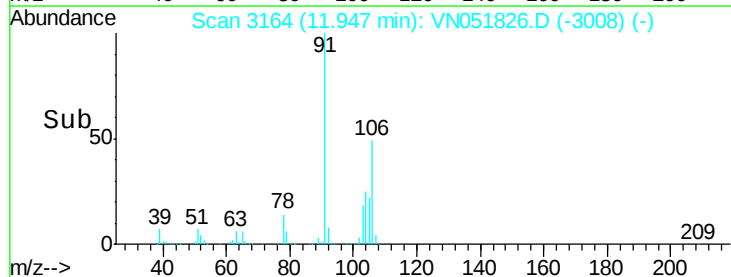
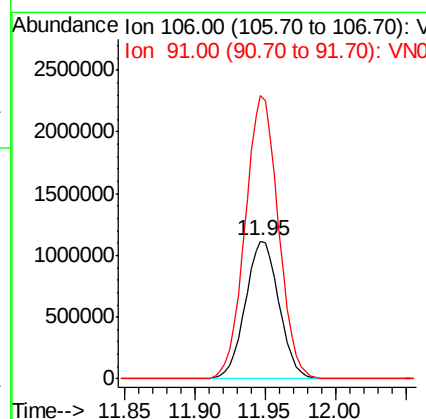
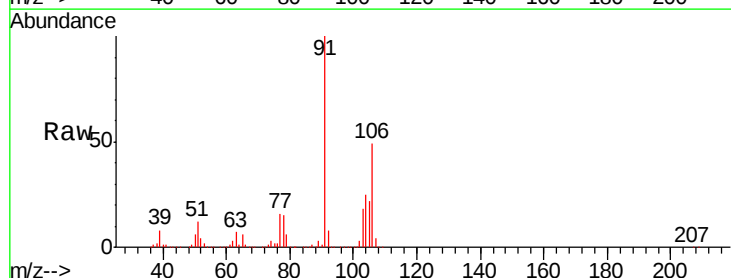
Manual Integrations
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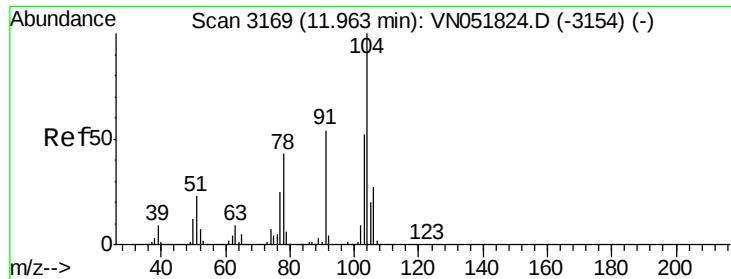
MMDadoda
10/15/2018 11:27:50 AM



#68
o-Xylene
Concen: 105.42 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion:106 Resp: 1869741
Ion Ratio Lower Upper
106 100
91 202.8 111.1 333.3





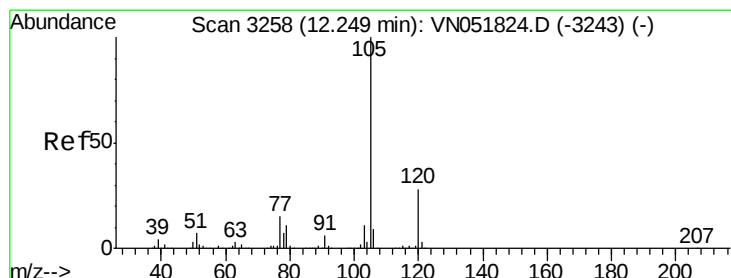
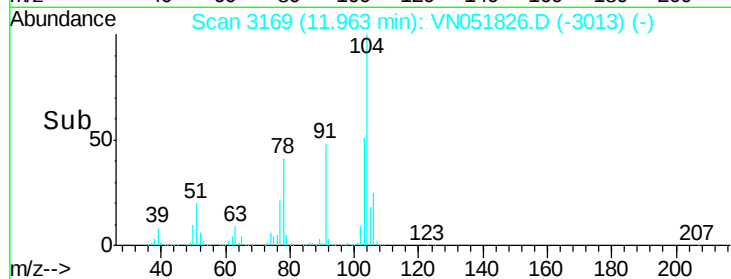
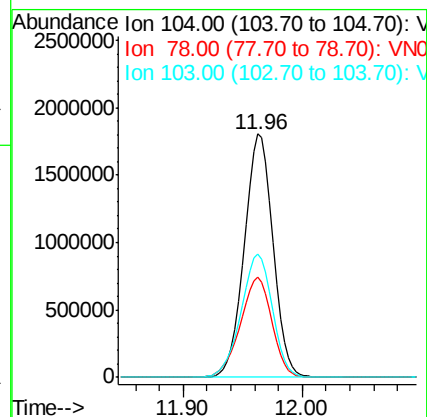
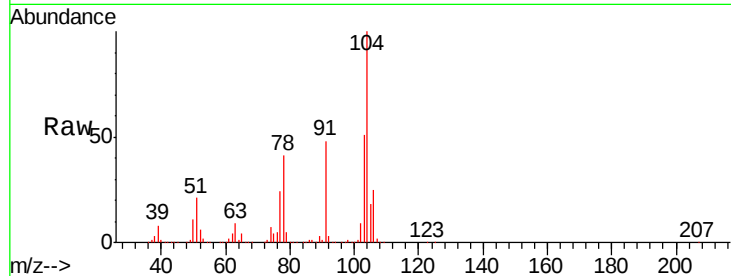
#69
Styrene
Concen: 115.70 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:104 Resp: 3016768
Ion Ratio Lower Upper
104 100
78 45.3 40.6 60.8
103 55.4 44.0 66.0

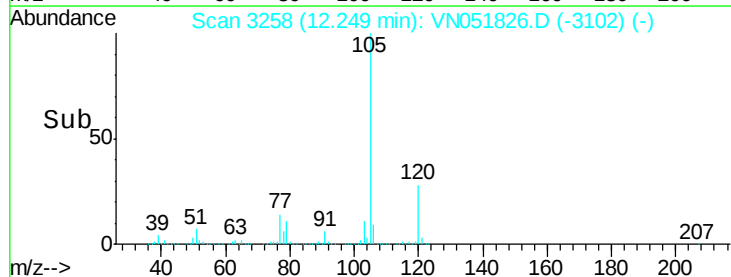
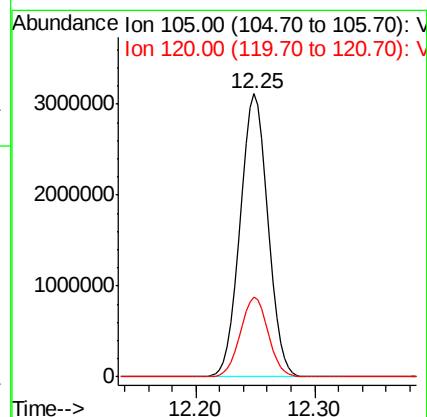
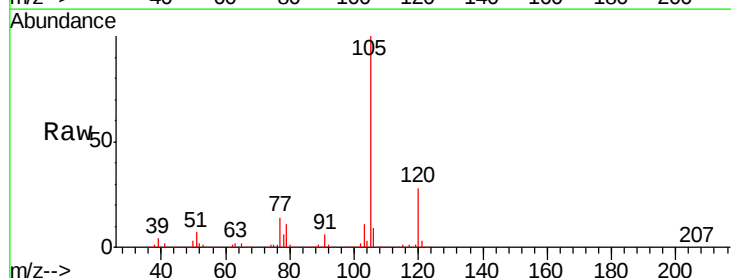
Manual Integrations
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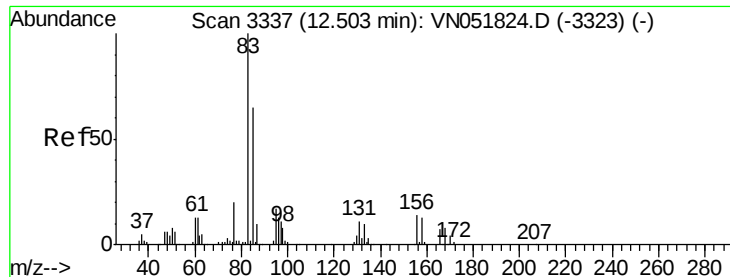
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#70
Isopropylbenzene
Concen: 106.91 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion:105 Resp: 5031808
Ion Ratio Lower Upper
105 100
120 28.1 19.0 35.4





#71

1,1,2,2-Tetrachloroethane

Concen: 106.17 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 988318
Ion Ratio Lower Upper

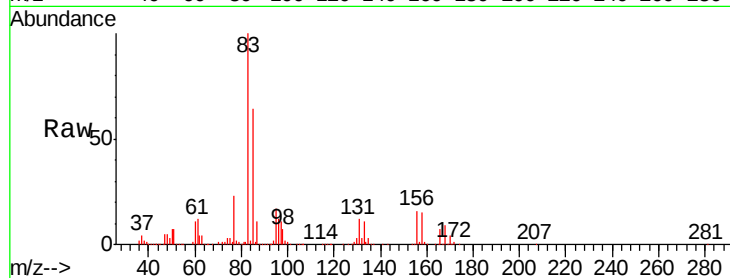
83 100

131 12.3 5.5 16.4

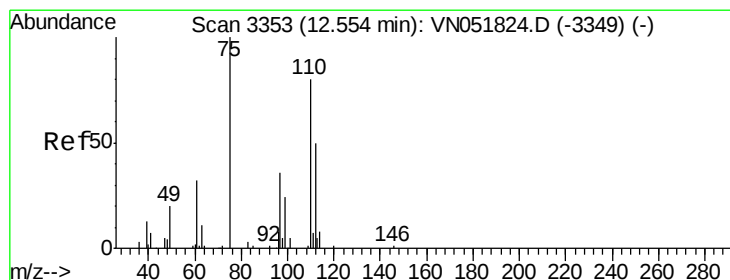
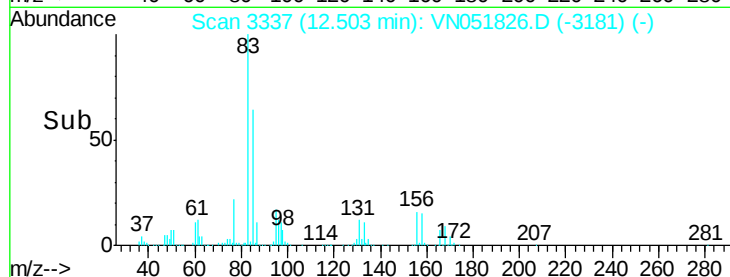
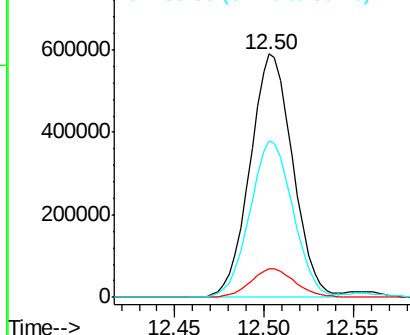
85 65.1 30.6 91.8

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Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 85.26 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

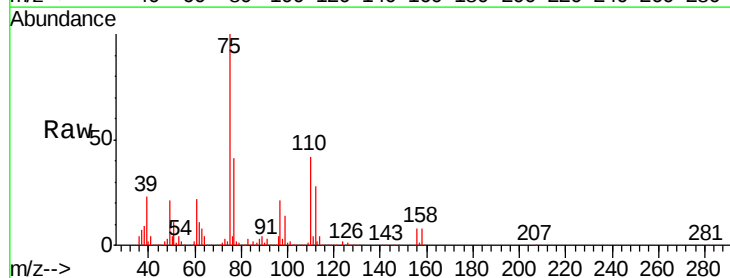
Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

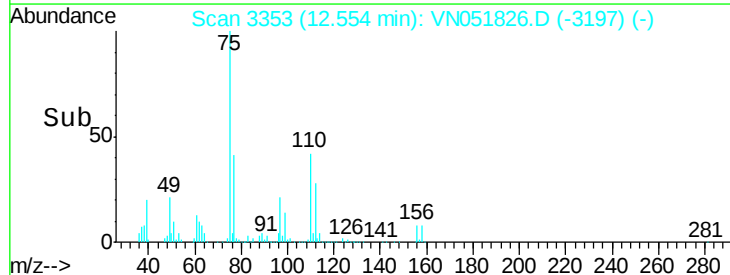
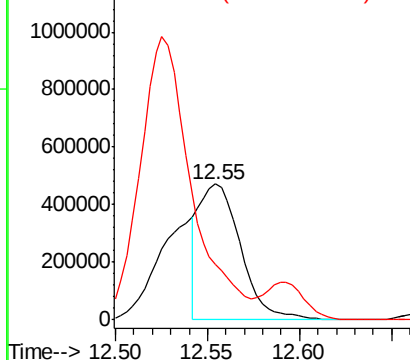
Tgt Ion: 75 Resp: 750190
Ion Ratio Lower Upper

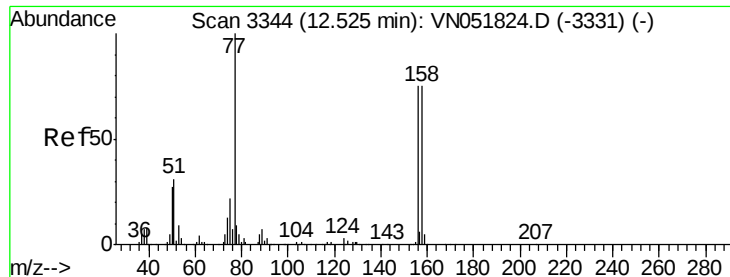
75 100

77 256.1 0.0 400.0



Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 117.24 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:156 Resp: 1304450

Ion Ratio Lower Upper

156 100

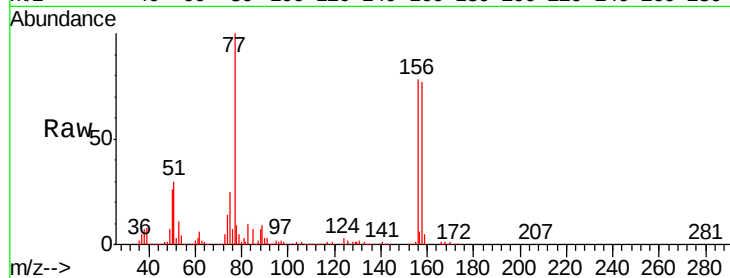
77 147.3 0.0 377.4

158 98.0 0.0 203.0

Manual Integrations
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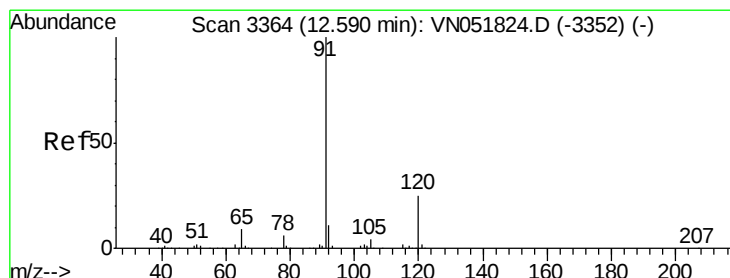
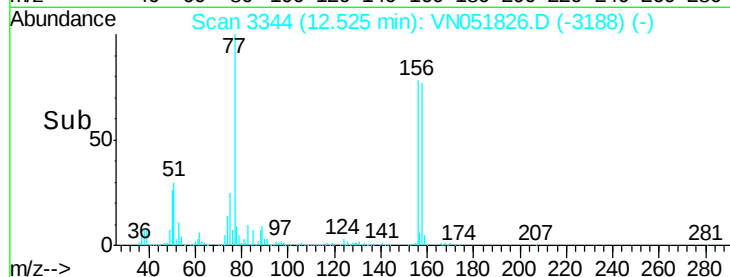
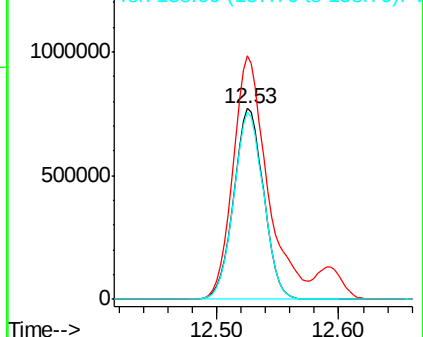
10/15/2018 11:27:50 AM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 111.41 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051826.D

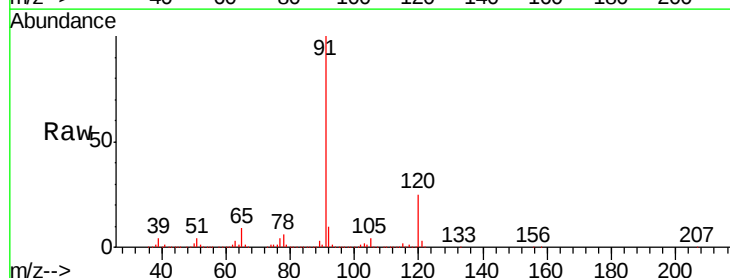
Acq: 12 Oct 2018 9:27

Tgt Ion: 91 Resp: 5549508

Ion Ratio Lower Upper

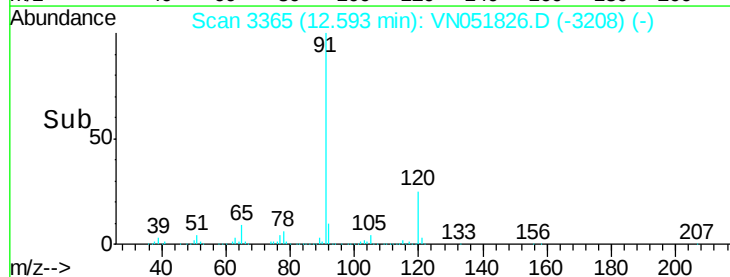
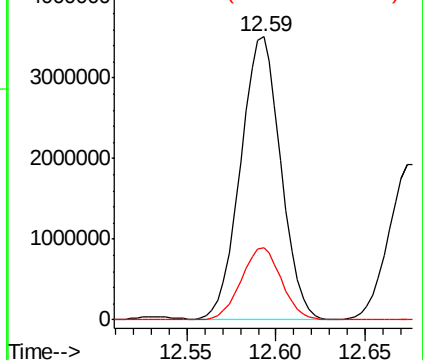
91 100

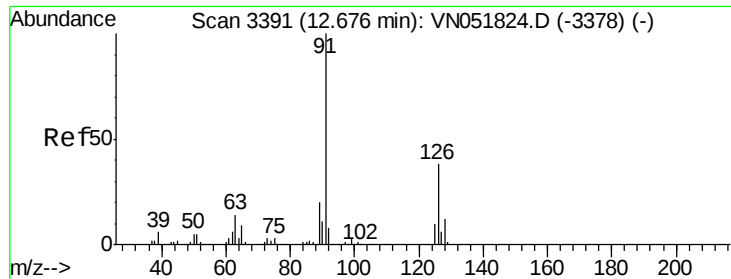
120 25.4 0.0 45.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 107.15 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 3178150

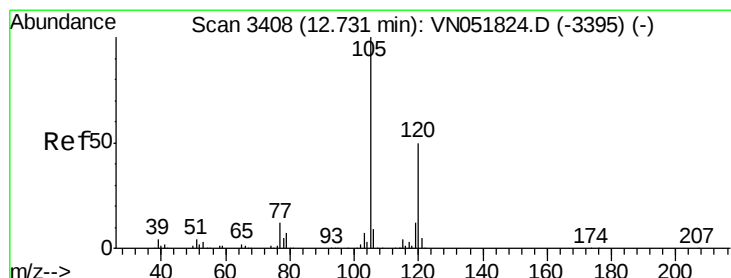
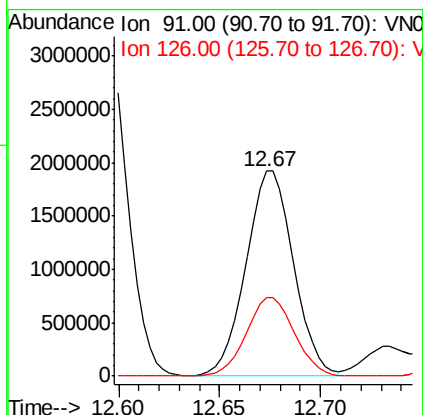
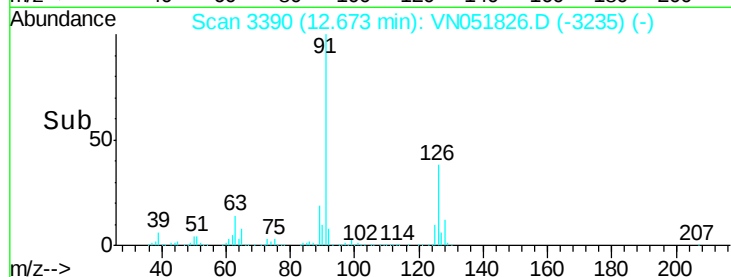
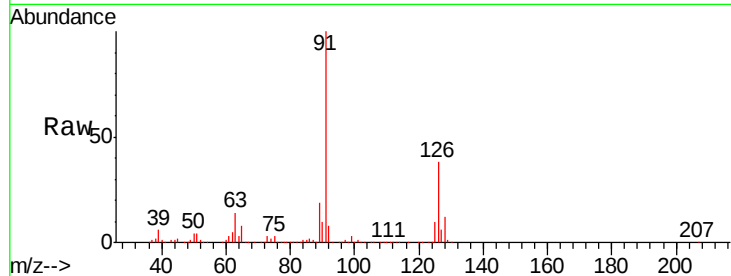
Ion Ratio Lower Upper

91 100

126 38.9 0.0 67.6

Manual Integrations
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#76

1,3,5-Trimethylbenzene

Concen: 110.52 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051826.D

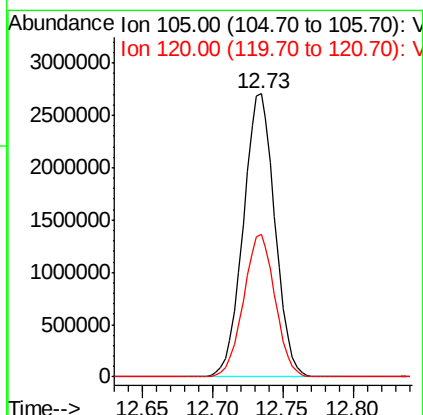
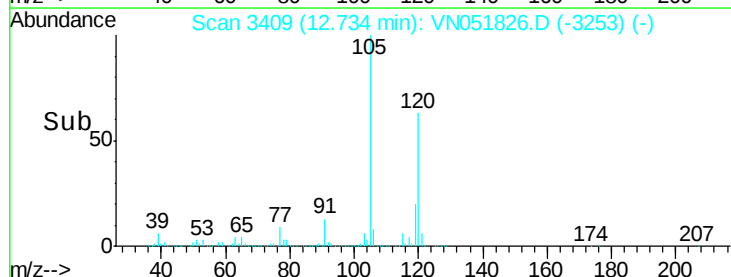
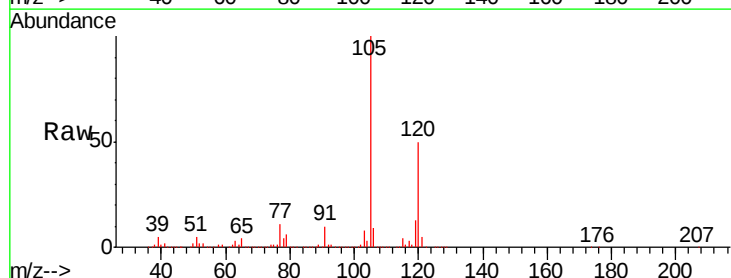
Acq: 12 Oct 2018 9:27

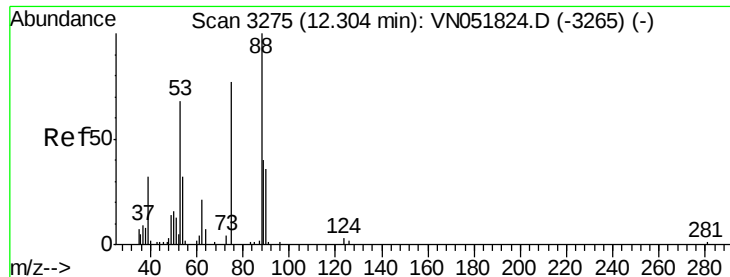
Tgt Ion: 105 Resp: 4241885

Ion Ratio Lower Upper

105 100

120 50.2 0.0 98.2





#77

t-1,4-Dichloro-2-butene

Concen: 129.73 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 283749
Ion Ratio Lower Upper

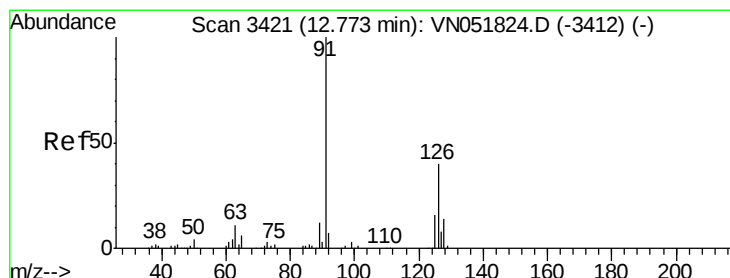
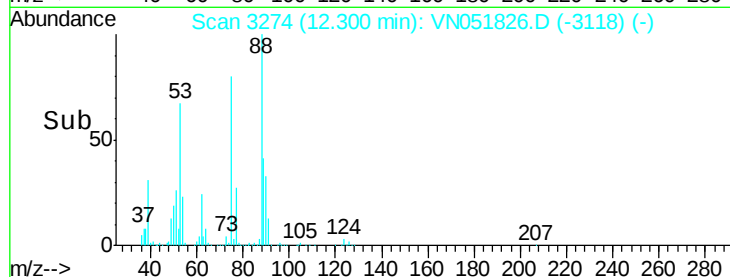
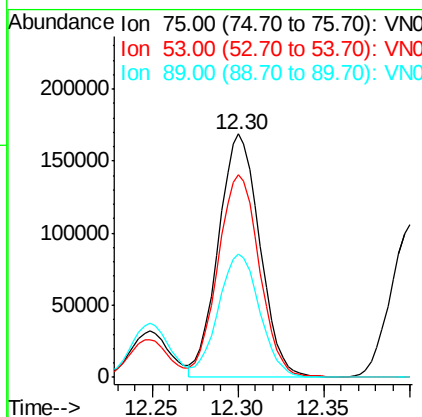
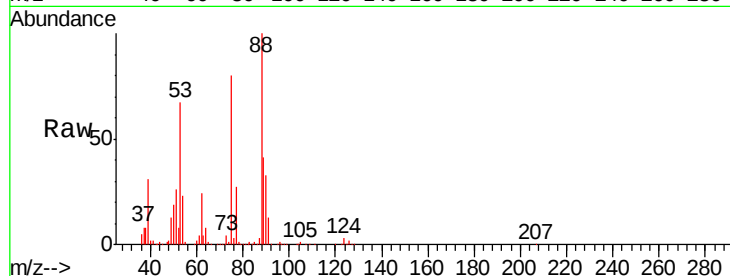
75 100

53 83.1 46.3 138.9

89 50.8 24.6 73.8

Manual Integrations
APPROVED

MMDadoda
10/15/2018 11:27:50 AM



#78

4-Chlorotoluene

Concen: 115.08 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

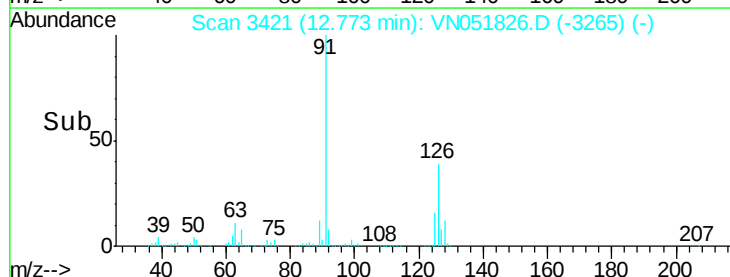
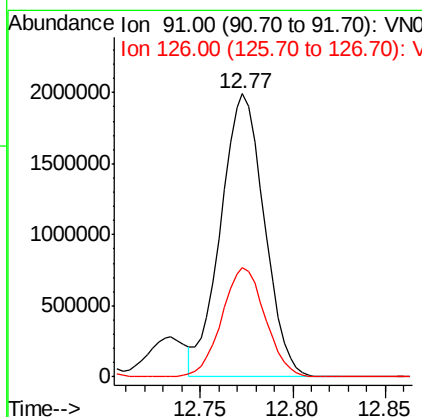
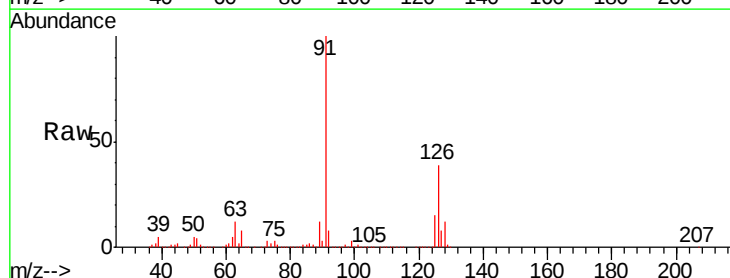
Lab File: VN051826.D

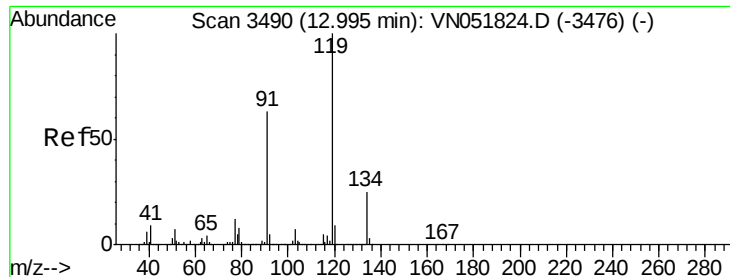
Acq: 12 Oct 2018 9:27

Tgt Ion: 91 Resp: 3247881
Ion Ratio Lower Upper

91 100

126 38.4 0.0 65.2





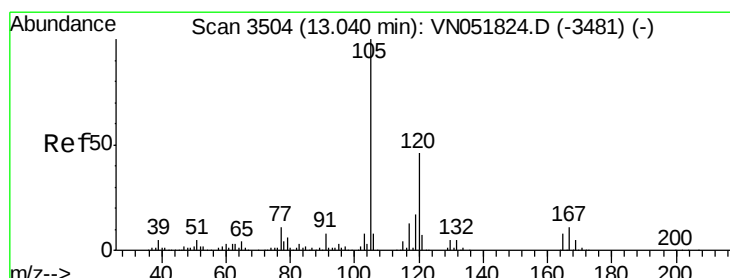
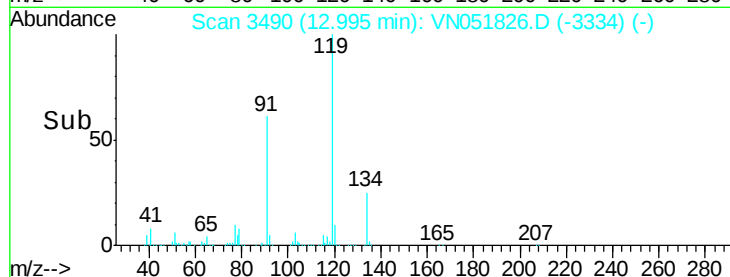
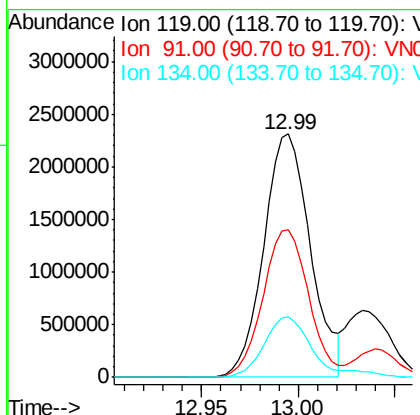
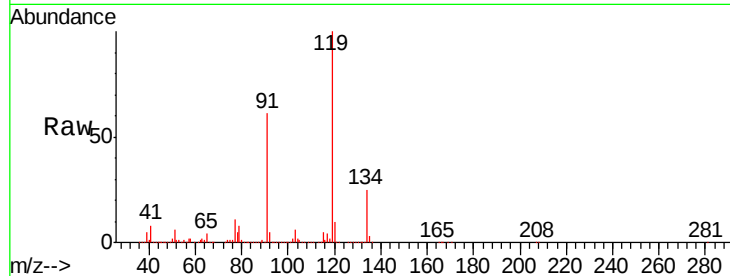
#79
tert-butylbenzene
Concen: 108.56 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
119	100		
91	59.2	0.0	131.6
134	26.2	0.0	46.2

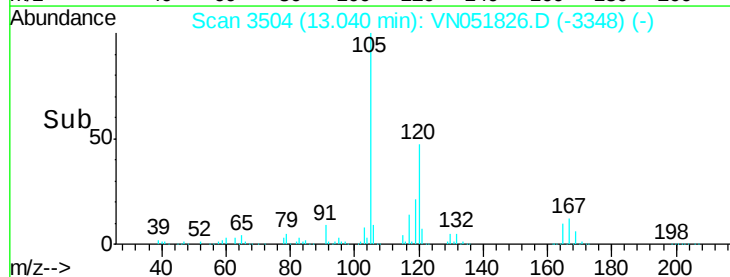
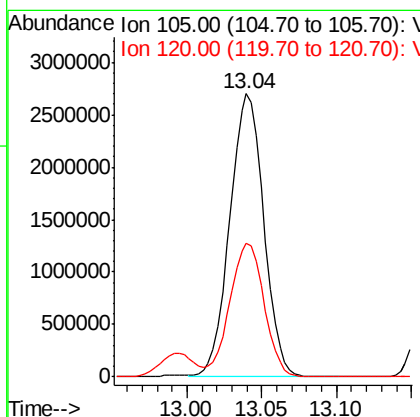
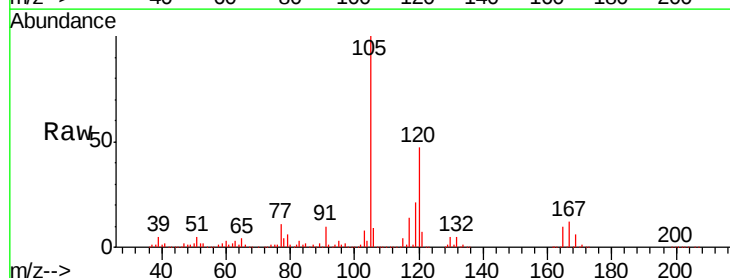
Manual Integrations
APPROVED

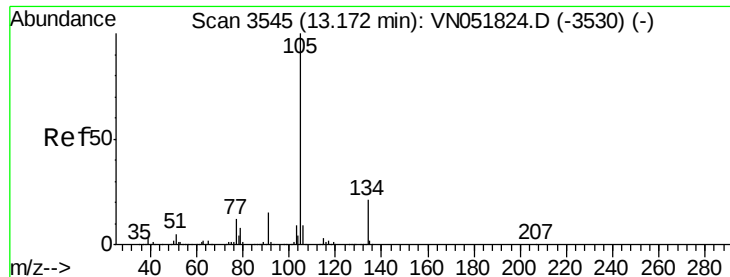
MMDadoda
10/15/2018 11:27:50 AM



#80
1,2,4-Trimethylbenzene
Concen: 111.73 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.7	0.0	89.6





#81

sec-Butylbenzene

Concen: 109.29 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:105 Resp: 5065061

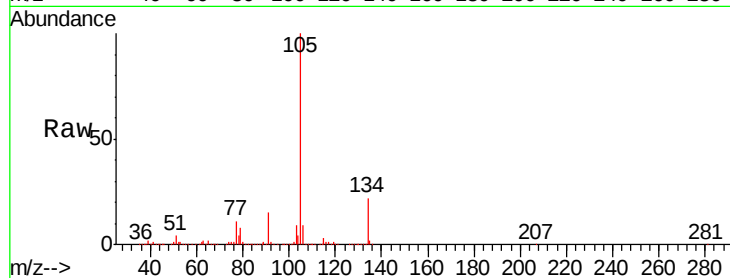
Ion Ratio Lower Upper

105 100

134 21.7 0.0 39.4

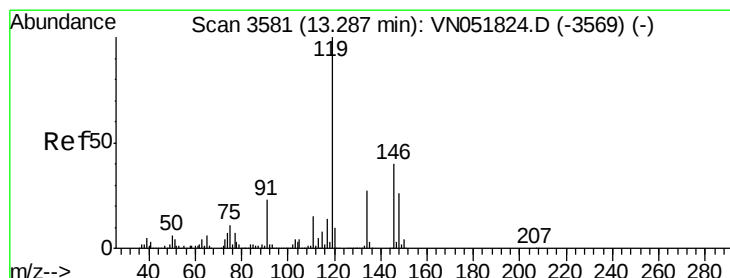
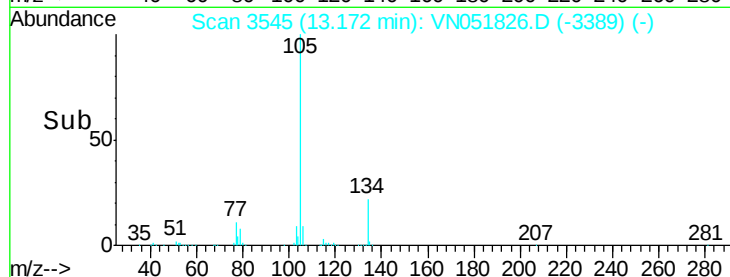
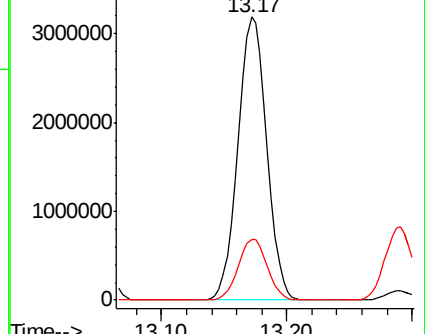
Manual Integrations
APPROVED

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 115.36 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

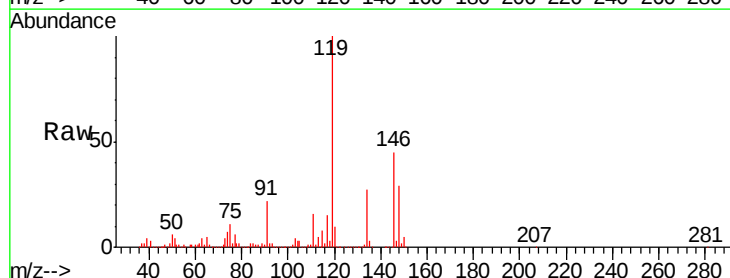
Tgt Ion:119 Resp: 4668949

Ion Ratio Lower Upper

119 100

134 27.4 0.0 53.6

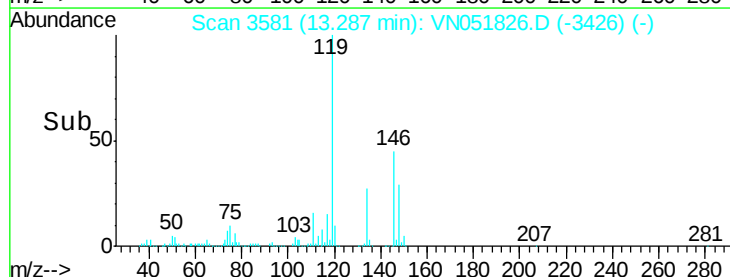
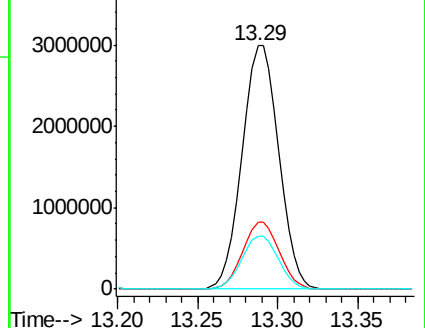
91 21.9 0.0 52.0

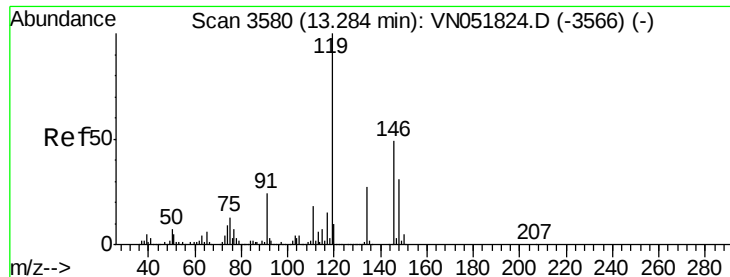


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





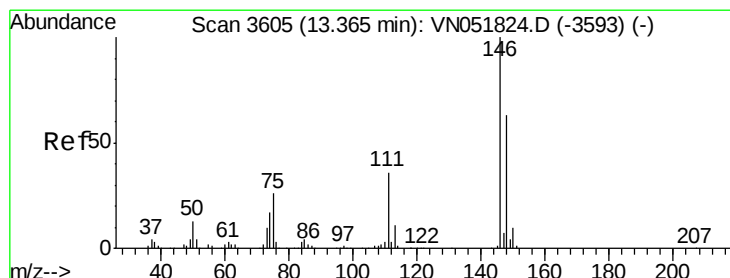
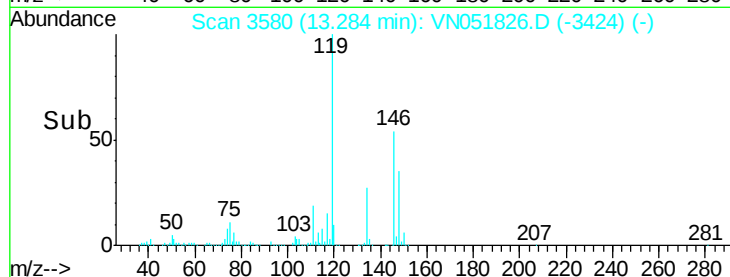
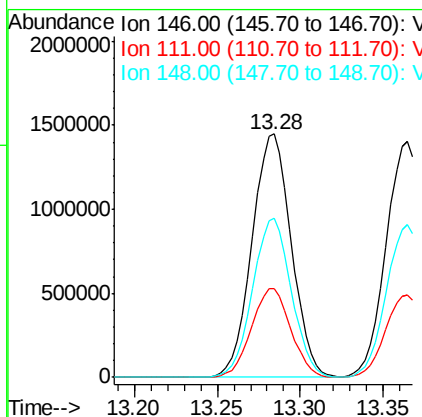
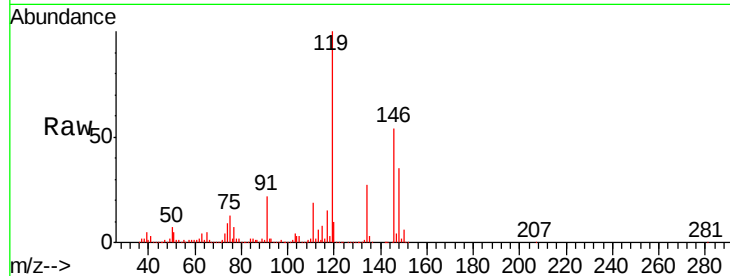
#83
 1,3-Dichlorobenzene
 Concen: 126.07 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion:146 Resp: 2396164
 Ion Ratio Lower Upper
 146 100
 111 36.4 18.1 54.3
 148 64.3 31.3 93.8

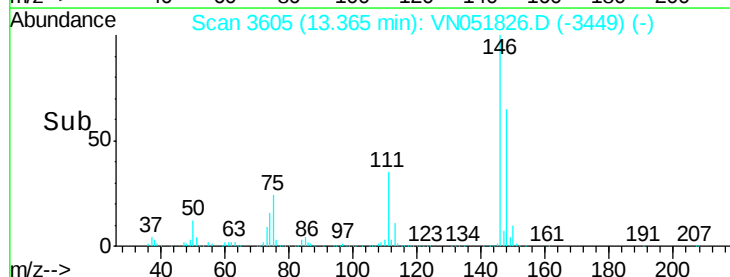
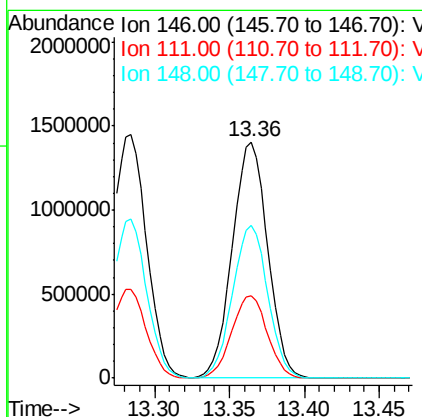
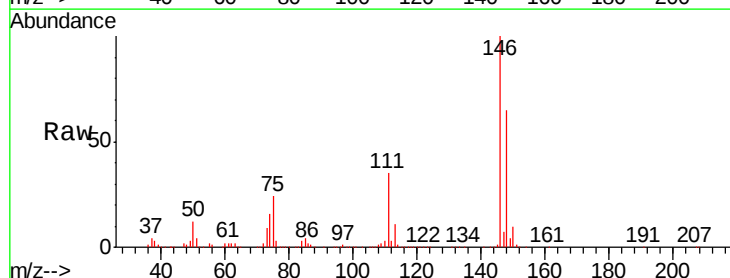
Manual Integrations
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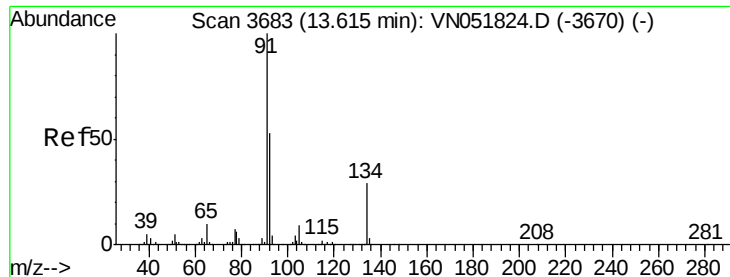
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 10/15/2018 11:27:50 AM



#84
 1,4-Dichlorobenzene
 Concen: 132.14 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion:146 Resp: 2311241
 Ion Ratio Lower Upper
 146 100
 111 35.2 17.4 52.2
 148 64.3 32.8 98.3





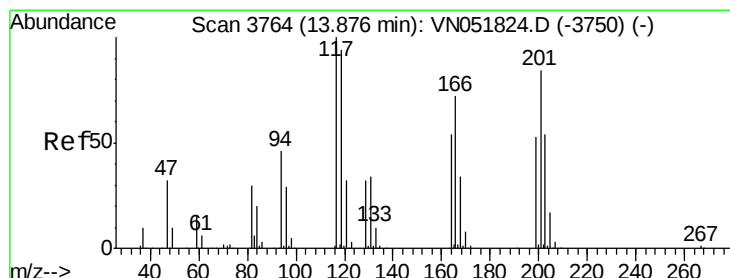
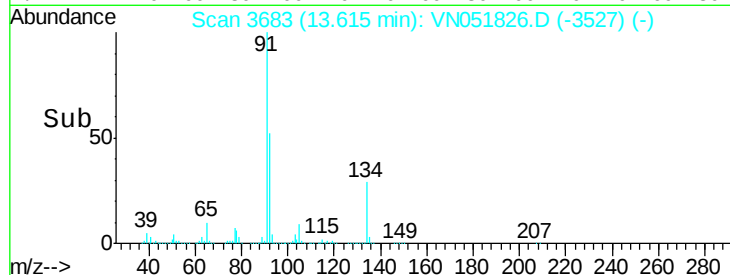
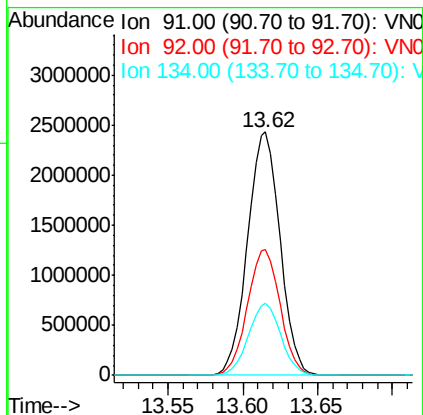
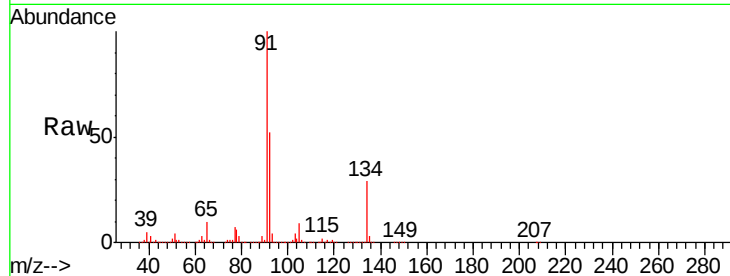
#85
n-Butylbenzene
Concen: 125.12 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 91 Resp: 3677596
Ion Ratio Lower Upper
91 100
92 52.0 0.0 97.4
134 29.4 0.0 49.6

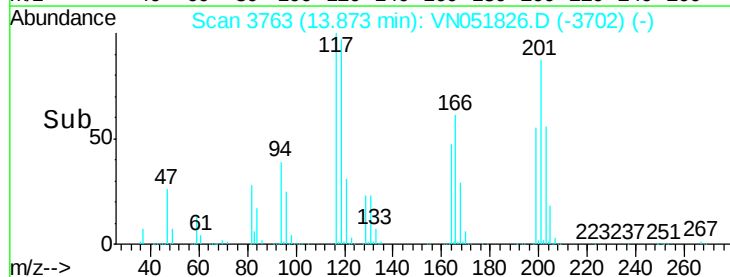
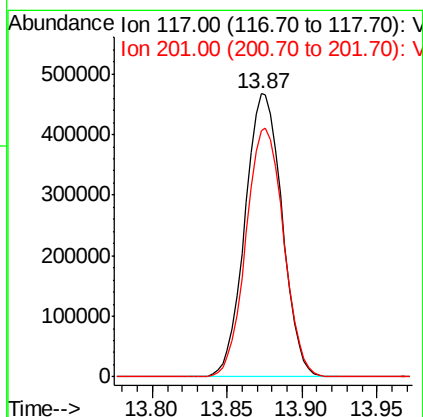
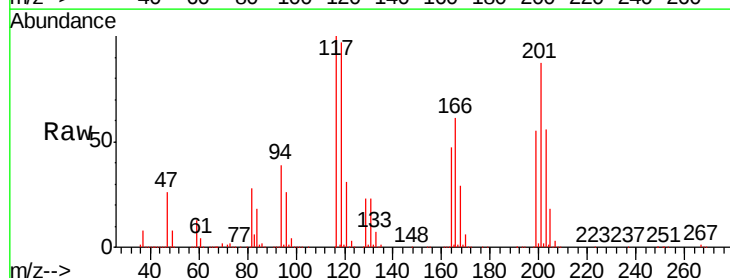
Manual Integrations
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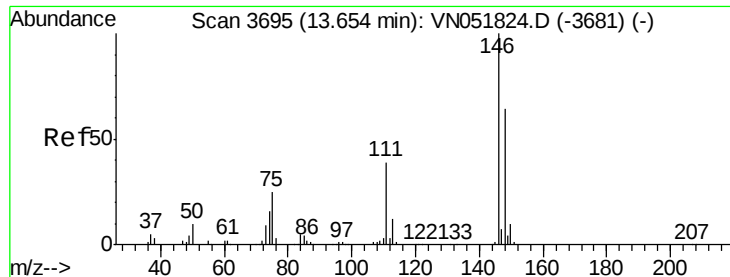
MMDadoda
10/15/2018 11:27:50 AM



#86
Hexachloroethane
Concen: 116.89 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion: 117 Resp: 808232
Ion Ratio Lower Upper
117 100
201 88.7 47.8 143.3





#87

1,2-Dichlorobenzene

Concen: 122.61 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 146 Resp: 2291897

Ion Ratio Lower Upper

146 100

111 37.5 20.8 62.2

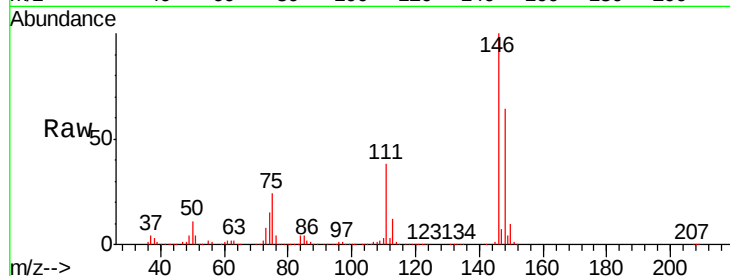
148 64.3 33.2 99.6

Manual Integrations

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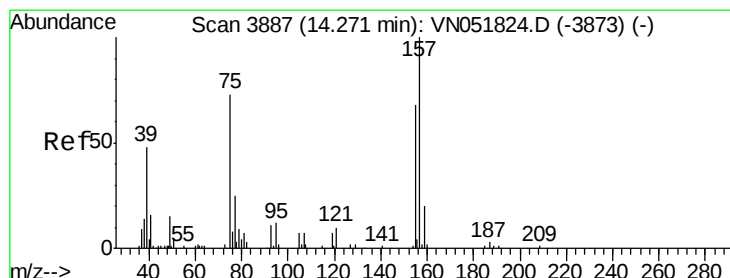
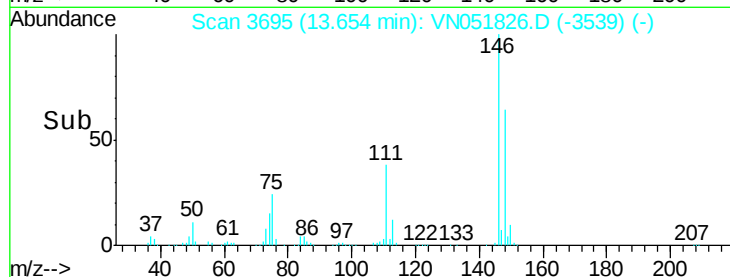
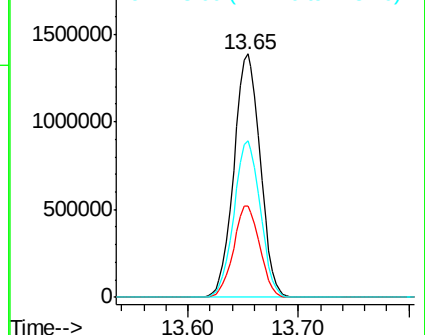
10/15/2018 11:27:50 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 113.43 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN051826.D

Acq: 12 Oct 2018 9:27

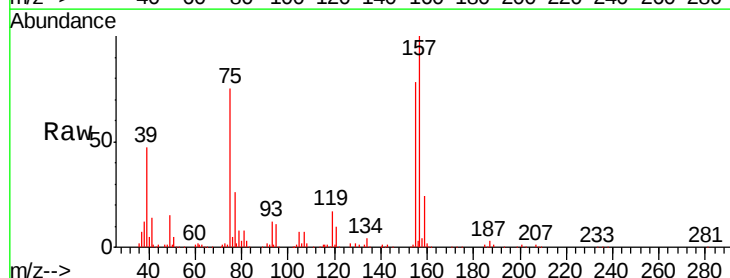
Tgt Ion: 75 Resp: 152604

Ion Ratio Lower Upper

75 100

155 107.1 57.0 85.6#

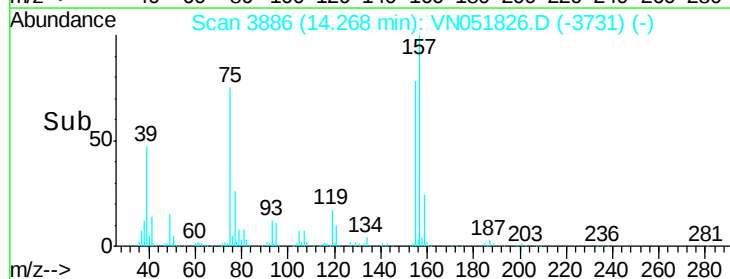
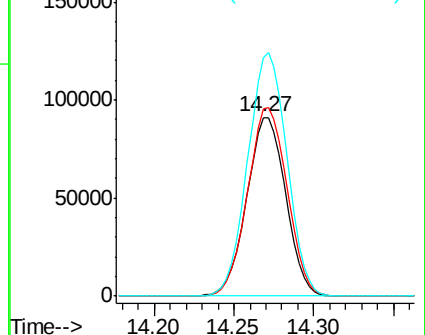
157 136.9 87.4 131.0#

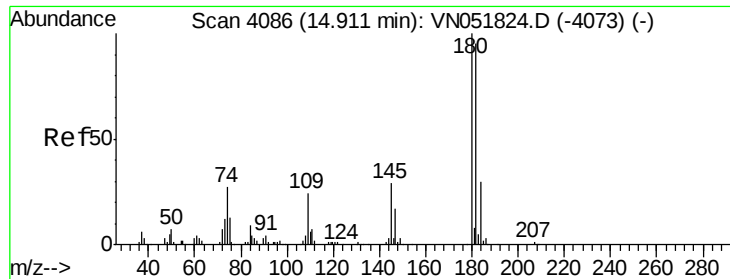


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





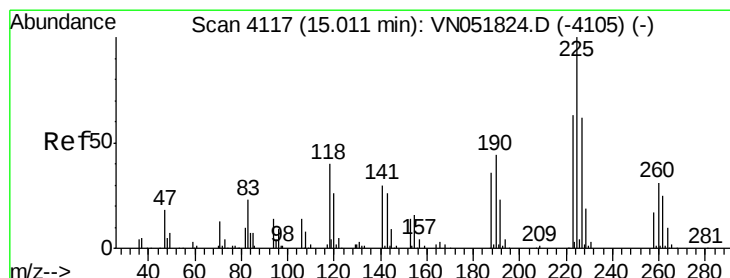
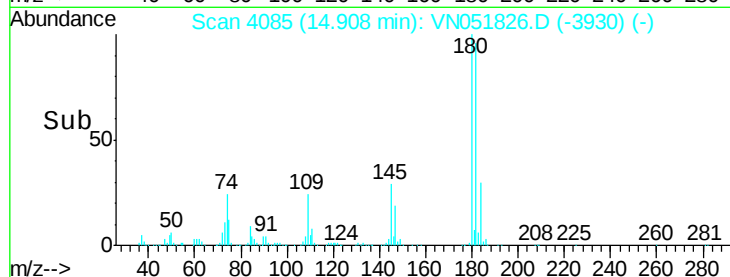
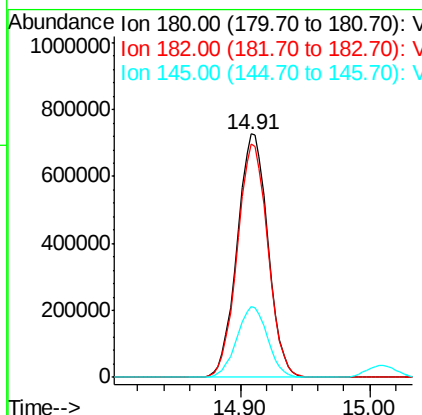
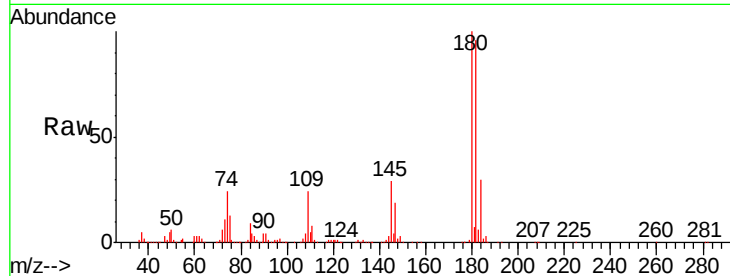
#89
 1,2,4-Trichlorobenzene
 Concen: 159.92 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.7	116.5
145	29.1	23.4	35.2

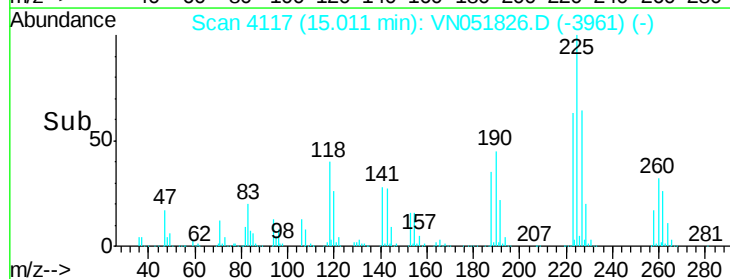
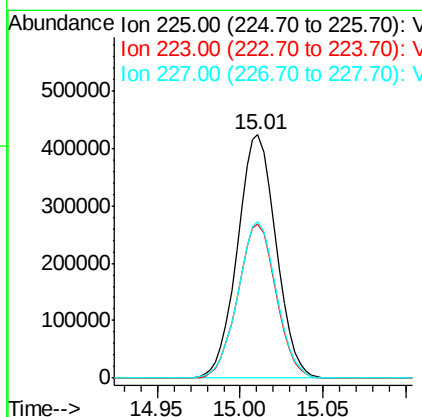
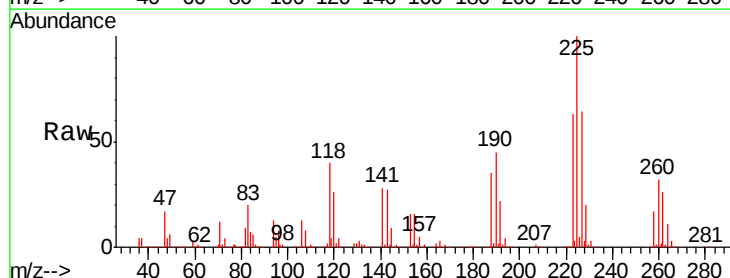
Manual Integrations
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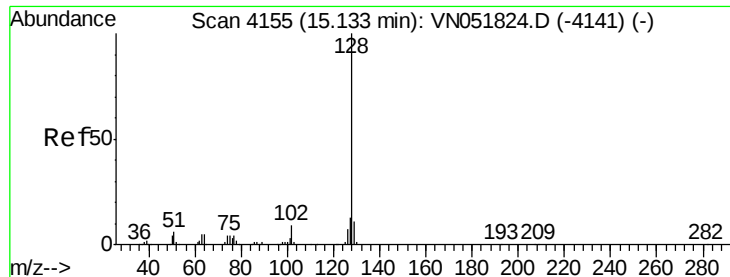
MMDadoda
 10/15/2018 11:27:50 AM



#90
 Hexachlorobutadiene
 Concen: 107.58 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051826.D
 Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	0.0	117.0
227	63.8	0.0	127.0





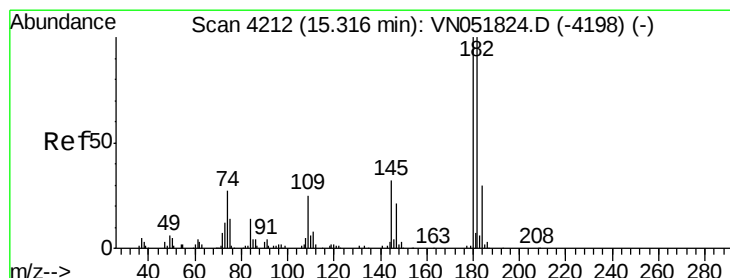
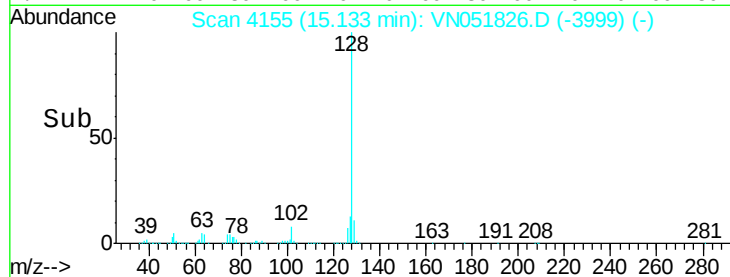
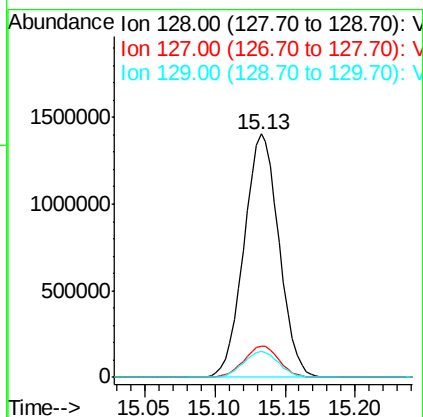
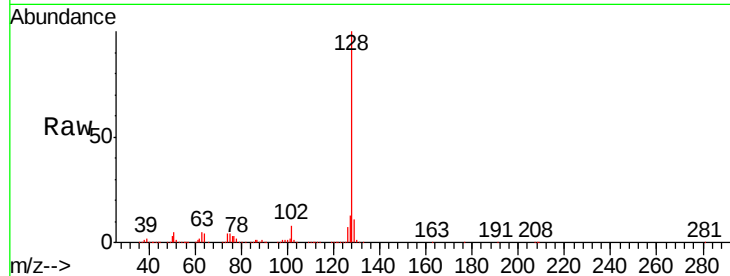
#91
Naphthalene
Concen: 161.76 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.8	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
10/15/2018 11:27:50 AM



#92
1,2,3-Trichlorobenzene
Concen: 148.06 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN051826.D
Acq: 12 Oct 2018 9:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	0.0	198.0
145	31.3	0.0	36.8

