

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102518\
 Data File : VN052016.D
 Acq On : 25 Oct 2018 17:50
 Operator : MD\SY
 Sample : VN1025WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1025WBSD02

Manual Integrations
 APPROVED

MMDadoda
 10/26/2018 9:20:09 AM

Quant Time: Oct 26 02:30:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	179193	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1006671	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	896506	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	301184	27.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	92.07%
60) 4-Bromofluorobenzene	12.40	95	370354	28.65	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.50%
63) Toluene-d8	10.09	98	1153603	29.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	149686	21.501	ug/l 100
3) Chloromethane	2.06	50	133158	18.098	ug/l 99
4) Vinyl Chloride	2.19	62	168861	15.368	ug/l 99
5) Bromomethane	2.58	94	171009	17.615	ug/l 88
6) Chloroethane	2.71	64	129598	16.366	ug/l 99
7) Trichlorofluoromethane	3.02	101	325385	20.772	ug/l 94
8) Diethyl Ether	3.41	74	93107	20.417	ug/l 70
9) 1,1,2-Trichlorotrifluoroet	3.77	101	199051	22.313	ug/l # 39
10) 1,1-Dichloroethene	3.74	96	177330	21.494	ug/l # 82
11) Methyl Iodide	3.96	142	304258	25.369	ug/l 96
12) Methyl Acetate	4.33	43	105404	20.574	ug/l 91
13) Acrolein	3.61	56	15707	46.533	ug/l 98
14) Acrylonitrile	4.99	53	230711	100.760	ug/l # 60
15) Acetone	3.82	58	54193	95.744	ug/l 97
16) Carbon Disulfide	4.06	76	382278	17.643	ug/l 98
17) Allyl chloride	4.33	41	163284	16.670	ug/l 66
18) Methylene Chloride	4.55	84	201219	21.813	ug/l # 85
19) trans-1,2-Dichloroethene	5.05	96	203094	21.559	ug/l # 80
20) Diisopropyl ether	5.95	45	427796	19.611	ug/l # 84
21) 1,1-Dichloroethane	5.86	63	313866	20.591	ug/l # 98
22) cis-1,2-Dichloroethene	6.83	96	241077	21.787	ug/l # 77
23) tert-Butyl Alcohol	4.78	59	43141	71.539	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	455442	19.161	ug/l # 66
25) Chloroform	7.37	83	387003	21.401	ug/l 100
26) Cyclohexane	7.66	56	243246	18.823	ug/l # 66
29) 1,1-Dichloropropene	7.80	75	265825	20.486	ug/l 93
30) 2-Butanone	6.84	43	247369	91.208	ug/l # 84
31) 2,2-Dichloropropane	6.83	77	275628	18.056	ug/l # 75
32) 1,1,1-Trichloroethane	7.57	97	346184	20.123	ug/l 94
33) Carbon Tetrachloride	7.78	117	311990	20.045	ug/l 91
34) Benzene	8.04	78	820985	21.389	ug/l # 65
35) Methacrylonitrile	7.18	41	49125	13.786	ug/l 73
36) 1,2-Dichloroethane	8.13	62	252954	20.568	ug/l # 95
37) Trichloroethene	8.84	130	258904	21.729	ug/l 95
38) Methylcyclohexane	9.08	83	316084	18.992	ug/l 77
39) 1,2-Dichloropropane	9.12	63	184156	20.373	ug/l 97
40) Dibromomethane	9.21	93	144855	21.592	ug/l 92

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	275110	19.853	ug/l	98
42) Vinyl Acetate	5.90	43	1408586	92.260	ug/l #	88
43) Ethyl Acetate	6.93	43	113131	19.210	ug/l	97
44) Isopropyl Acetate	8.17	43	216916	18.441	ug/l	96
45) 1,4-Dioxane	9.20	88	27498	291.138	ug/l #	77
46) Methyl methacrylate	9.20	41	102261	18.848	ug/l	63
47) n-amyl Acetate	12.07	43	184984m	18.786	ug/l	
48) t-1,3-Dichloropropene	10.38	75	249748	18.482	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	288995	19.400	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	201365	21.724	ug/l	94
51) Ethyl methacrylate	10.43	69	203405	19.167	ug/l	83
52) 1,3-Dichloropropane	10.71	76	299411	20.929	ug/l	96
53) Dibromochloromethane	10.90	129	225029	19.624	ug/l	95
54) 1,2-Dibromoethane	11.00	107	202564	20.820	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	518428	114.276	ug/l #	90
56) Bromoform	12.13	173	131539	17.393	ug/l #	92
58) 4-Methyl-2-Pentanone	9.98	43	577163	96.204	ug/l #	85
59) 2-Hexanone	10.75	43	380902	94.110	ug/l #	87
61) Tetrachloroethene	10.63	164	245111	21.379	ug/l	97
62) Toluene	10.16	91	966231	21.695	ug/l	98
64) Chlorobenzene	11.43	112	648954	22.249	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	242815	21.688	ug/l	100
66) Ethyl Benzene	11.51	91	1040217	21.133	ug/l	98
67) m/p-Xylenes	11.62	106	849741	42.581	ug/l	93
68) o-Xylene	11.95	106	412785	20.982	ug/l	87
69) Styrene	11.96	104	652566	21.620	ug/l	94
70) Isopropylbenzene	12.25	105	1092934	20.833	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	201747	19.473	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	167825m	20.591	ug/l	
73) Bromobenzene	12.53	156	295252	22.721	ug/l	76
74) n-propylbenzene	12.59	91	1160040	20.557	ug/l	93
75) 2-Chlorotoluene	12.67	91	678538	20.510	ug/l	89
76) 1,3,5-Trimethylbenzene	12.73	105	881104	20.310	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	42323	15.701	ug/l	99
78) 4-Chlorotoluene	12.77	91	681078	20.953	ug/l	86
79) tert-butylbenzene	12.99	119	808333	20.261	ug/l	93
80) 1,2,4-Trimethylbenzene	13.04	105	888805	20.499	ug/l	95
81) sec-Butylbenzene	13.17	105	1044708	20.017	ug/l	95
82) p-Isopropyltoluene	13.29	119	936073	20.044	ug/l	95
83) 1,3-Dichlorobenzene	13.28	146	518995	22.635	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	490234	22.711	ug/l	98
85) n-Butylbenzene	13.61	91	682624	19.383	ug/l	95
86) Hexachloroethane	13.87	117	131719	16.357	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	477927	21.530	ug/l	94
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21144	13.666	ug/l #	54
89) 1,2,4-Trichlorobenzene	14.91	180	174363	19.629	ug/l	99
90) Hexachlorobutadiene	15.01	225	119128	16.653	ug/l	96
91) Naphthalene	15.13	128	329821	19.396	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	144811	14.338	ug/l	92

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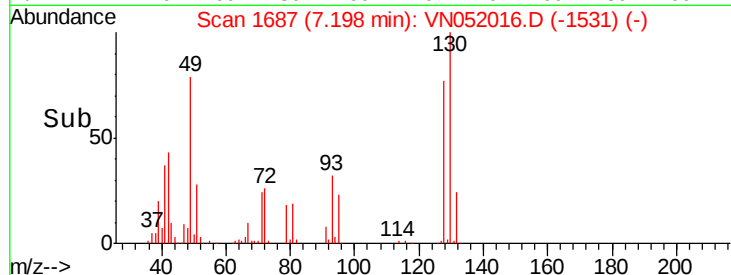
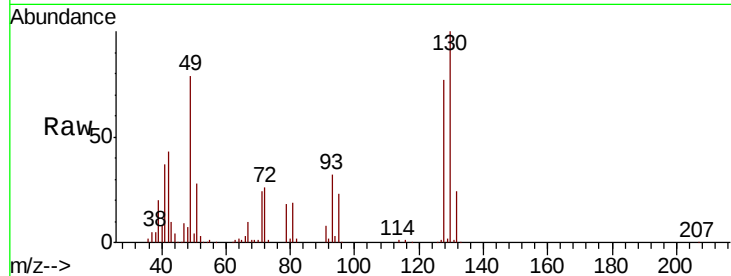
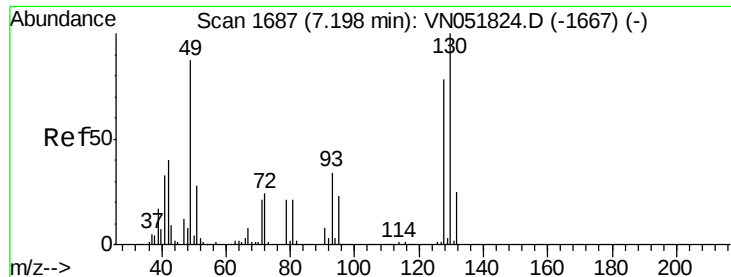
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052016.D

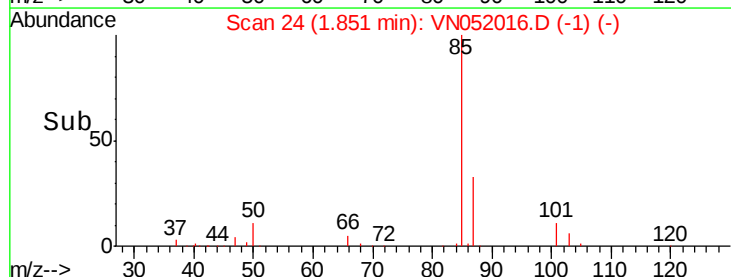
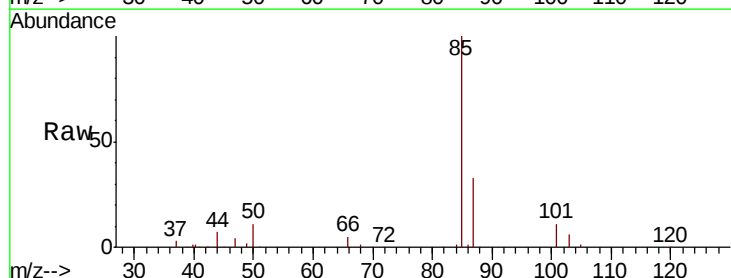
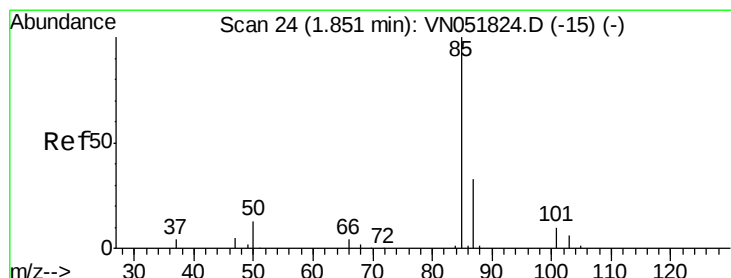
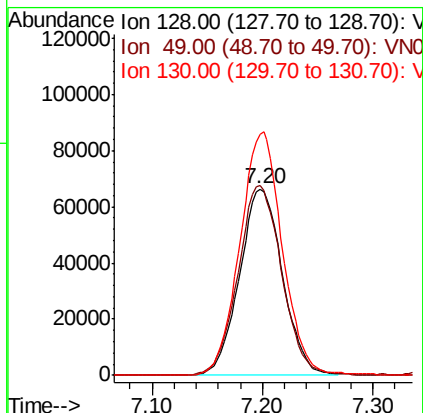
Acq: 25 Oct 2018 17:50

Tot Ion	128	Resp	179193
Ion	Ratio	Lower	Upper
128	100		
49	103.7	0.0	403.3
130	128.9	0.0	326.0

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#2

Dichlorodifluoromethane

Concen: 21.501 ug/l

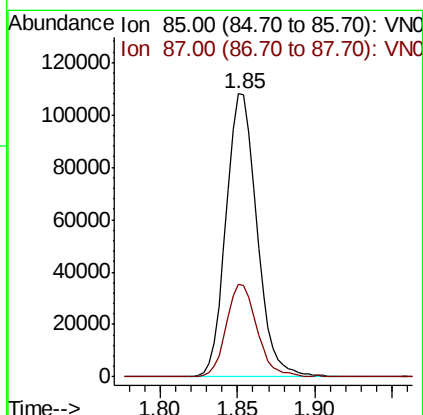
RT: 1.85 min Scan# 24

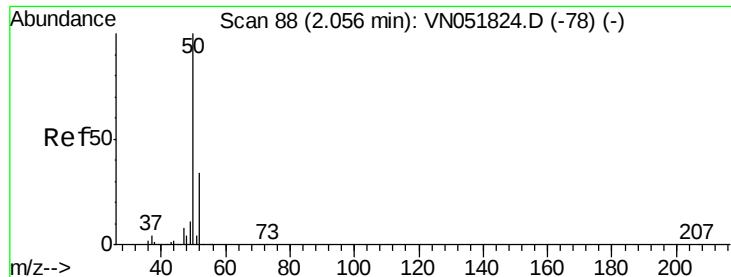
Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Tgt Ion	85	Resp	149686
Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.3	48.8





#3

Chloromethane

Concen: 18.098 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 50 Resp: 133158

Ion Ratio Lower Upper

50 100

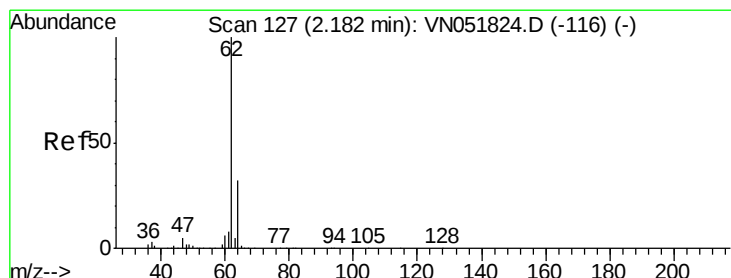
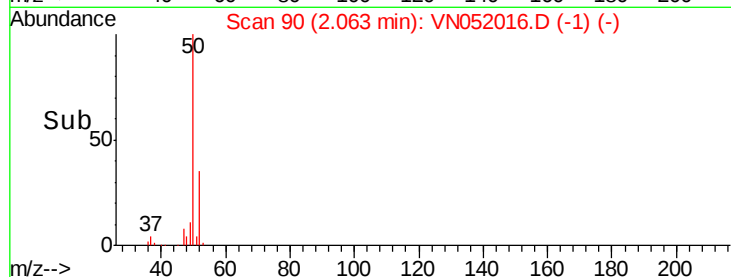
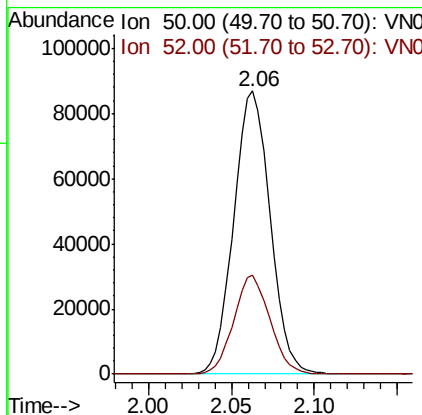
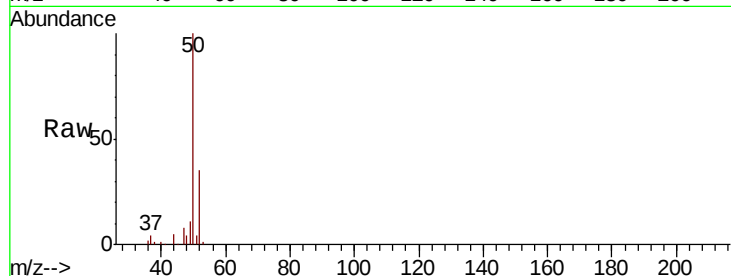
52 34.8 27.2 40.8

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#4

Vinyl Chloride

Concen: 15.368 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.01 min

Lab File: VN052016.D

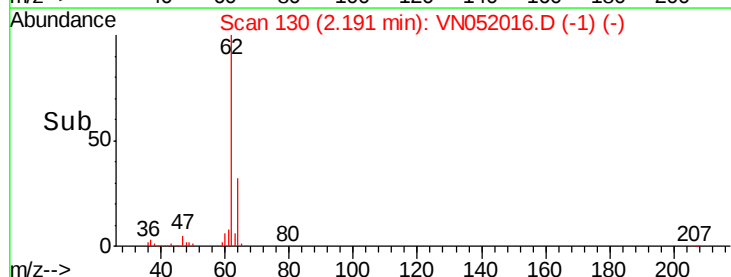
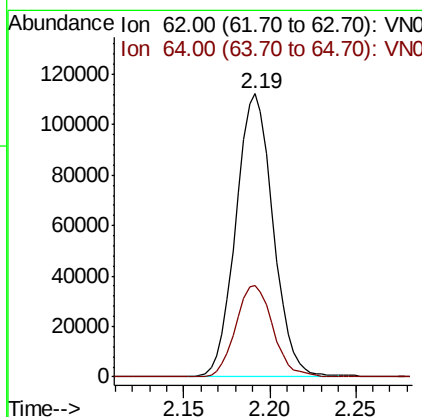
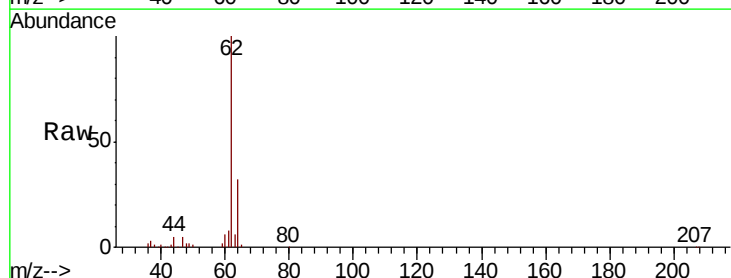
Acq: 25 Oct 2018 17:50

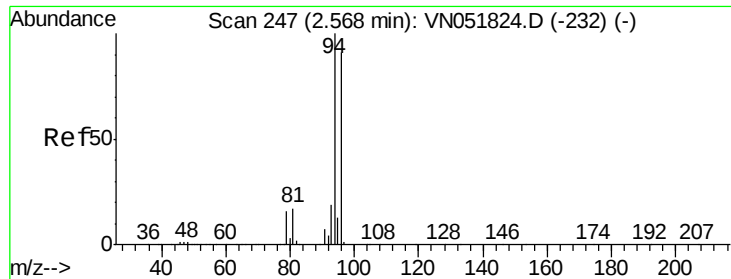
Tgt Ion: 62 Resp: 168861

Ion Ratio Lower Upper

62 100

64 32.3 25.4 38.2





#5

Bromomethane

Concen: 17.615 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 94 Resp: 171009

Ion Ratio Lower Upper

94 100

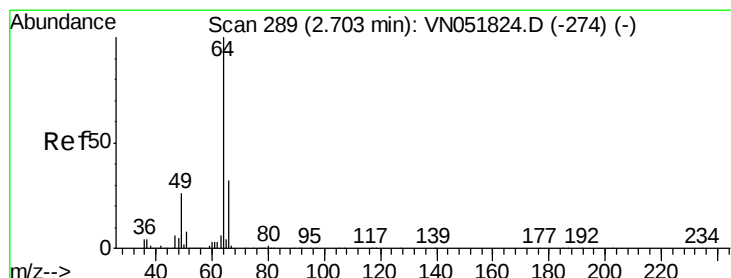
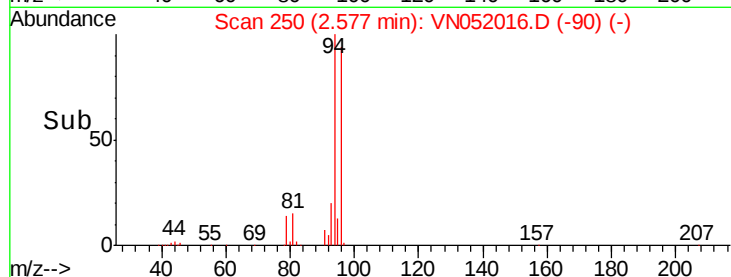
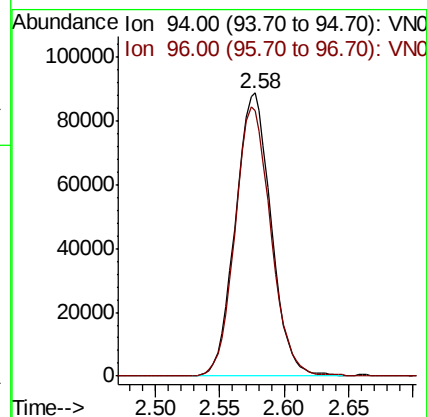
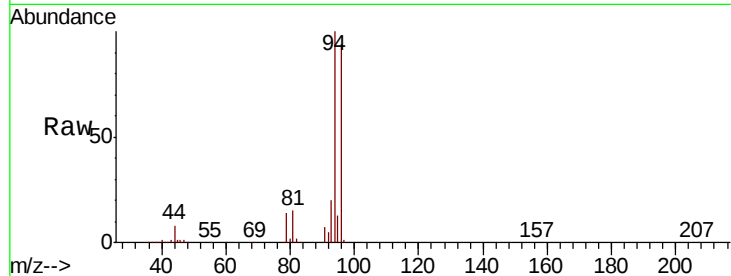
96 93.6 66.4 99.6

Manual Integrations

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#6

Chloroethane

Concen: 16.366 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.01 min

Lab File: VN052016.D

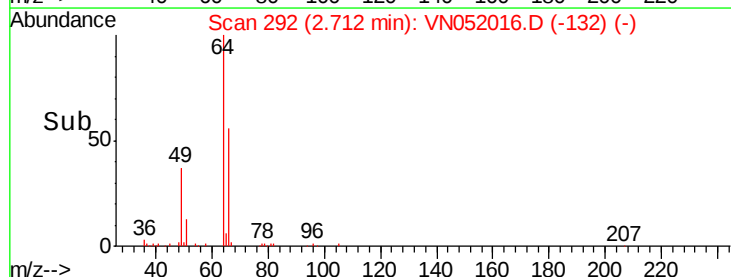
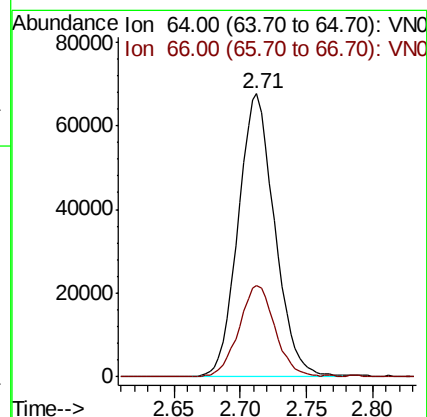
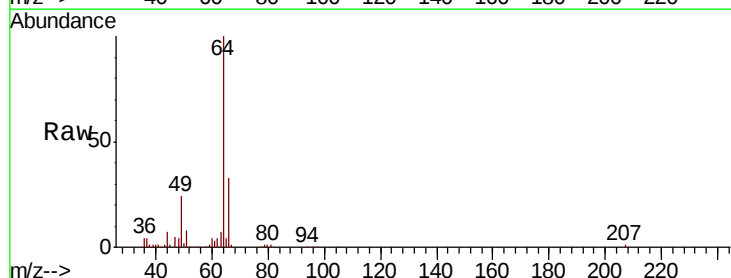
Acq: 25 Oct 2018 17:50

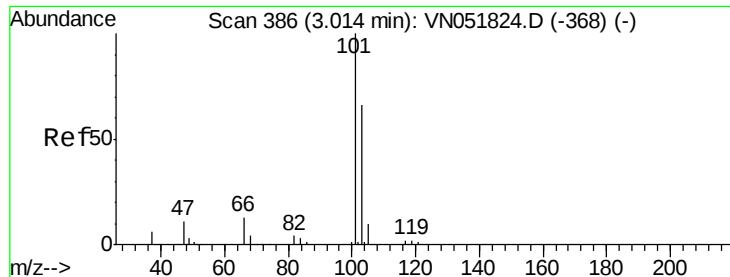
Tgt Ion: 64 Resp: 129598

Ion Ratio Lower Upper

64 100

66 32.5 25.8 38.6





#7

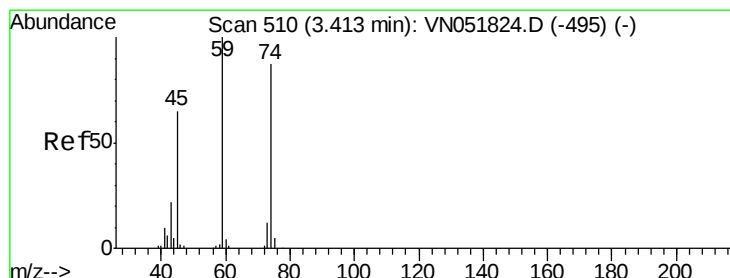
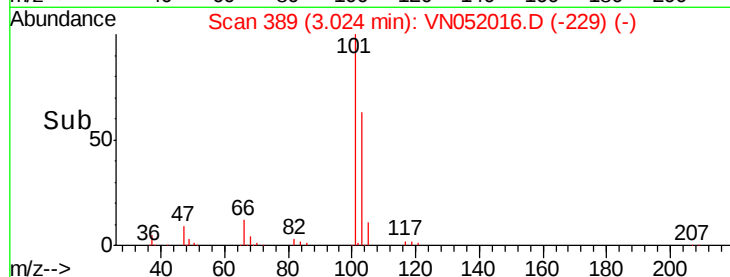
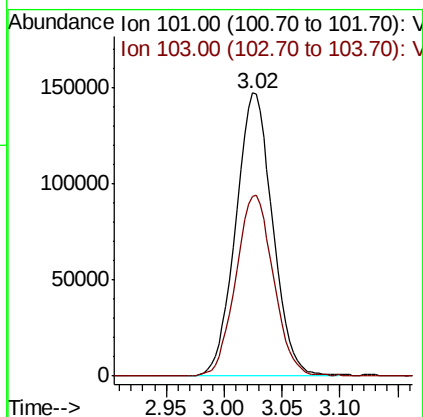
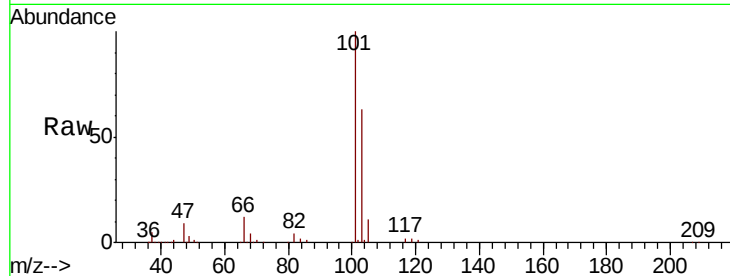
Trichlorofluoromethane
Concen: 20.772 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.01 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
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ClientSampleId :
VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.4	54.8	82.2

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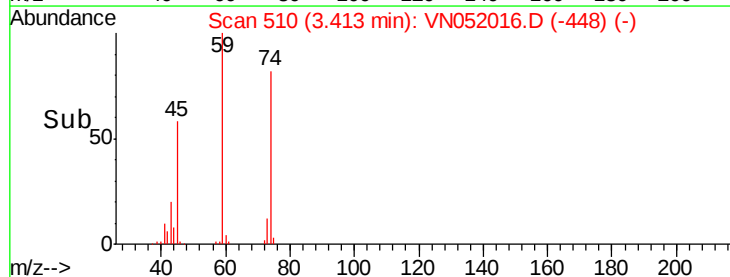
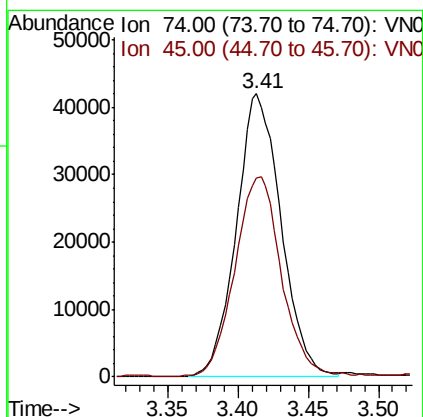
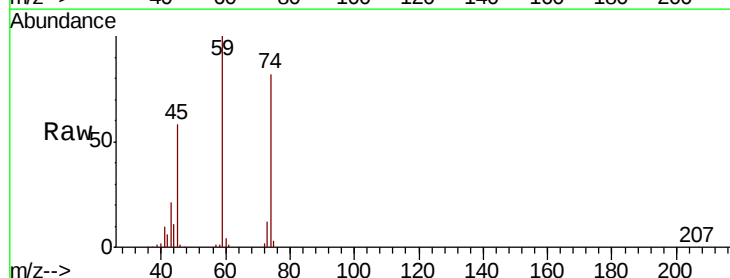
MMDadoda
10/26/2018 9:20:09 AM

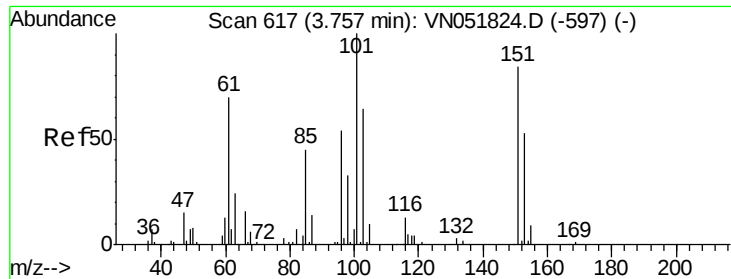


#8

Diethyl Ether
Concen: 20.417 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	73.4	20.7	186.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.313 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.01 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

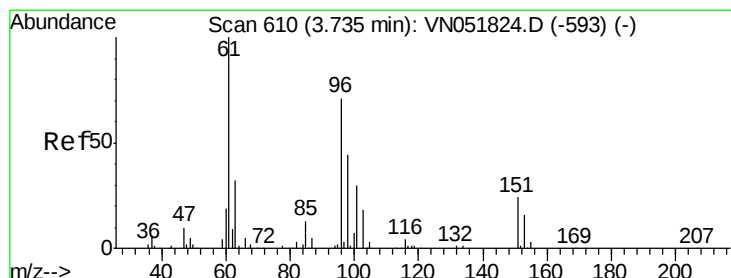
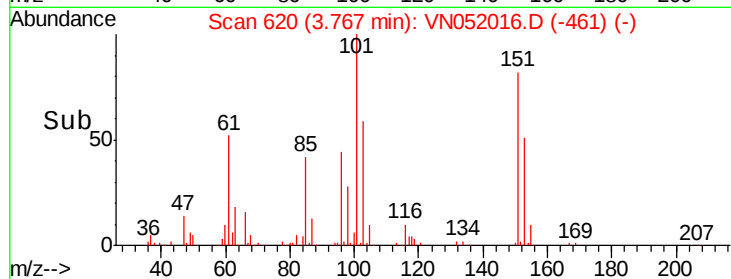
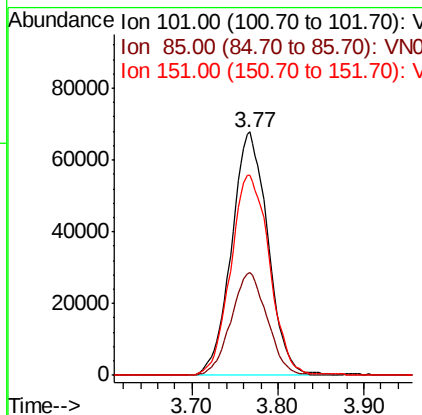
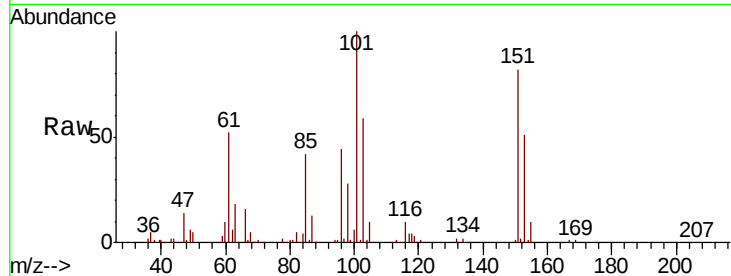
ClientSampleId :

VN1025WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	199051		
85	41.8	0.0	46.0	
151	87.5	0.0	82.2	

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MMDadoda
10/26/2018 9:20:09 AM



#10

1,1-Dichloroethene

Concen: 21.494 ug/l

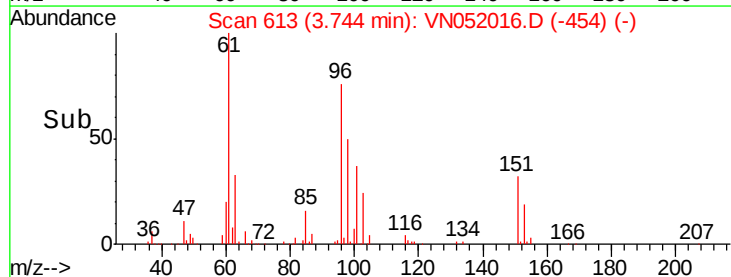
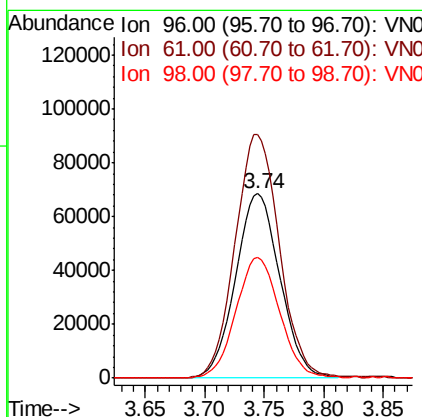
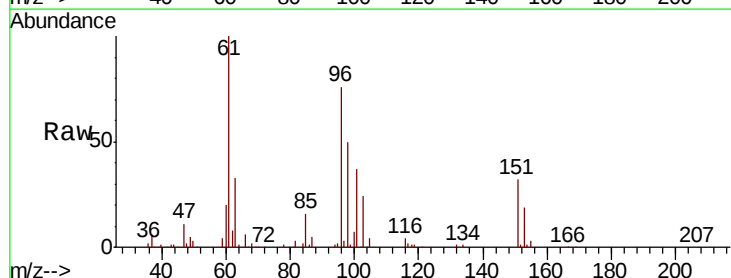
RT: 3.74 min Scan# 613

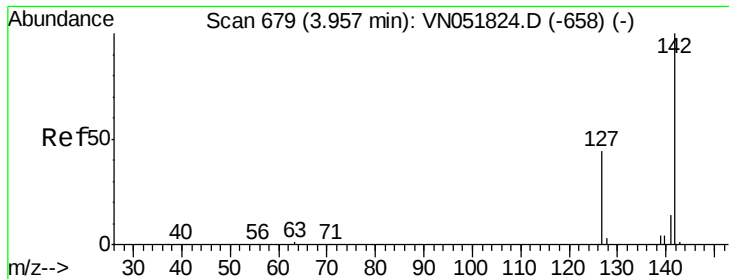
Delta R.T. 0.01 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	177330		
61	131.7	133.0	199.6	
98	65.9	52.6	78.8	





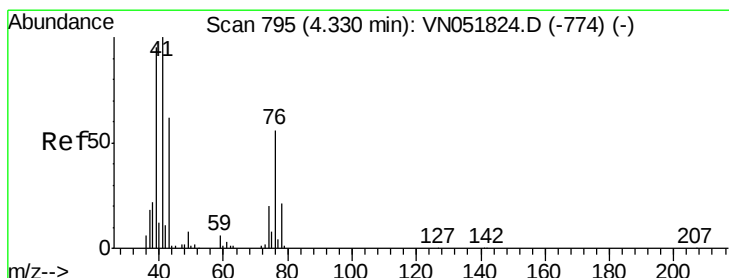
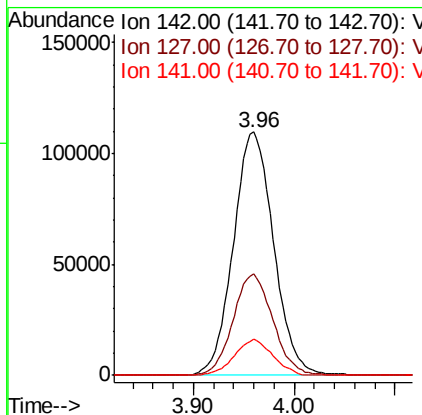
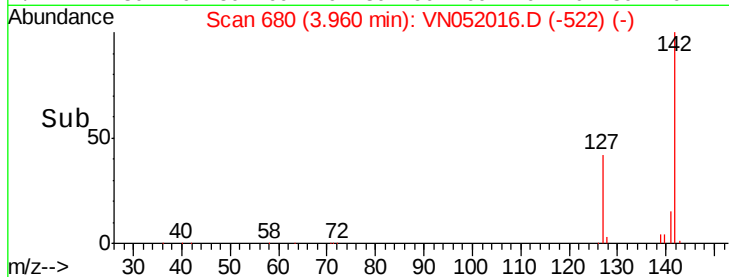
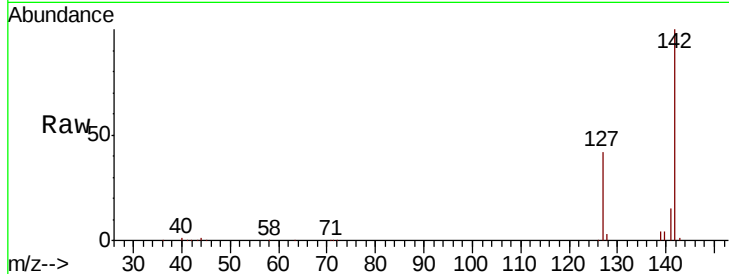
#11
Methyl Iodide
Concen: 25.369 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.01 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
142	100		
127	41.5	19.7	59.0
141	14.7	6.3	18.9

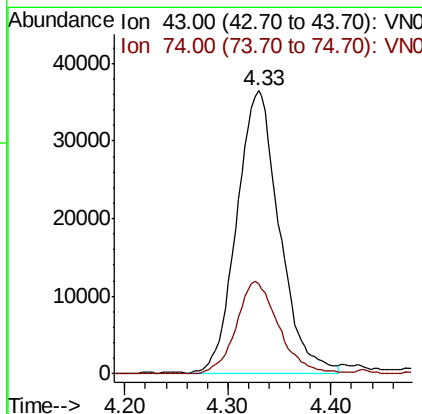
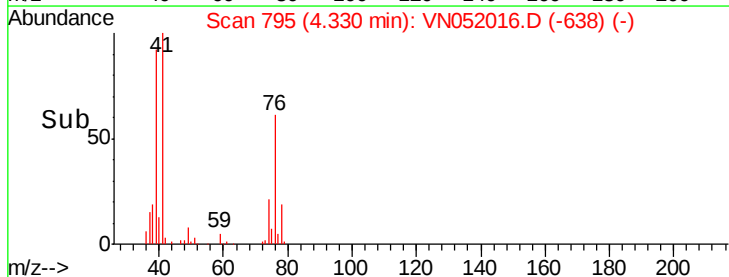
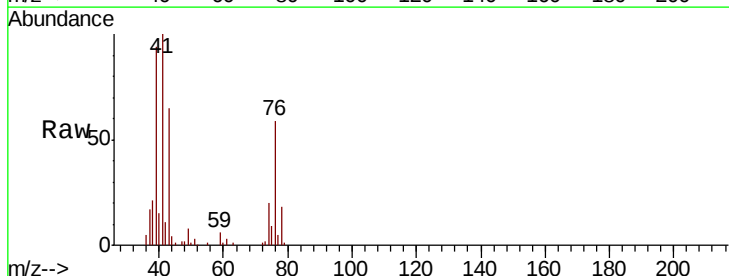
Manual Integrations
APPROVED

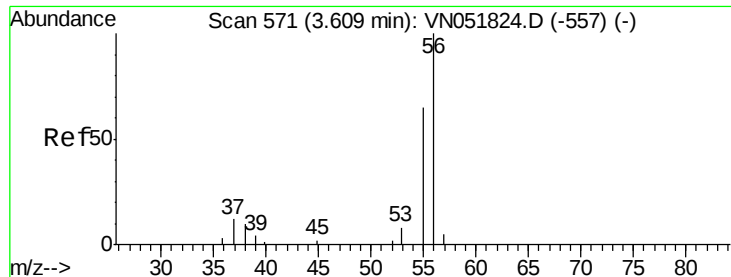
MMDadoda
10/26/2018 9:20:09 AM



#12
Methyl Acetate
Concen: 20.574 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
43	100		
74	31.8	21.8	32.6





#13

Acrolein

Concen: 46.533 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 56 Resp: 15707

Ion Ratio Lower Upper

56 100

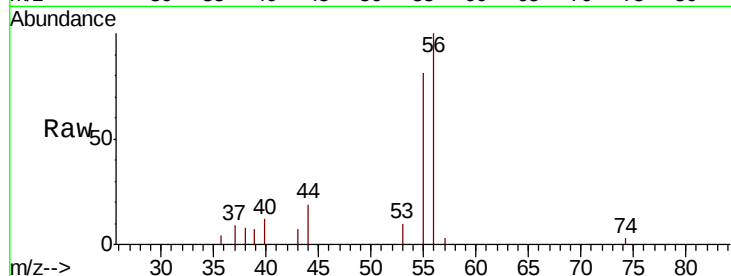
55 78.5 64.0 96.0

Manual Integrations

APPROVED

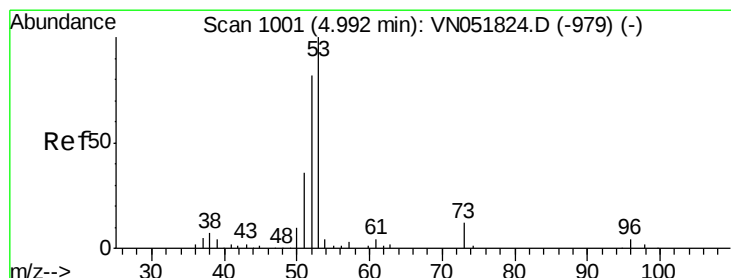
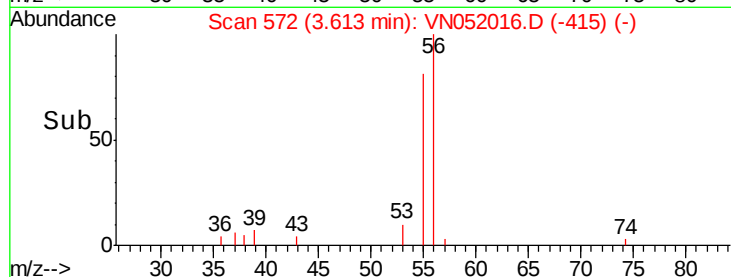
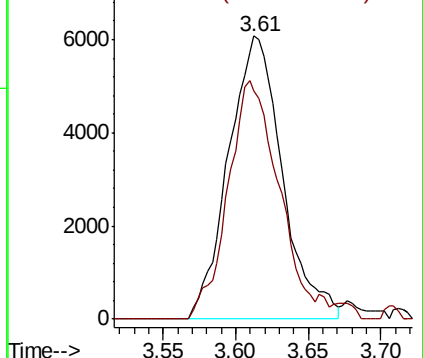
MMDadoda

10/26/2018 9:20:09 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 100.760 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

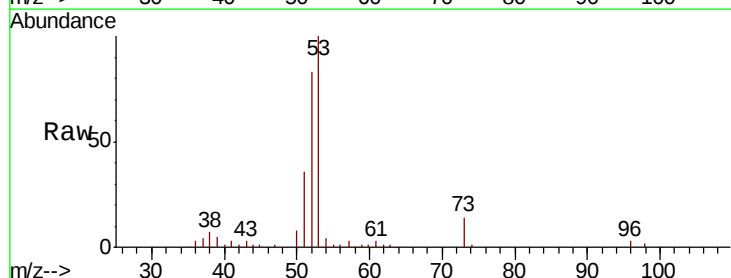
Tgt Ion: 53 Resp: 230711

Ion Ratio Lower Upper

53 100

52 82.8 18.3 54.8#

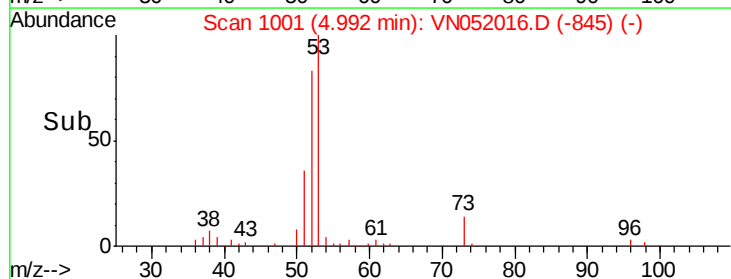
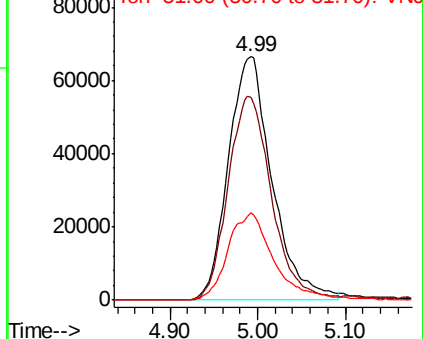
51 37.1 19.7 59.1

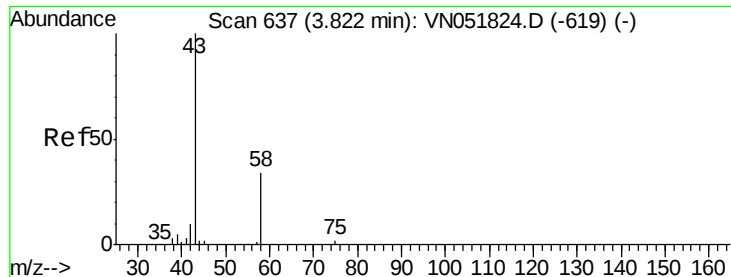


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 95.744 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.01 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 58 Resp: 54193

Ion Ratio Lower Upper

58 100

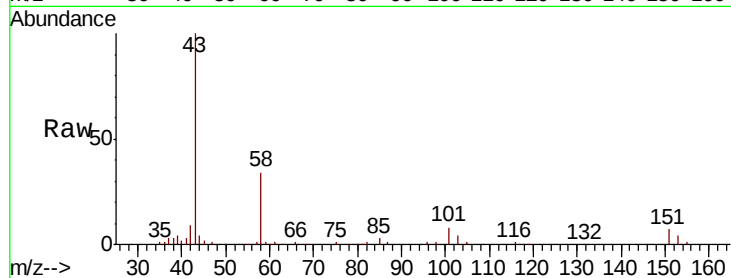
43 295.7 232.2 348.2

Manual Integrations

APPROVED

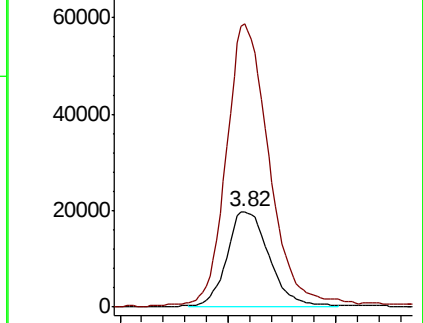
MMDadoda

10/26/2018 9:20:09 AM

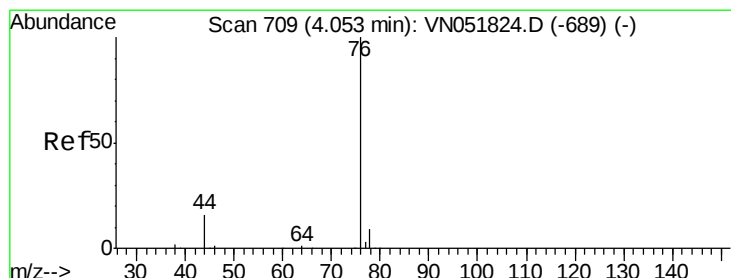
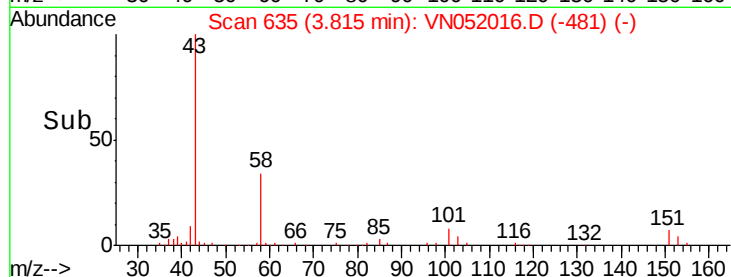


Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



Time-->



#16

Carbon Disulfide

Concen: 17.643 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.01 min

Lab File: VN052016.D

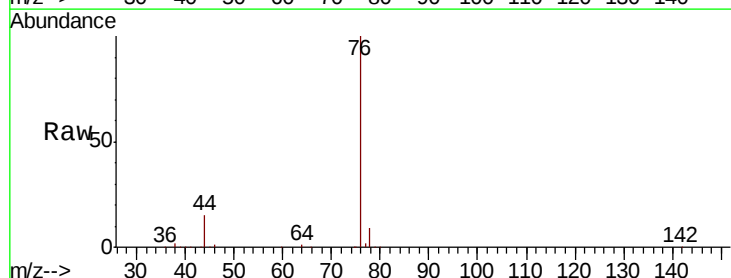
Acq: 25 Oct 2018 17:50

Tgt Ion: 76 Resp: 382278

Ion Ratio Lower Upper

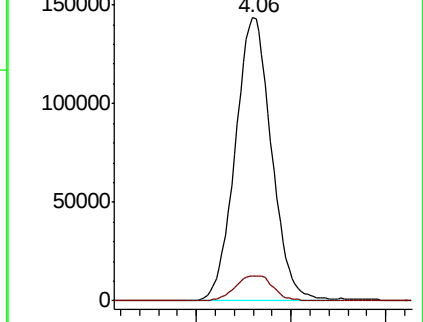
76 100

78 8.9 6.7 10.1

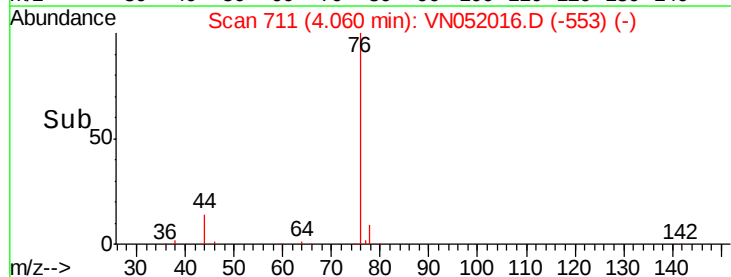


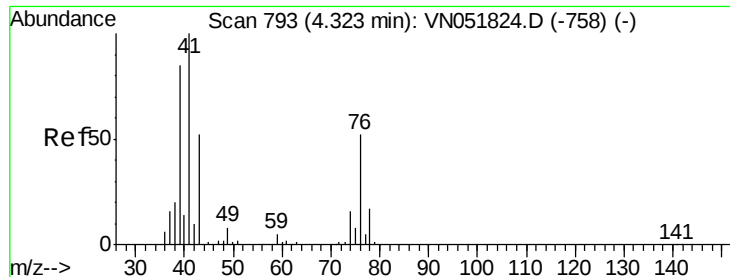
Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0



Time-->





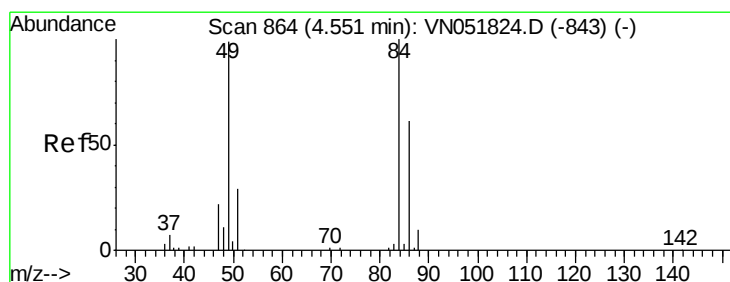
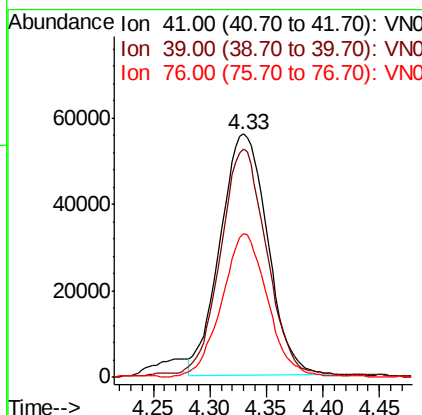
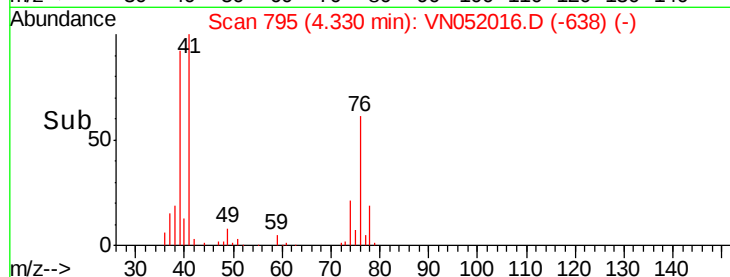
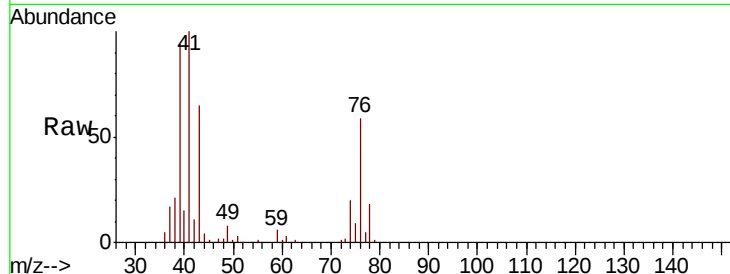
#17
Allvl chloride
Concen: 16.670 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion:	41	Resp:	163284
Ion	Ratio	Lower	Upper
41	100		
39	94.0	32.6	97.8
76	59.4	20.2	60.5

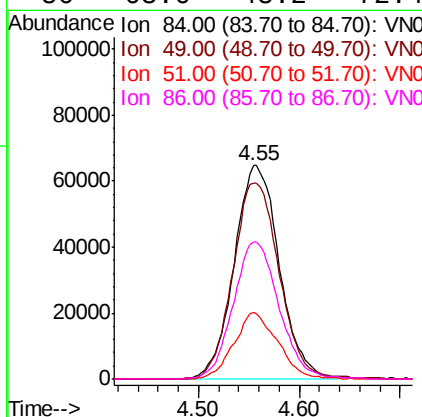
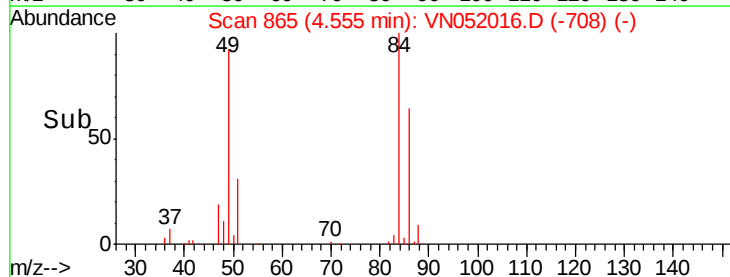
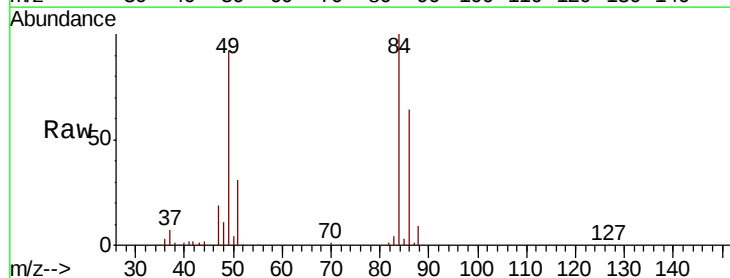
Manual Integrations
APPROVED

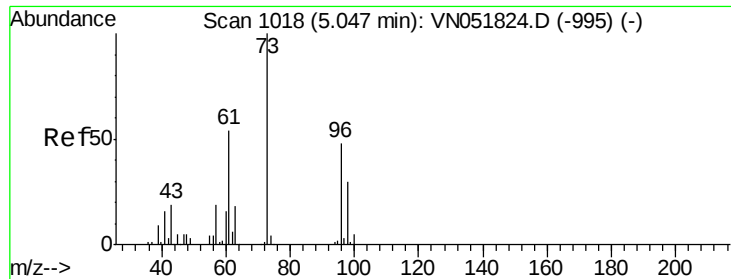
MMDadoda
10/26/2018 9:20:09 AM



#18
Methylene Chloride
Concen: 21.813 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion:	84	Resp:	201219
Ion	Ratio	Lower	Upper
84	100		
49	91.3	91.6	137.4#
51	30.9	29.8	44.6
86	63.6	48.2	72.4





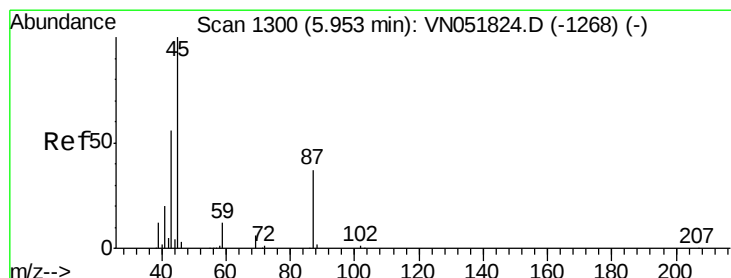
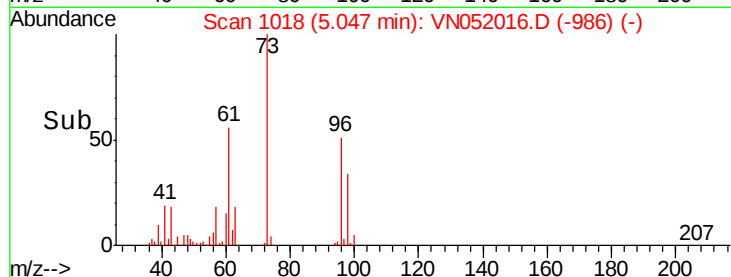
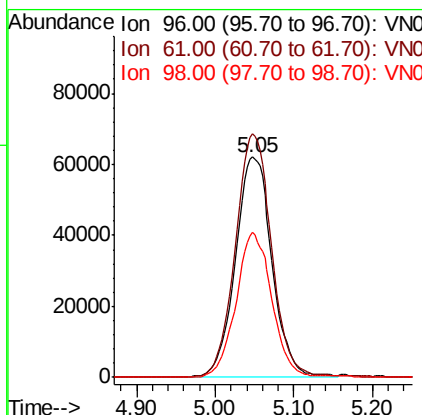
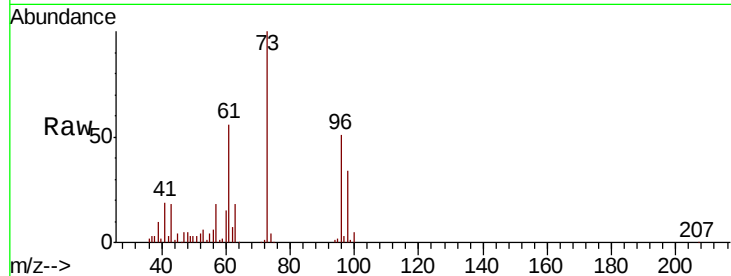
#19
trans-1,2-Dichloroethene
Concen: 21.559 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	110.6	112.3	168.5#
98	66.0	47.1	70.7

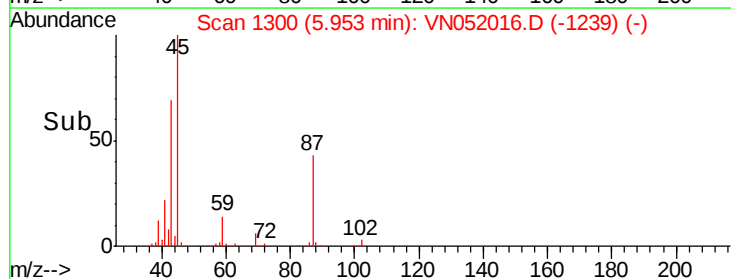
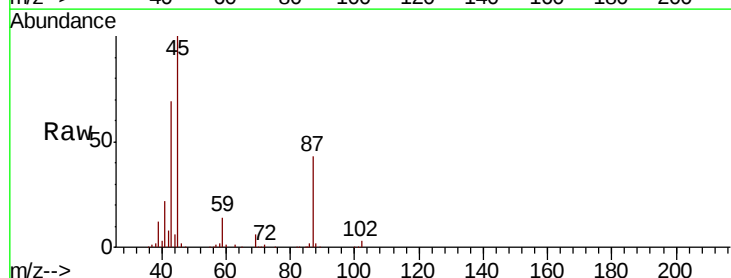
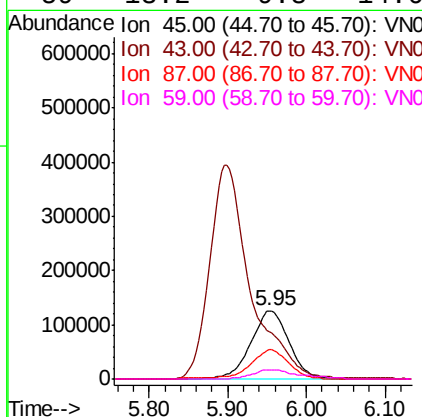
Manual Integrations
APPROVED

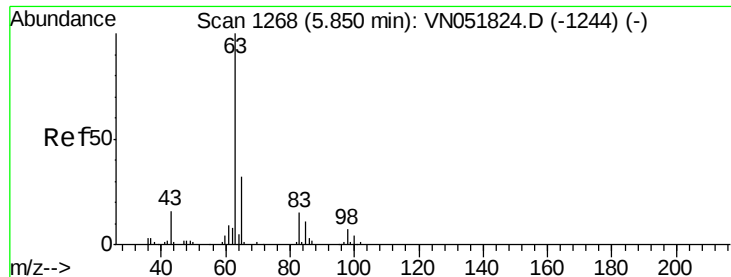
MMDadoda
10/26/2018 9:20:09 AM



#20
Diisopropyl ether
Concen: 19.611 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
45	100		
43	67.0	62.1	93.1
87	42.5	19.9	29.9#
59	13.2	9.8	14.6





#21

1,1-Dichloroethane

Concen: 20.591 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

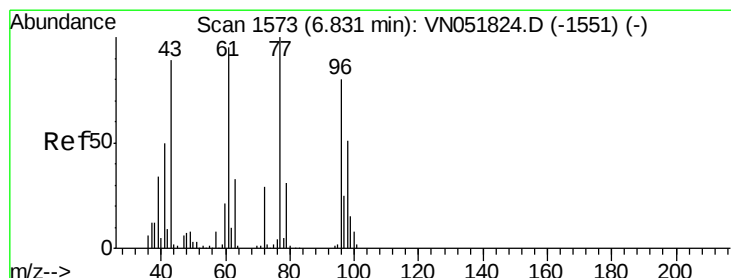
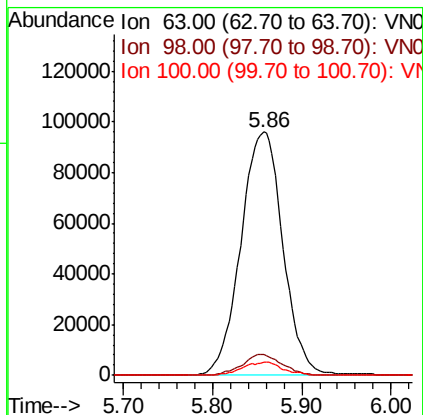
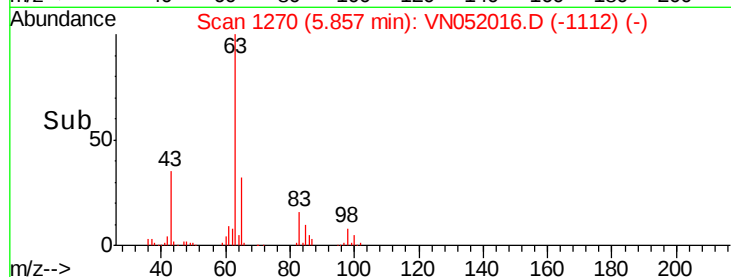
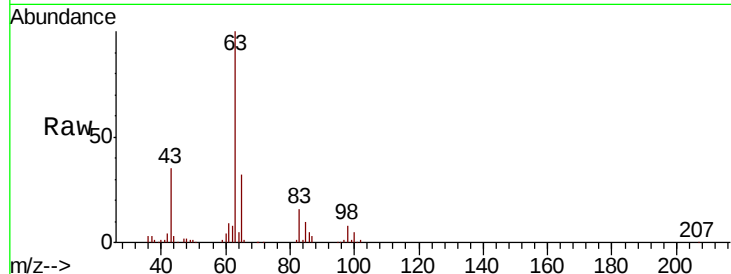
ClientSampleId :

VN1025WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	8.5	4.1	12.3	
100	5.2	1.6	4.7	

Manual Integrations
APPROVED

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#22

cis-1,2-Dichloroethene

Concen: 21.787 ug/l

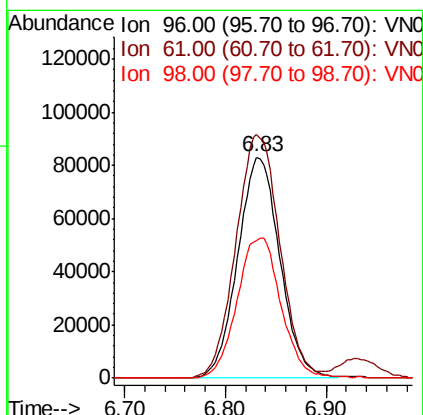
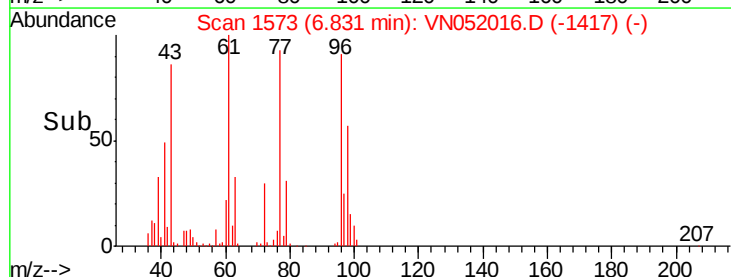
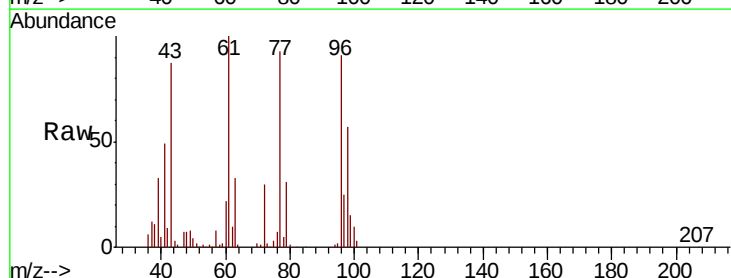
RT: 6.83 min Scan# 1573

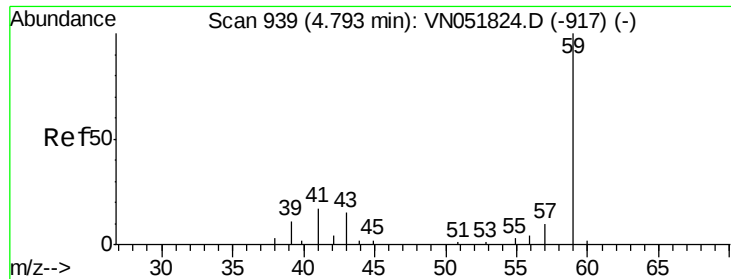
Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	114.8	124.5	186.7	
98	65.8	51.9	77.9	





#23

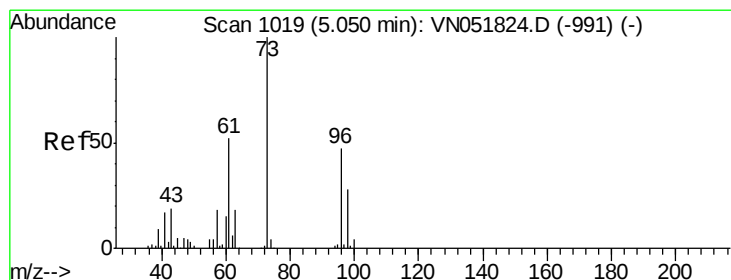
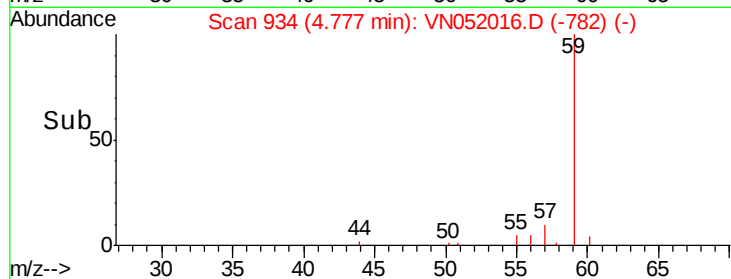
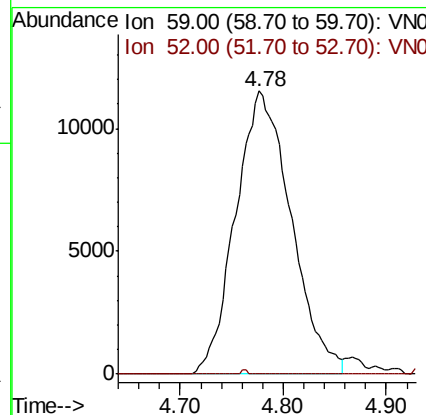
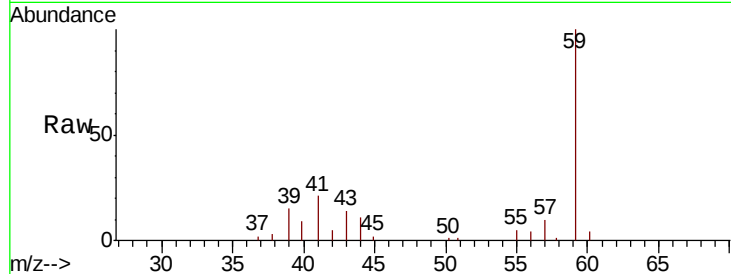
tert-Butyl Alcohol
 Concen: 71.539 ug/l
 RT: 4.78 min Scan# 934
 Delta R.T. -0.01 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.0	0.0#

Manual Integrations
 APPROVED

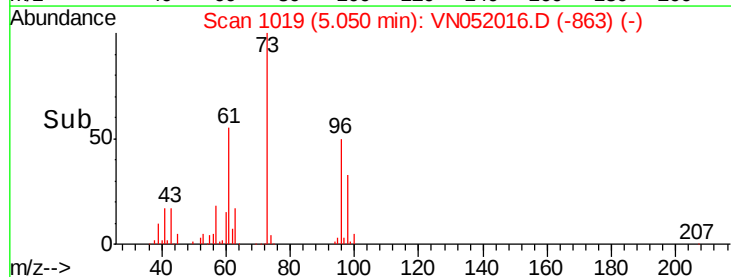
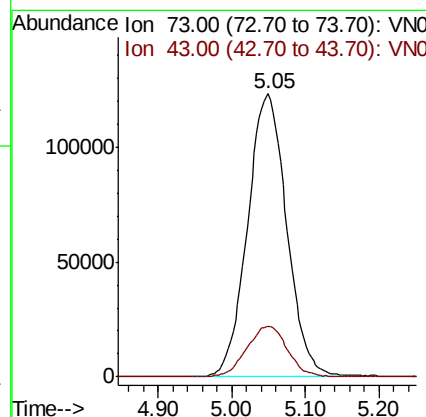
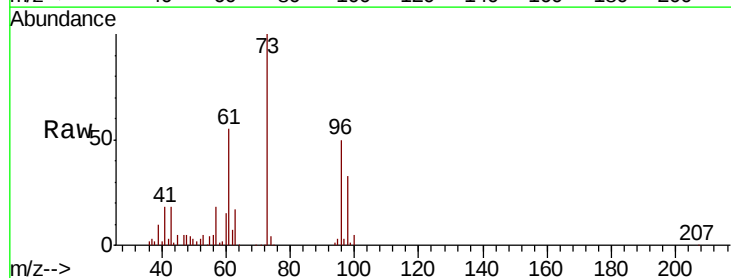
MMDadoda
 10/26/2018 9:20:09 AM

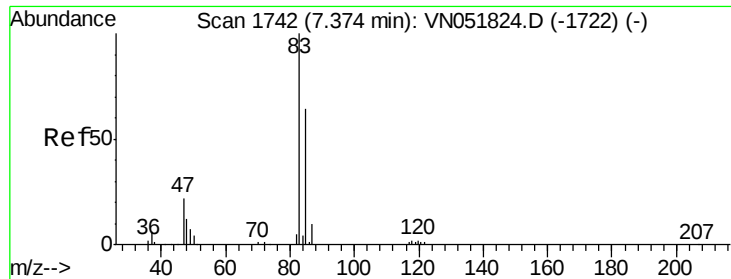


#24

Methyl tert-Butyl Ether
 Concen: 19.161 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
73	100		
43	18.3	5.4	8.0#





#25

Chloroform

Concen: 21.401 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 83 Resp: 387003

Ion Ratio Lower Upper

83 100

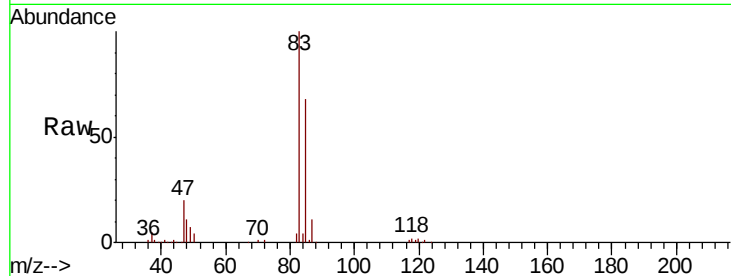
85 68.4 54.6 82.0

Manual Integrations

APPROVED

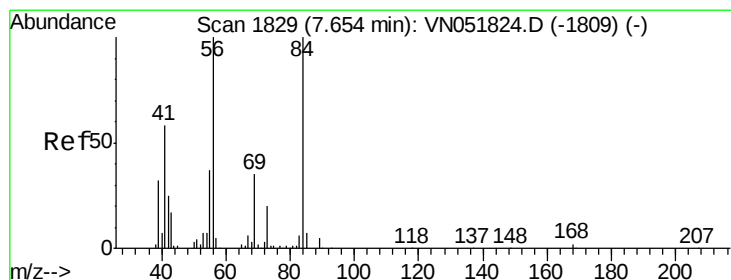
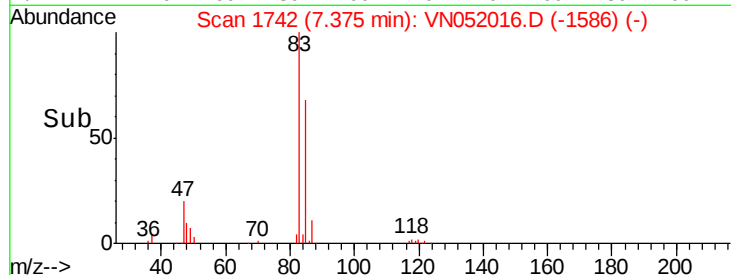
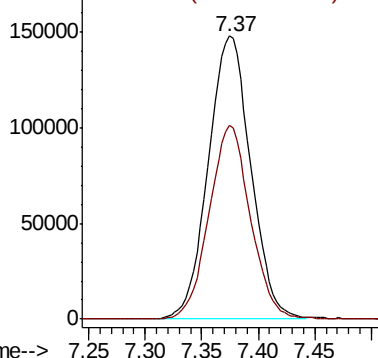
MMDadoda

10/26/2018 9:20:09 AM



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#26

Cyclohexane

Concen: 18.823 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

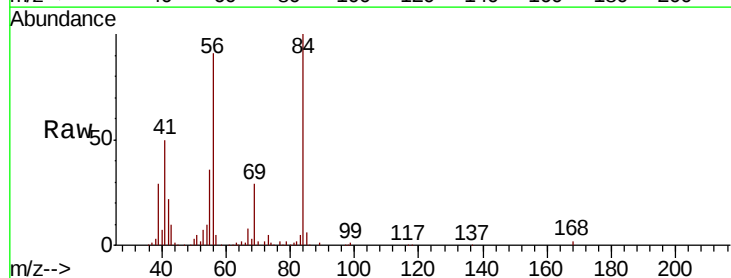
Tgt Ion: 56 Resp: 243246

Ion Ratio Lower Upper

56 100

89 1.5 1.5 2.3#

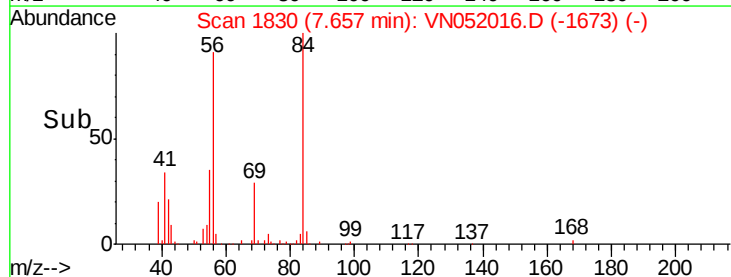
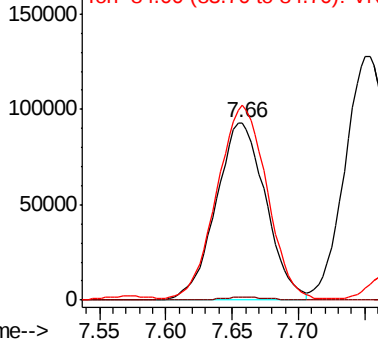
84 110.9 64.2 96.4#

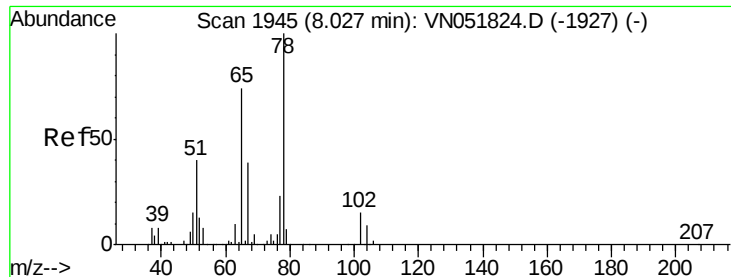


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 18.823 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 65 Resp: 301184

Ion Ratio Lower Upper

65 100

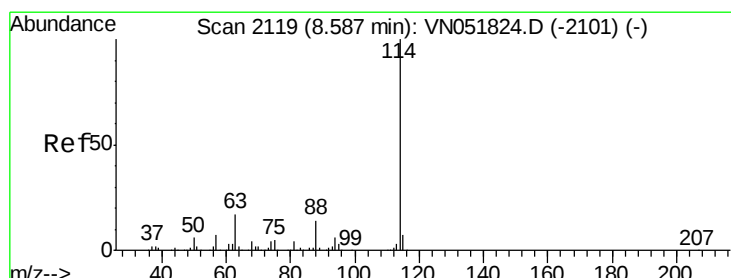
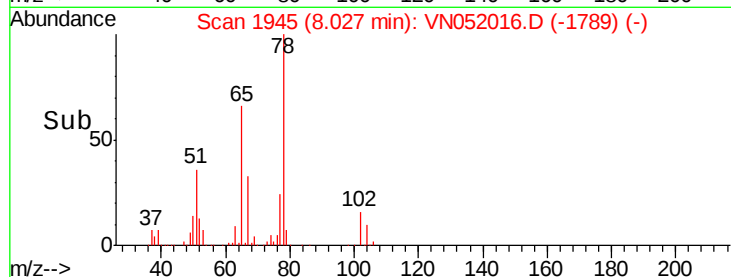
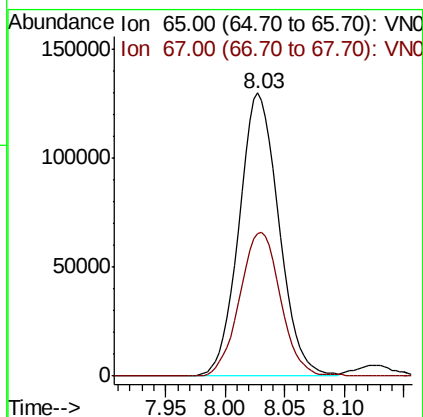
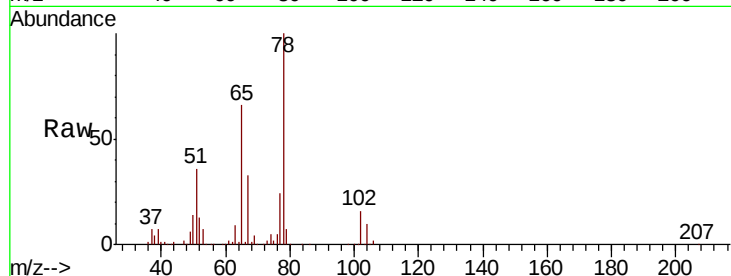
67 52.2 41.8 62.8

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

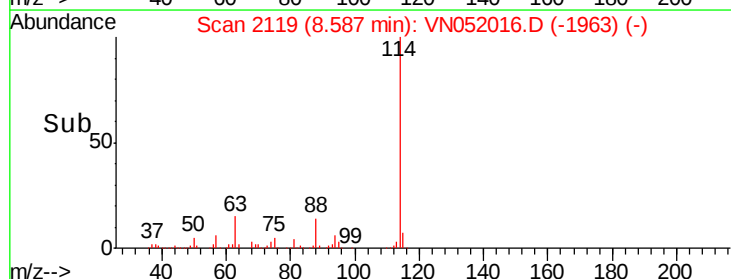
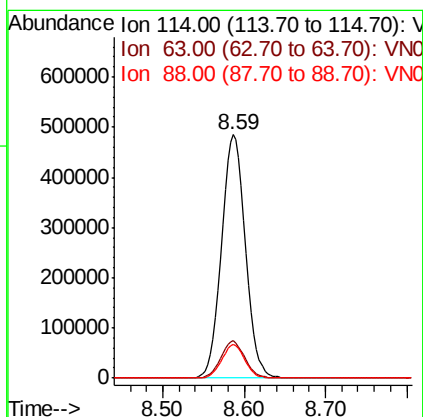
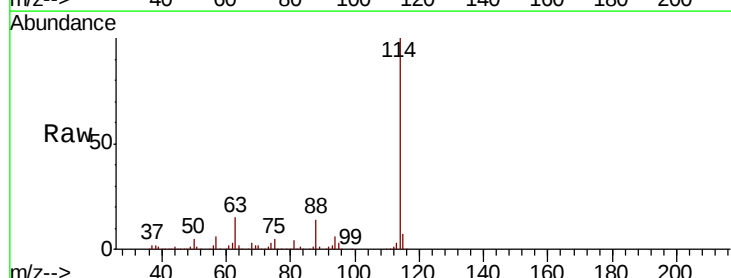
Tgt Ion: 114 Resp: 1006671

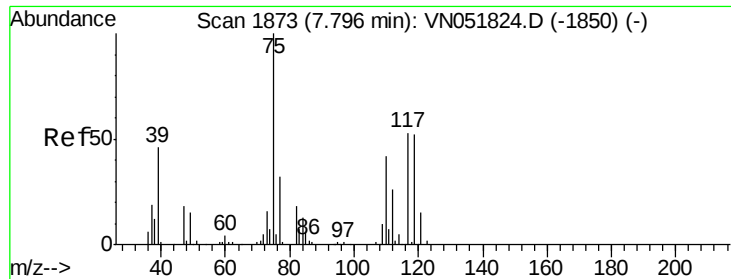
Ion Ratio Lower Upper

114 100

63 15.4 16.2 24.2#

88 13.4 12.2 18.4





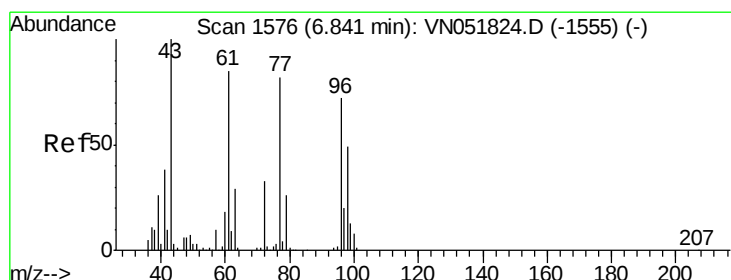
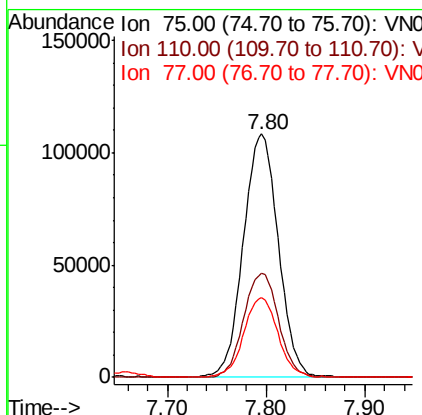
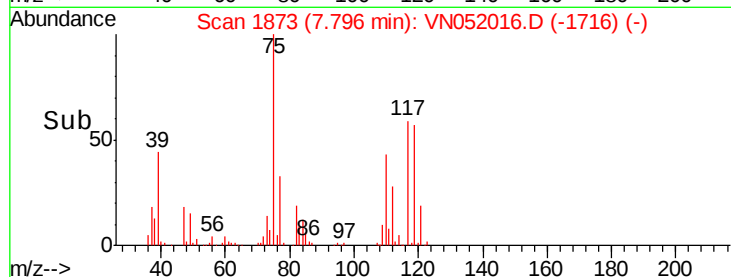
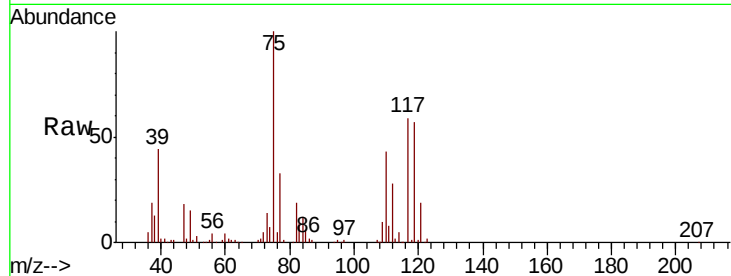
#29
 1,1-Dichloropropene
 Concen: 20.486 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	42.4	0.0	70.8
77	32.0	0.0	61.6

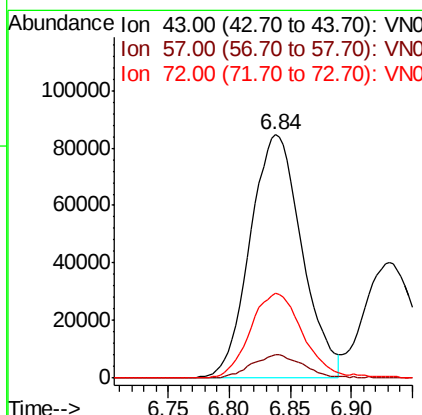
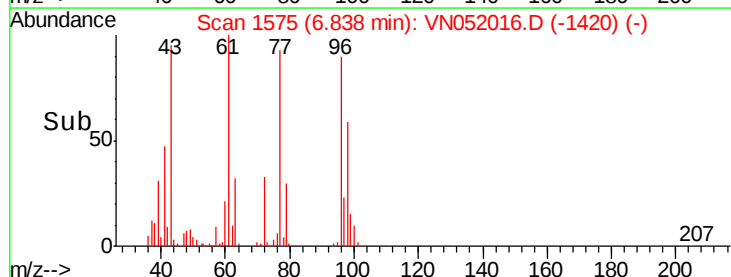
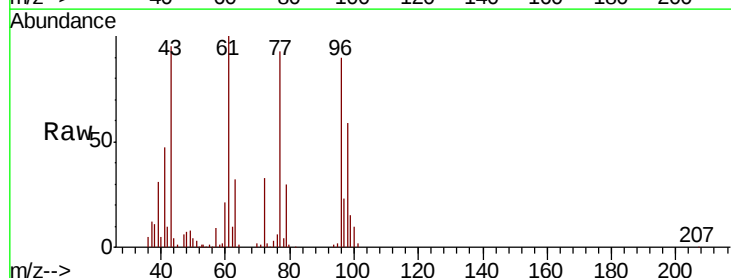
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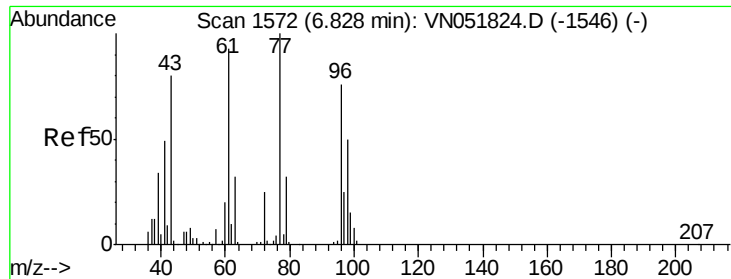
MMDadoda
 10/26/2018 9:20:09 AM



#30
 2-Butanone
 Concen: 91.208 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. -0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	9.6	4.5	6.7#
72	35.4	21.5	32.3#





#31

2,2-Dichloropropane

Concen: 18.056 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 77 Resp: 275628

Ion Ratio Lower Upper

77 100

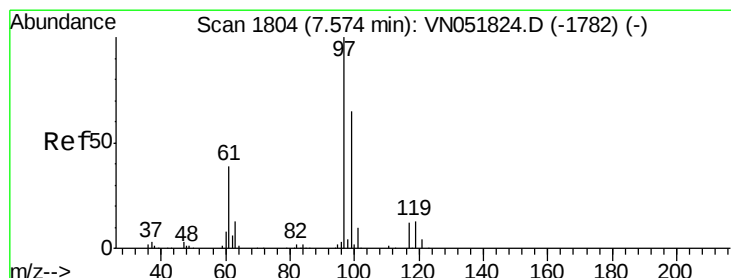
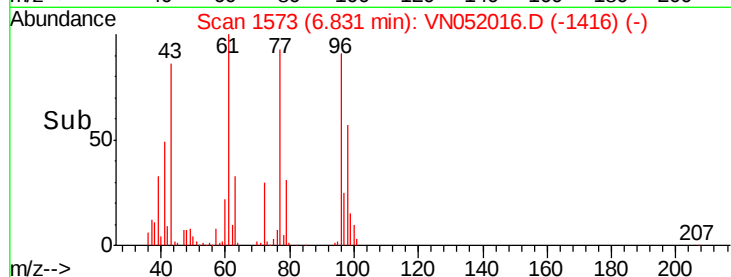
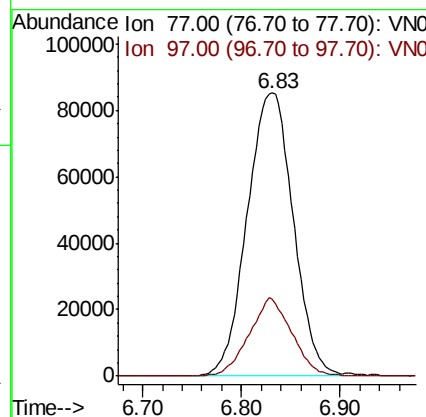
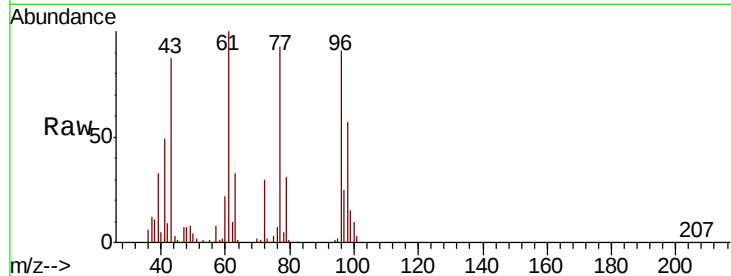
97 25.6 12.0 18.0#

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#32

1,1,1-Trichloroethane

Concen: 20.123 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

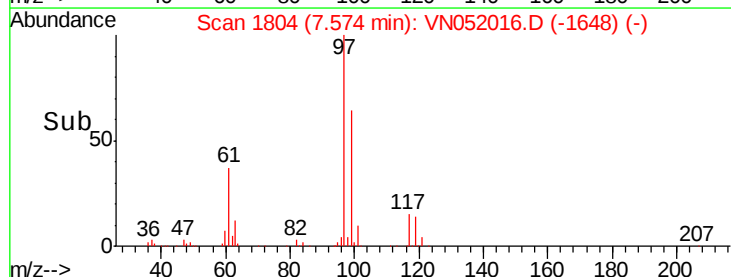
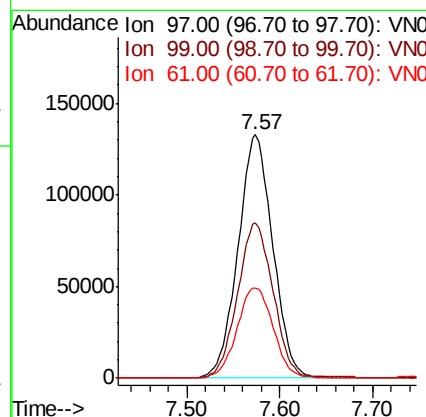
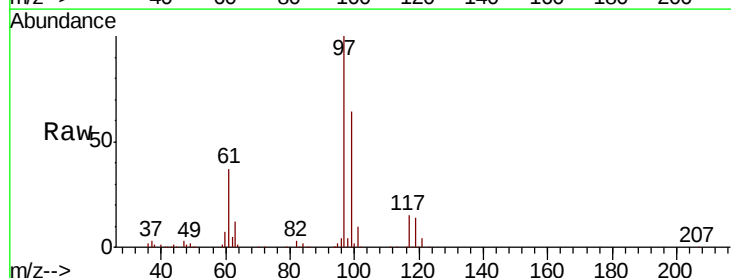
Tgt Ion: 97 Resp: 346184

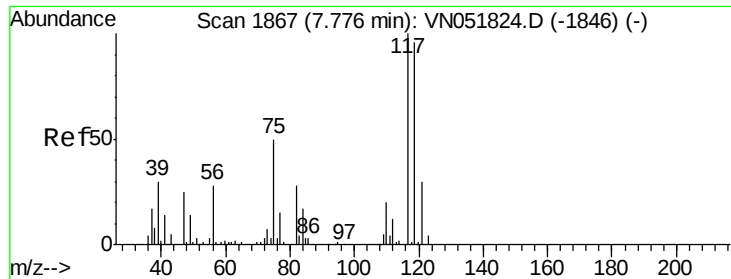
Ion Ratio Lower Upper

97 100

99 65.1 51.6 77.4

61 38.5 37.4 56.0





#33

Carbon Tetrachloride

Concen: 20.045 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

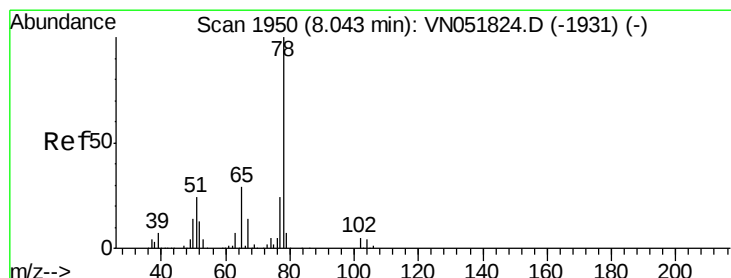
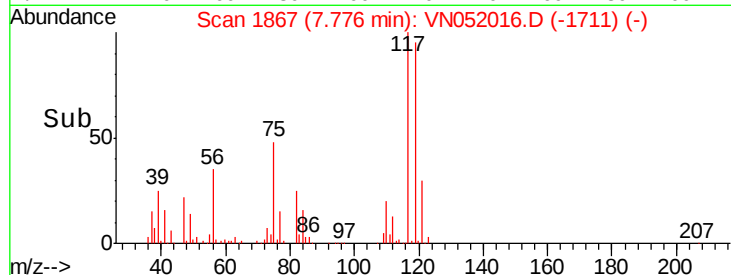
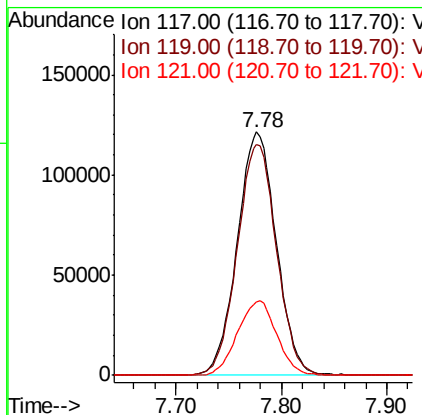
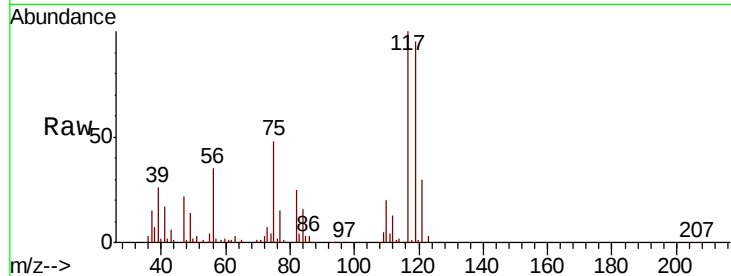
ClientSampleId :

VN1025WBSD02

Tot Ion:	117	Resp:	311990
Ion	Ratio	Lower	Upper
117	100		
119	94.9	85.1	127.7
121	30.2	24.2	36.2

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#34

Benzene

Concen: 21.389 ug/l

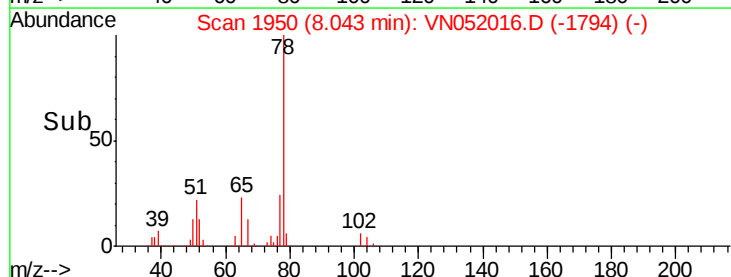
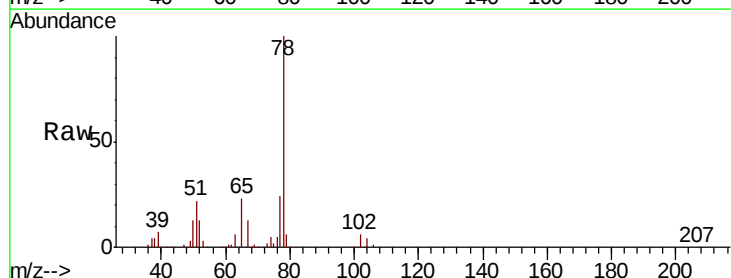
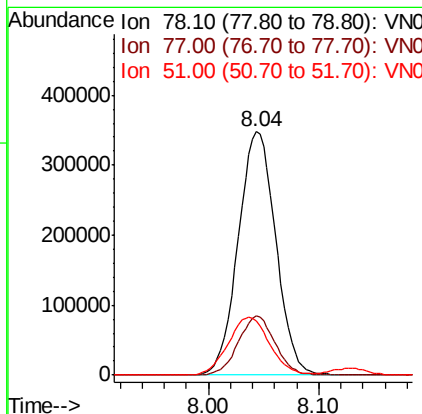
RT: 8.04 min Scan# 1950

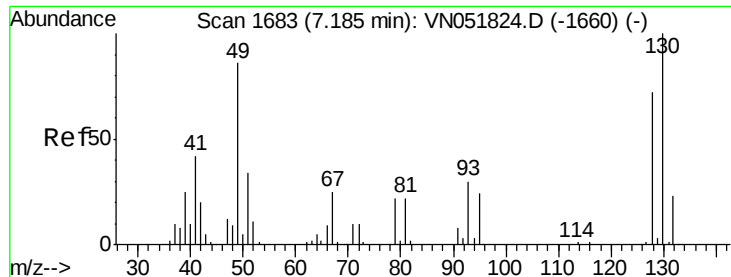
Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Tgt Ion:	78	Resp:	820985
Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.8	28.2
51	22.2	46.2	69.4#





#35

Methacrylonitrile

Concen: 13.786 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.02 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 41 Resp: 49125

Ion Ratio Lower Upper

41 100

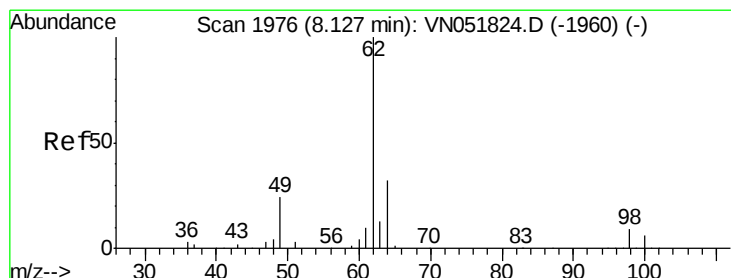
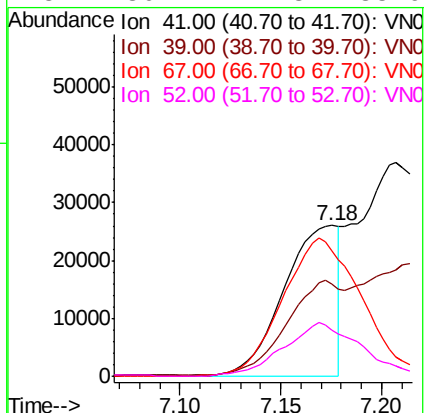
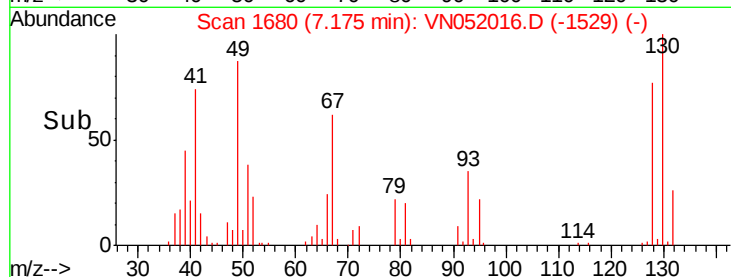
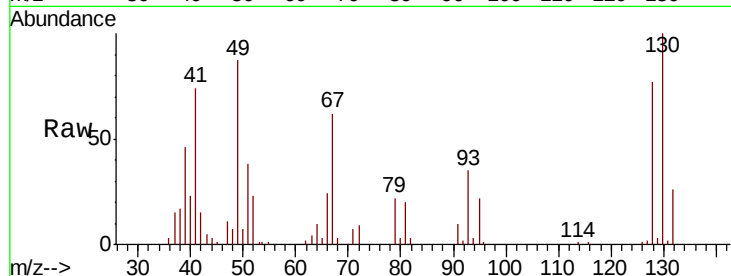
39 60.3 22.6 67.7

67 82.8 28.9 86.8

52 30.4 11.3 33.9

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#36

1,2-Dichloroethane

Concen: 20.568 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN052016.D

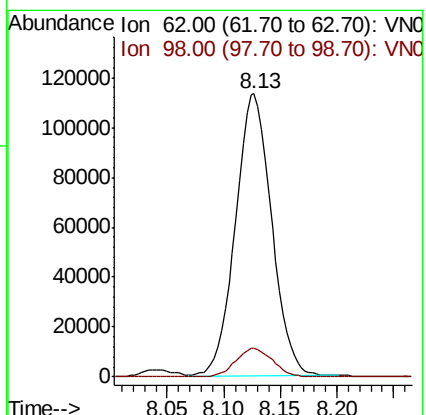
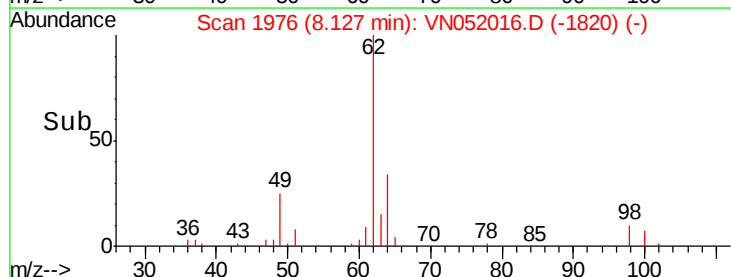
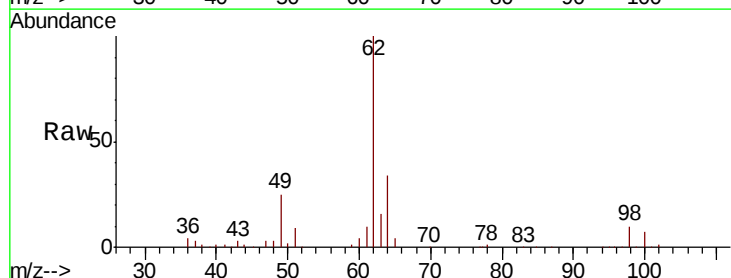
Acq: 25 Oct 2018 17:50

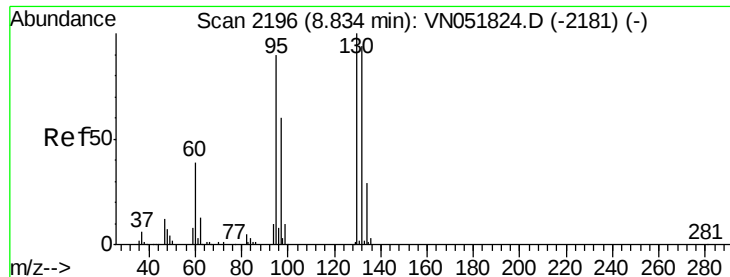
Tgt Ion: 62 Resp: 252954

Ion Ratio Lower Upper

62 100

98 10.4 6.9 10.3#





#37

Trichloroethene

Concen: 21.729 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion:130 Resp: 258904

Ion Ratio Lower Upper

130 100

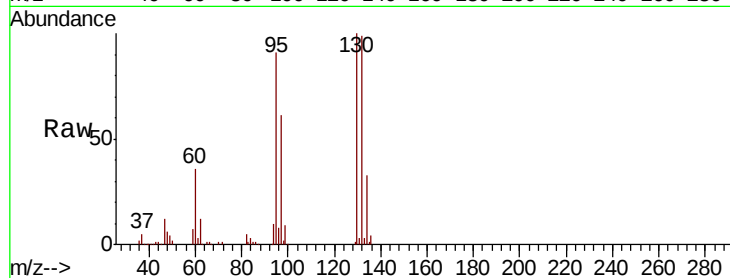
95 90.9 76.4 114.6

Manual Integrations

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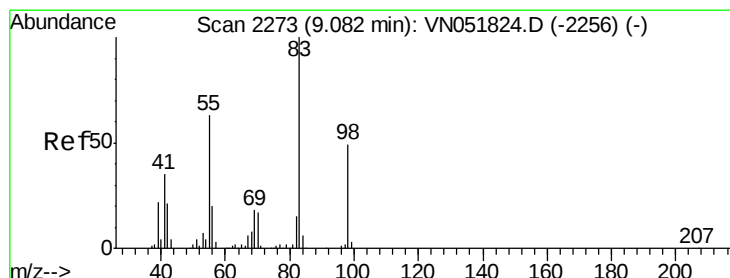
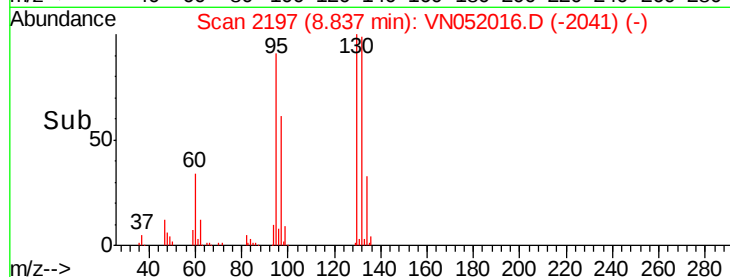
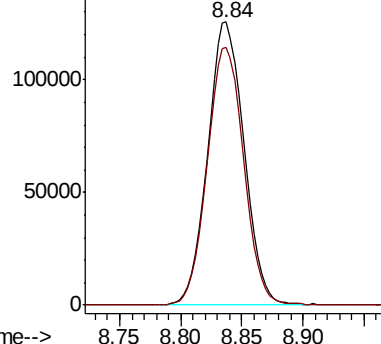
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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN



#38

Methylcyclohexane

Concen: 18.992 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

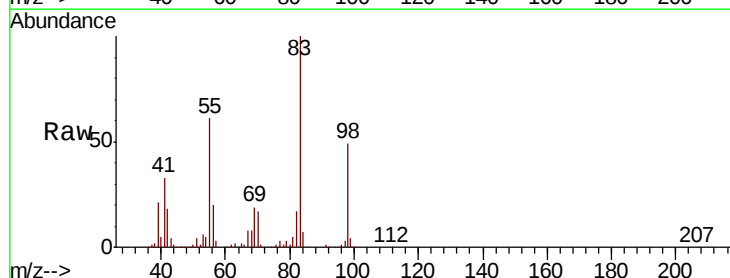
Tgt Ion: 83 Resp: 316084

Ion Ratio Lower Upper

83 100

55 60.3 43.0 129.2

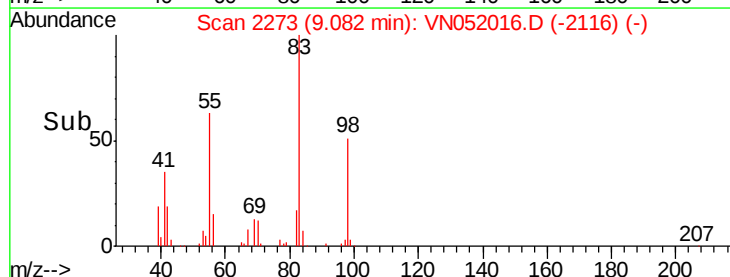
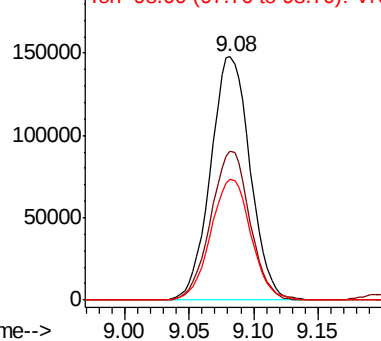
98 50.4 21.3 63.7

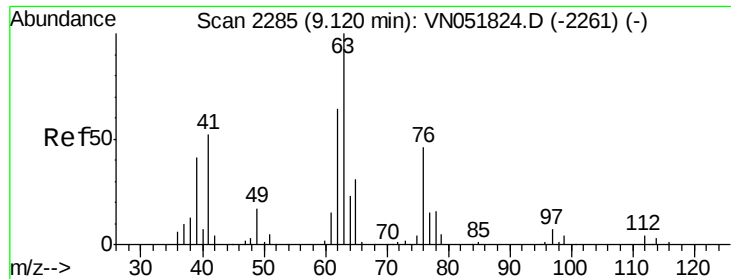


Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN





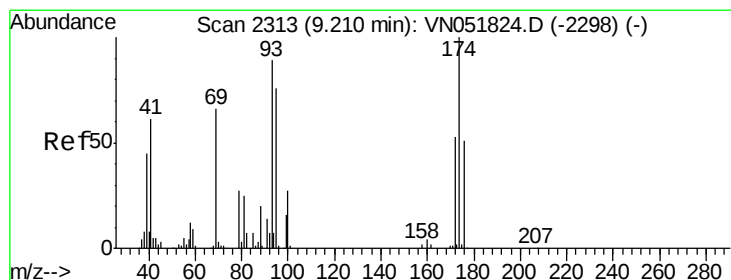
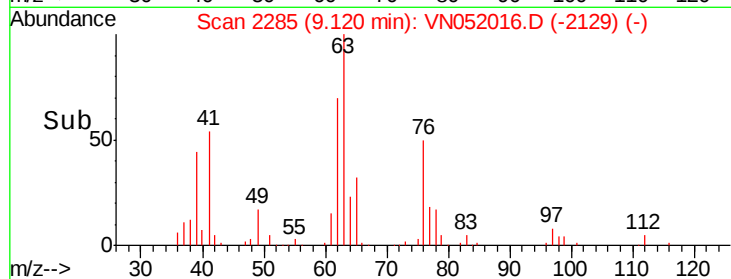
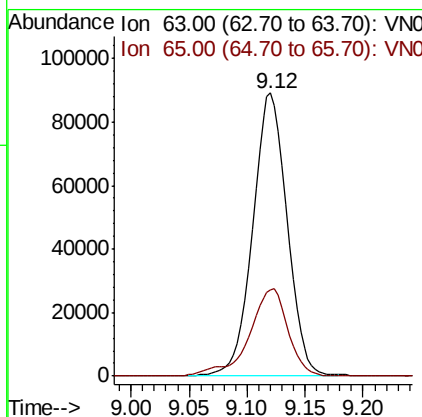
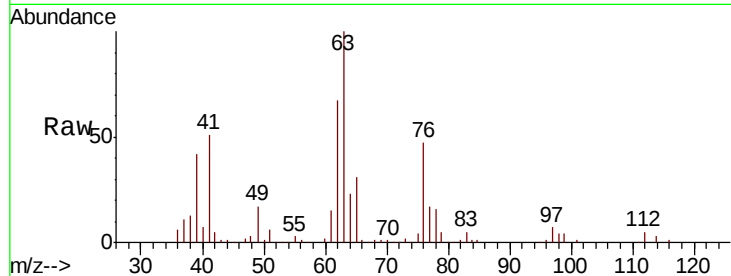
#39
 1,2-Dichloropropane
 Concen: 20.373 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion: 63 Resp: 184156
 Ion Ratio Lower Upper
 63 100
 65 30.7 23.2 34.8

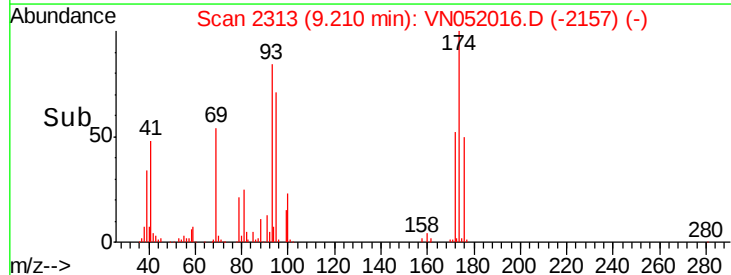
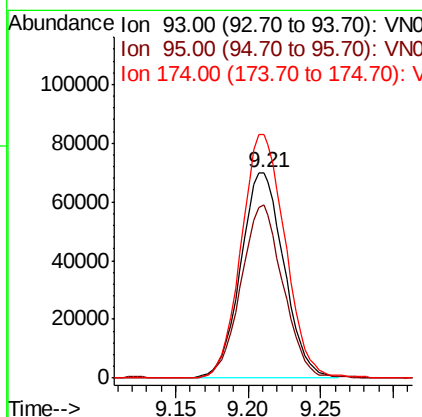
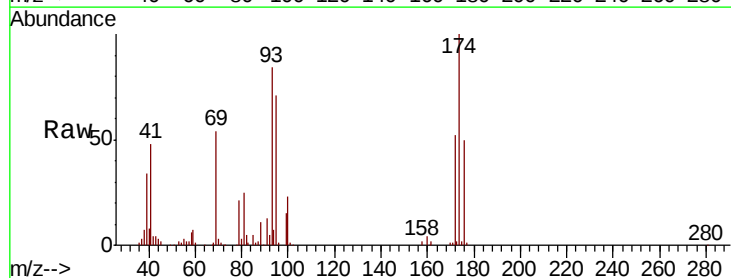
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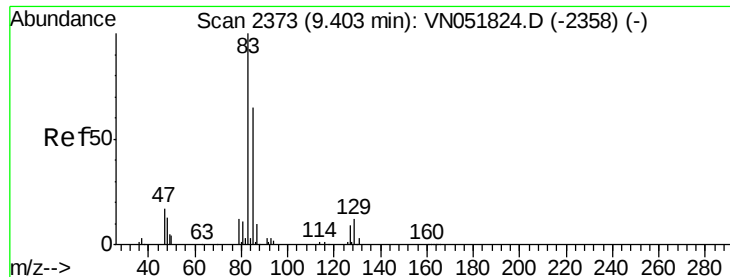
MMDadoda
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#40
 Dibromomethane
 Concen: 21.592 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion: 93 Resp: 144855
 Ion Ratio Lower Upper
 93 100
 95 82.1 0.0 162.0
 174 120.5 0.0 214.0





#41

Bromodichloromethane

Concen: 19.853 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

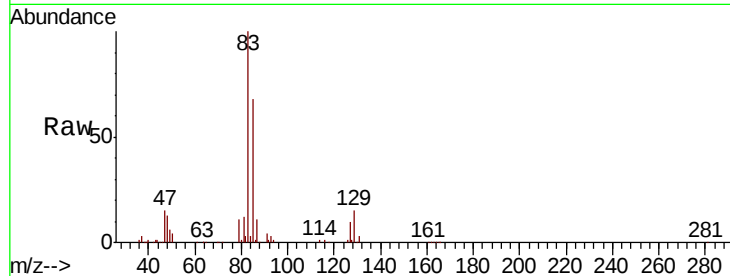
ClientSampleId :

VN1025WBSD02

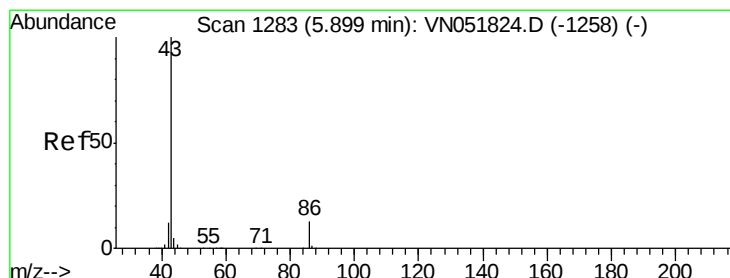
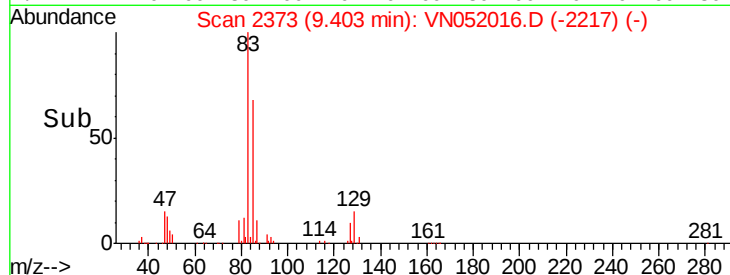
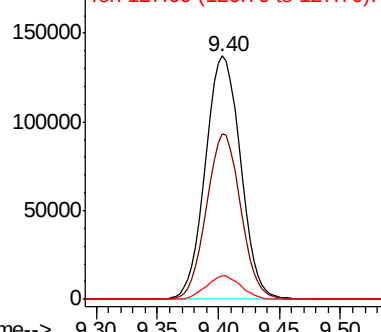
Tot Ion:	83	Resp:	275110
Ion	Ratio	Lower	Upper
83	100		
85	67.9	55.7	83.5
127	9.7	8.2	12.4

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VN051824.D (-2358) (-)



#42

Vinyl Acetate

Concen: 92.260 ug/l

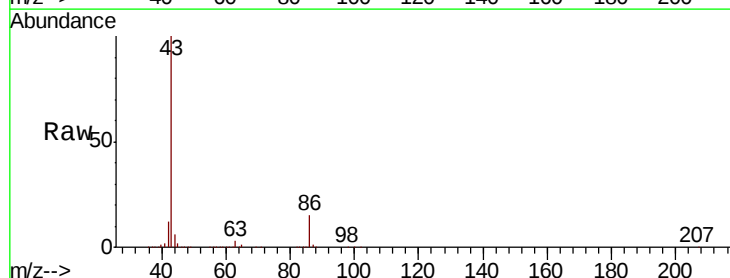
RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

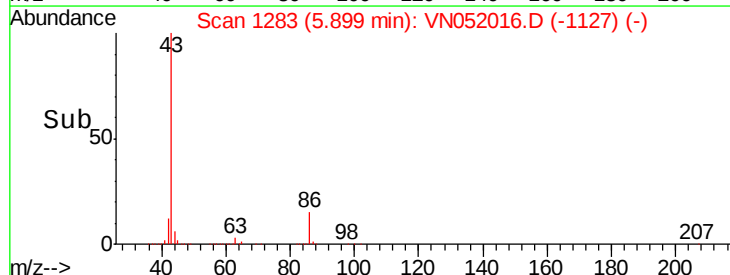
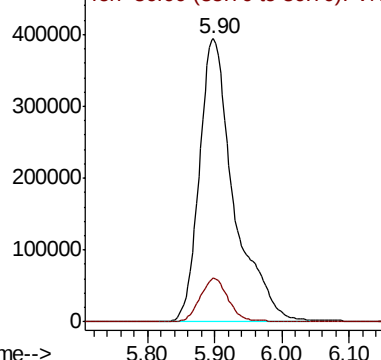
Lab File: VN052016.D

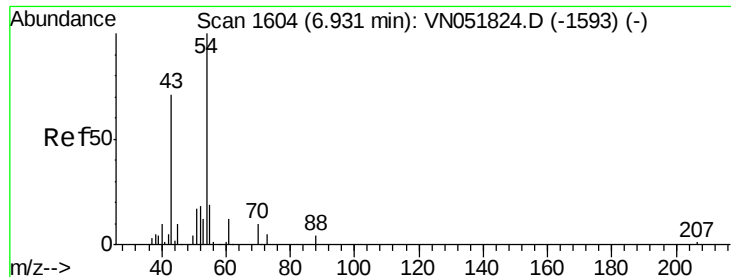
Acq: 25 Oct 2018 17:50

Tgt Ion:	43	Resp:	1408586
Ion	Ratio	Lower	Upper
43	100		
86	12.5	6.5	9.7#



Abundance Ion 43.00 (42.70 to 43.70): VN051824.D (-1258) (-)





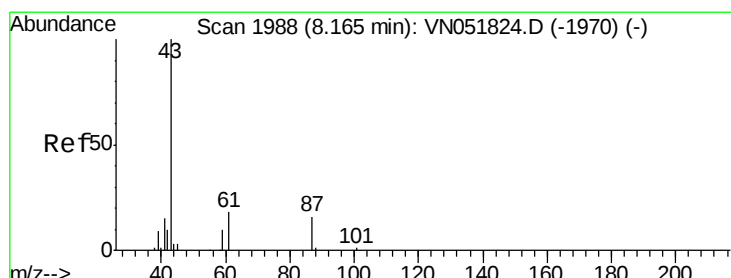
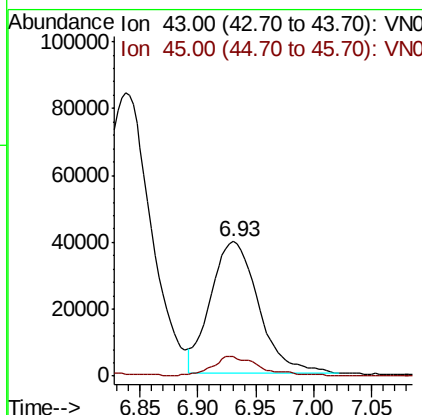
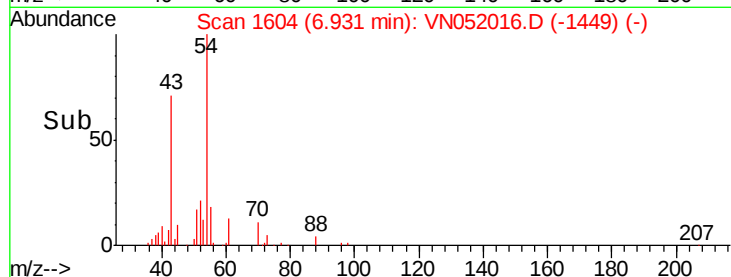
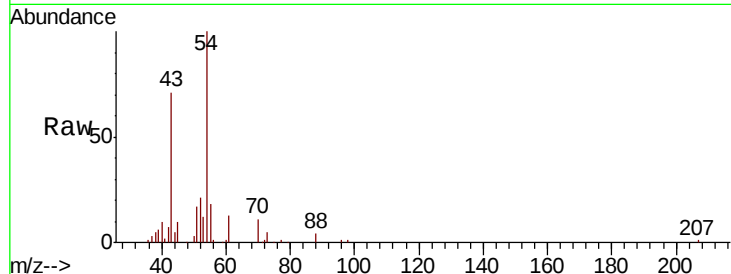
#43
Ethyl Acetate
Concen: 19.210 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion	43	Ratio	Lower	Upper
113131	100			
45	12.7	11.0	16.6	

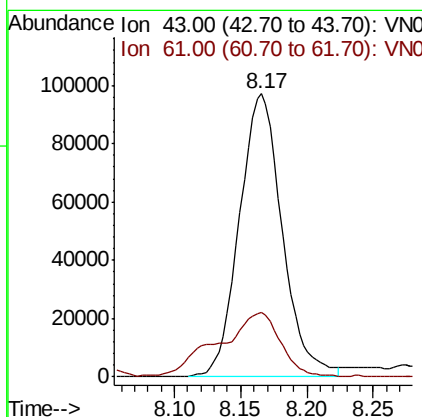
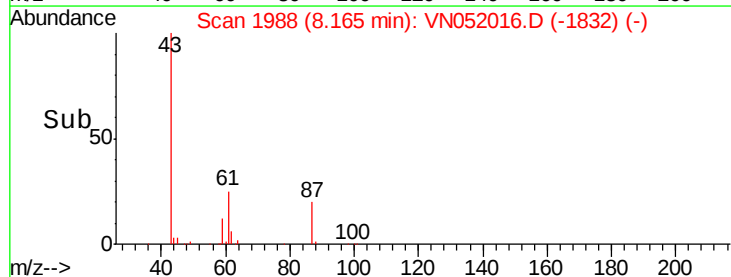
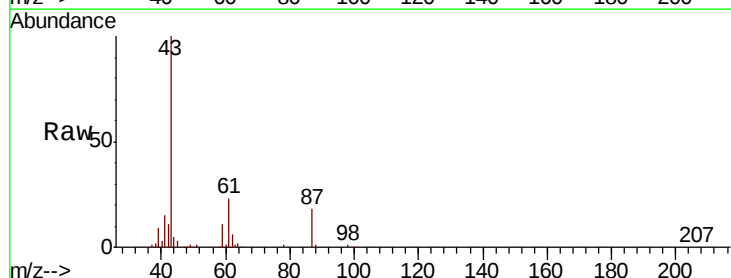
Manual Integrations
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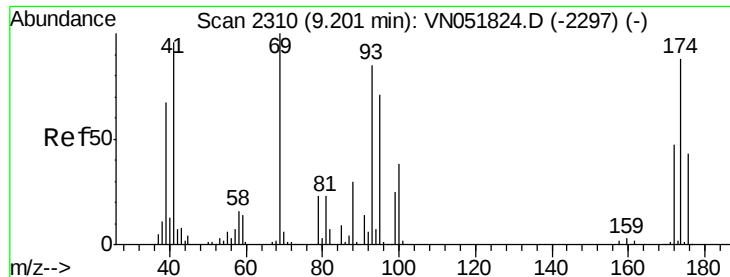
MMDadoda
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#44
Isopropyl Acetate
Concen: 18.441 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion	43	Ratio	Lower	Upper
216916	100			
61	21.6	15.9	23.9	





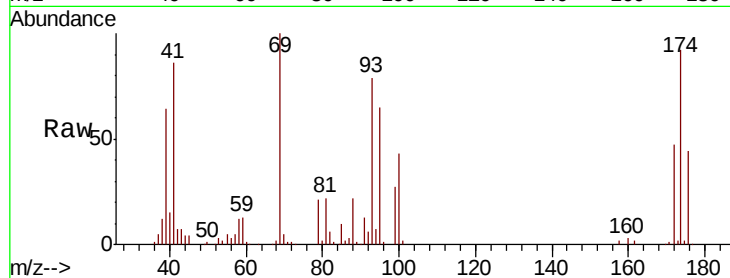
#45
 1,4-Dioxane
 Concen: 291.138 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

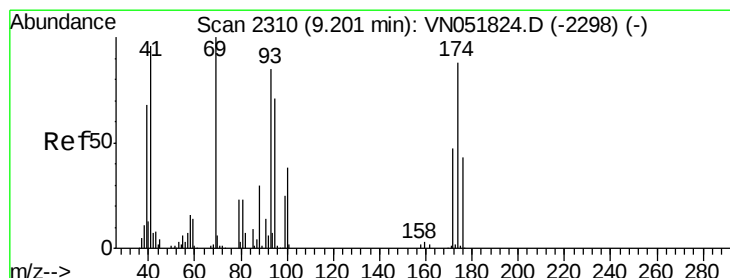
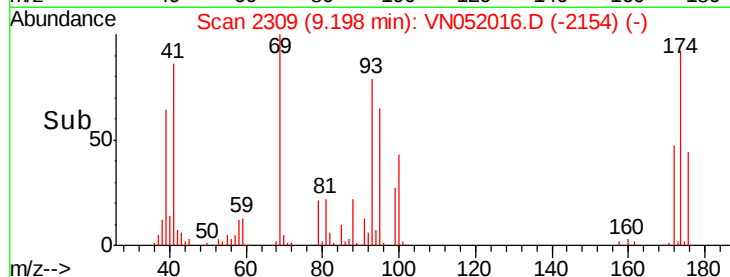
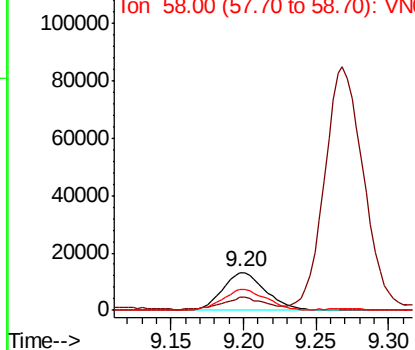
Tot Ion	Ratio	Lower	Upper
88	100		
43	29.1	26.2	39.2
58	55.9	65.6	98.4#

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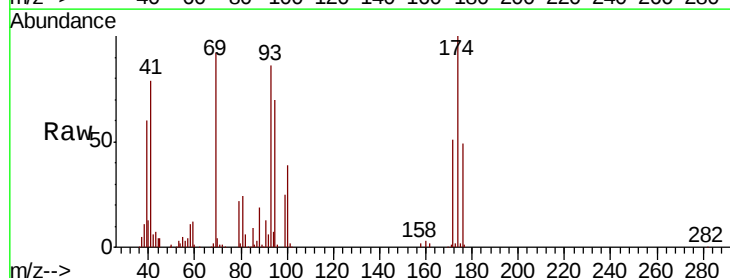


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

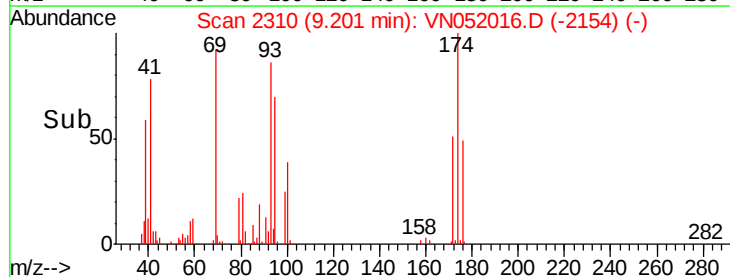
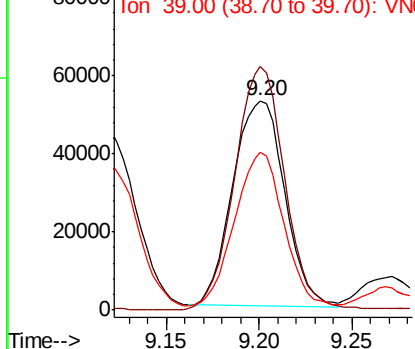


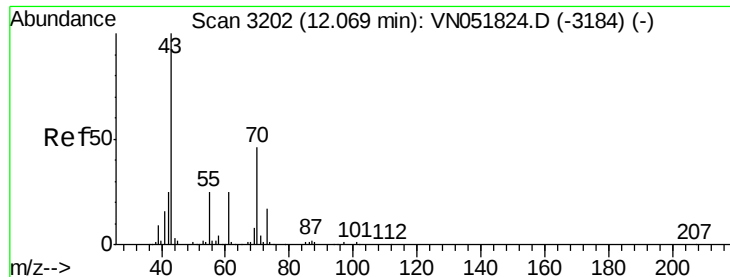
#46
 Methyl methacrylate
 Concen: 18.848 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
41	100		
69	118.7	40.7	122.1
39	75.5	27.3	81.9



Abundance Ion 41.00 (40.70 to 41.70): VN0
 Ion 69.00 (68.70 to 69.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#47

n-amvl Acetate

Concen: 18.786 ug/l m

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 43 Resp: 184984

Ion Ratio Lower Upper

43 100

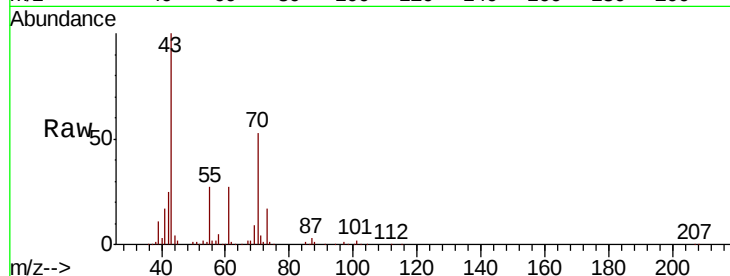
55 0.3 12.2 18.4#

Manual Integrations

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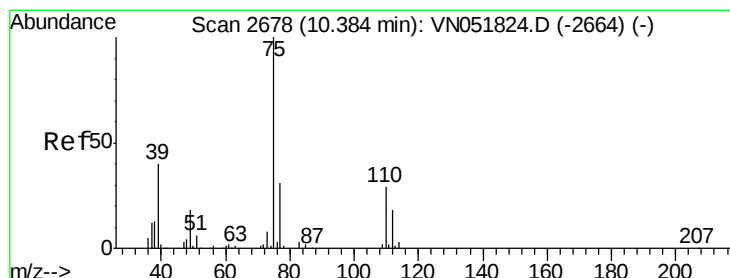
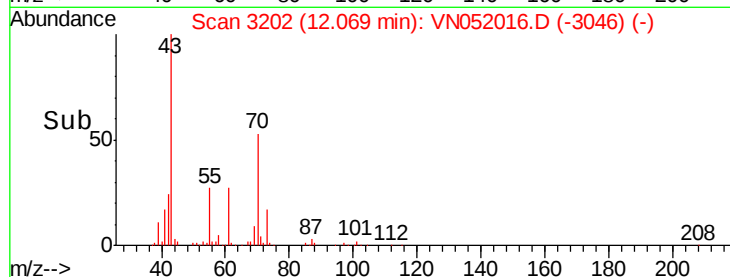
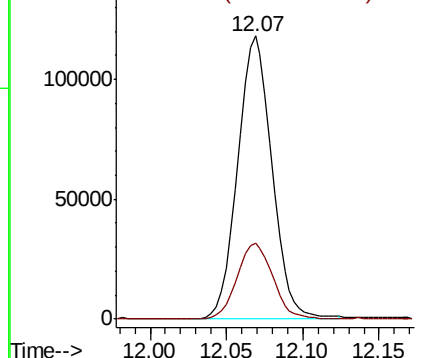
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#48

t-1,3-Dichloropropene

Concen: 18.482 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN052016.D

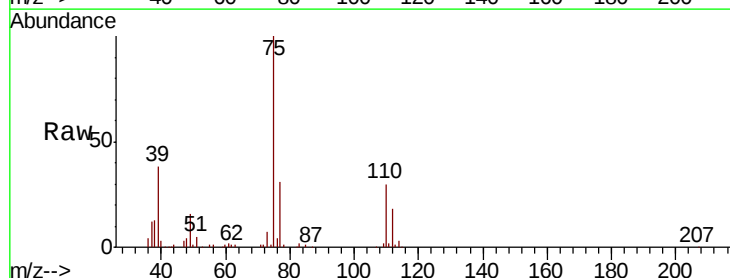
Acq: 25 Oct 2018 17:50

Tgt Ion: 75 Resp: 249748

Ion Ratio Lower Upper

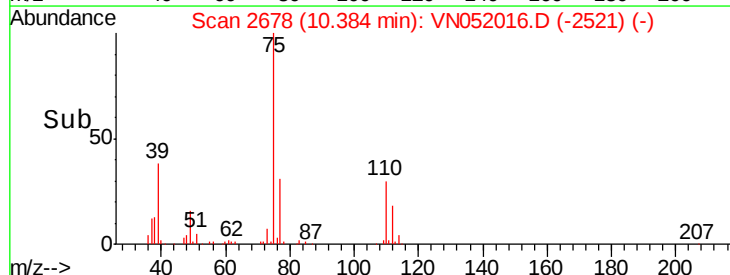
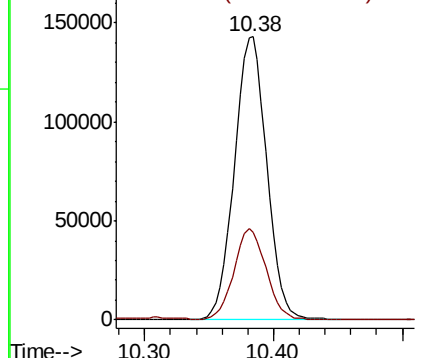
75 100

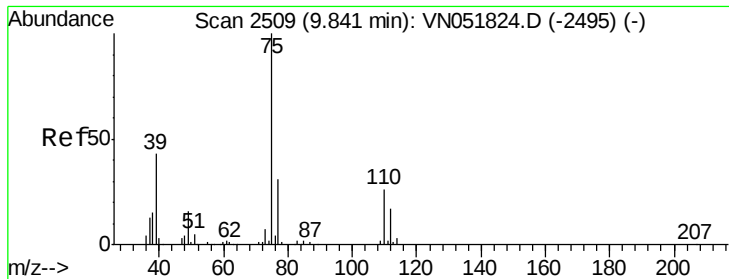
77 30.8 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#49

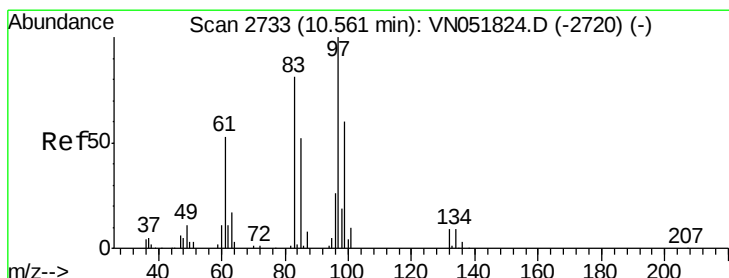
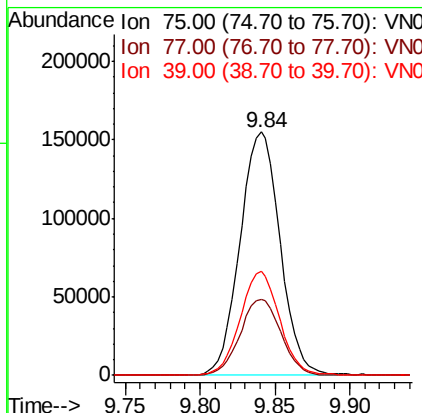
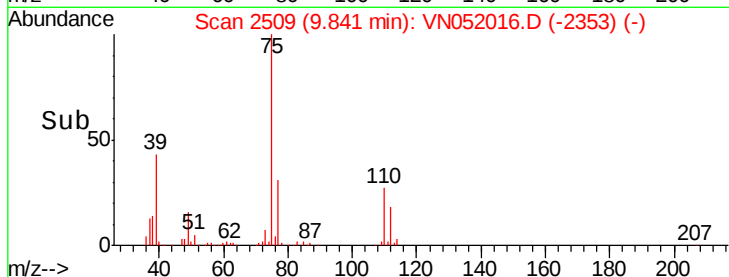
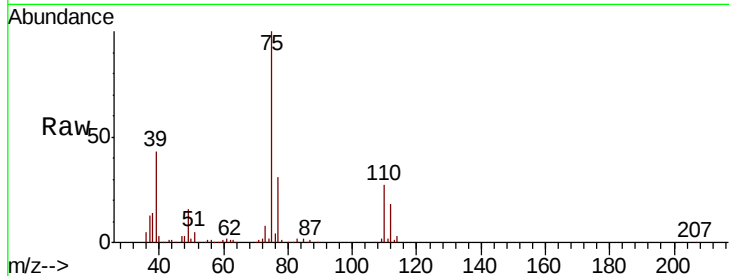
cis-1,3-Dichloropropene
 Concen: 19.400 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	23.2	34.8
39	42.8	34.6	52.0

Manual Integrations
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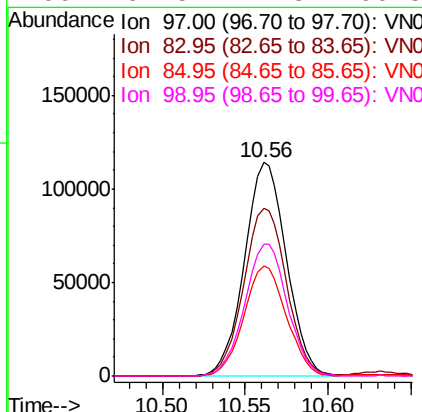
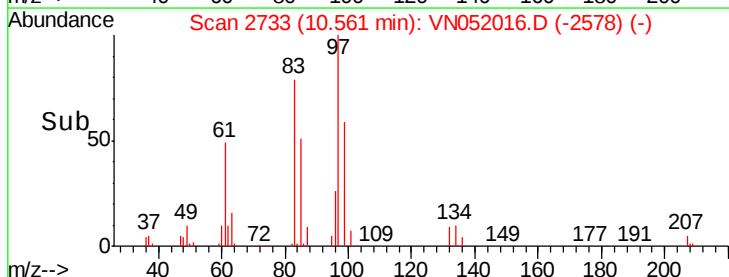
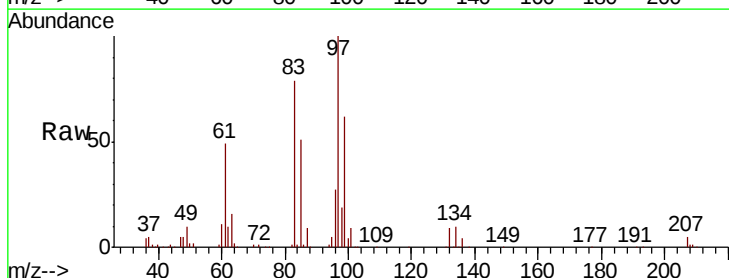
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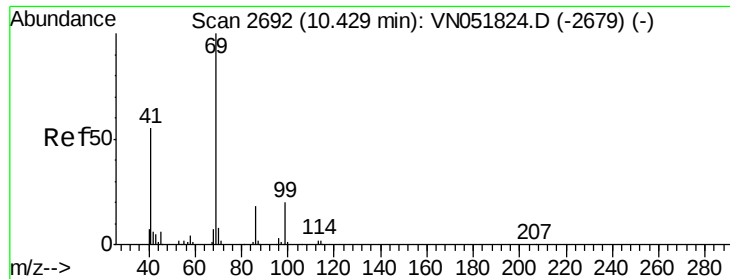


#50

1,1,2-Trichloroethane
 Concen: 21.724 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
97	100		
83	78.8	68.2	102.4
85	51.3	42.5	63.7
99	61.5	44.3	66.5





#51

Ethyl methacrylate

Concen: 19.167 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

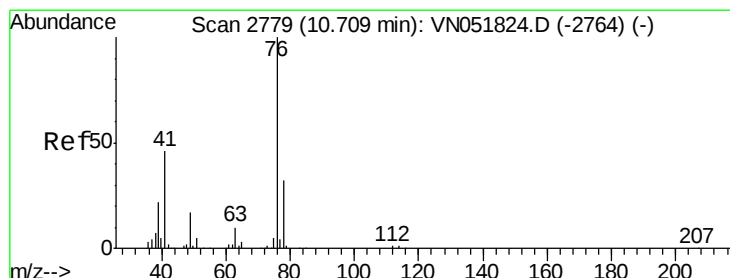
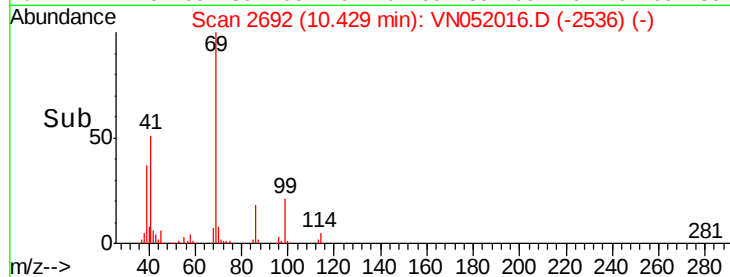
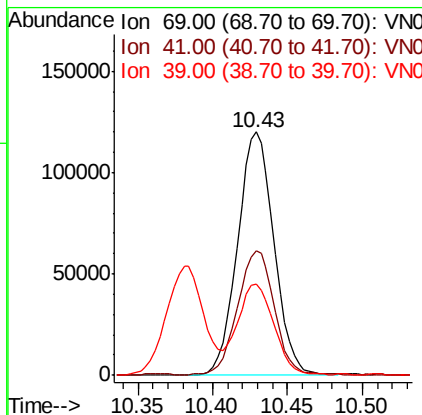
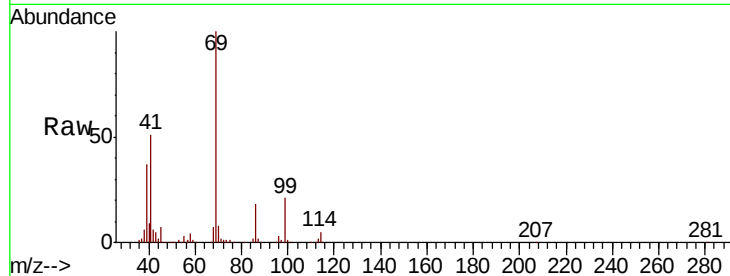
ClientSampleId :

VN1025WBSD02

Tot Ion:	69	Resp:	203405
Ion Ratio	Lower	Upper	
69	100		
41	51.1	34.4	103.1
39	36.9	16.3	48.8

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 20.929 ug/l

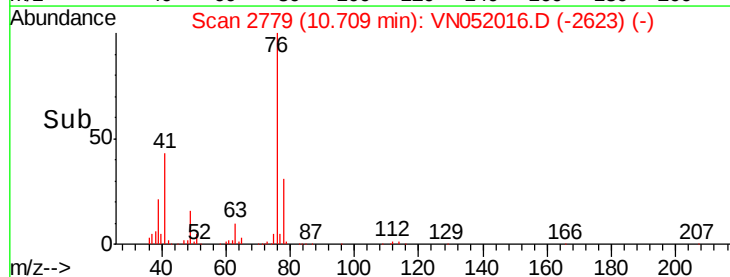
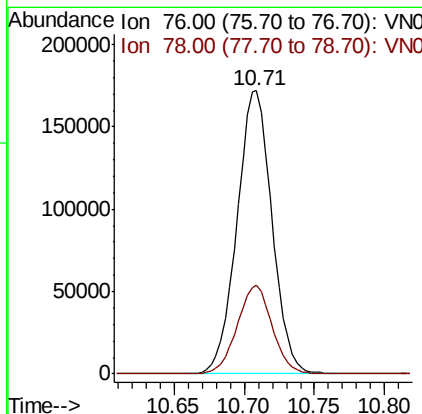
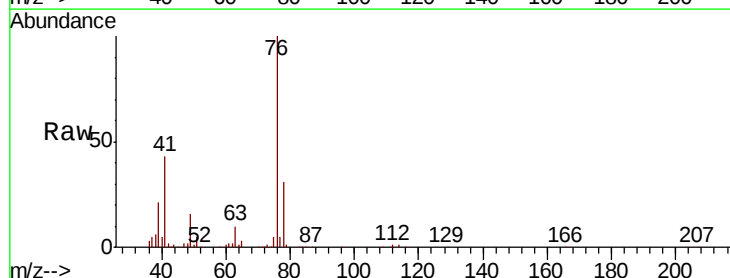
RT: 10.71 min Scan# 2779

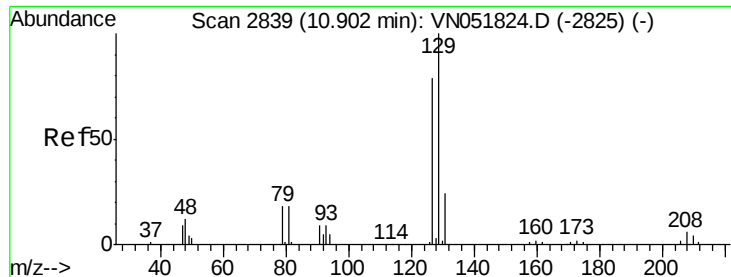
Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Tgt Ion:	76	Resp:	299411
Ion Ratio	Lower	Upper	
76	100		
78	31.3	0.0	67.6





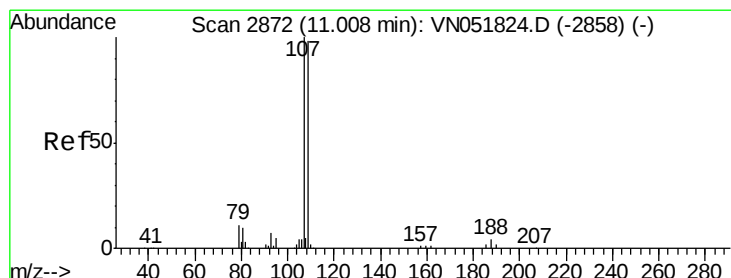
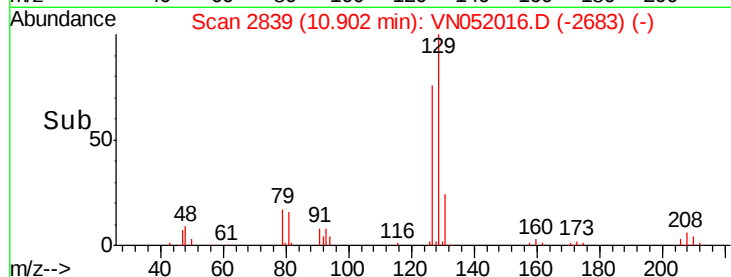
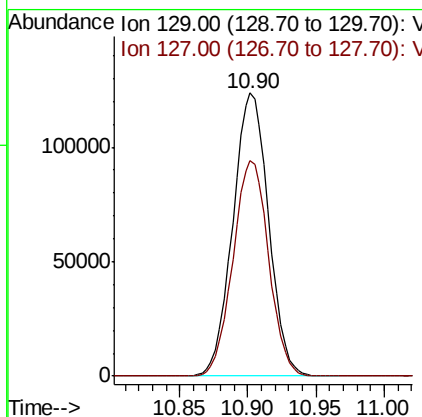
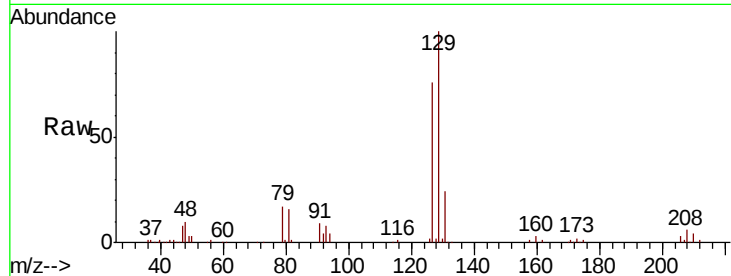
#53
 Dibromochloromethane
 Concen: 19.624 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
129	100		225029		
127	75.8	40.2	120.5		

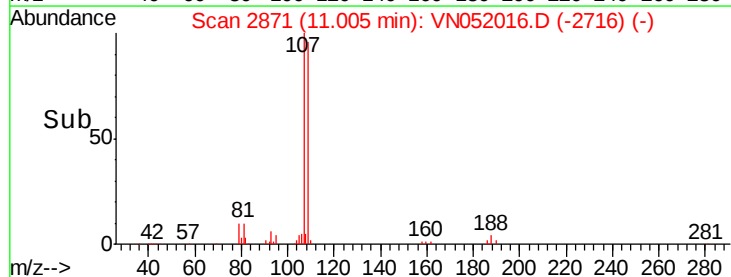
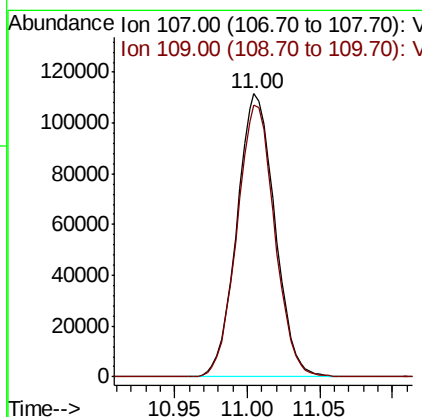
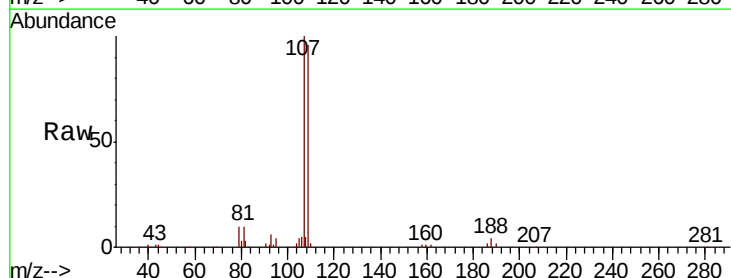
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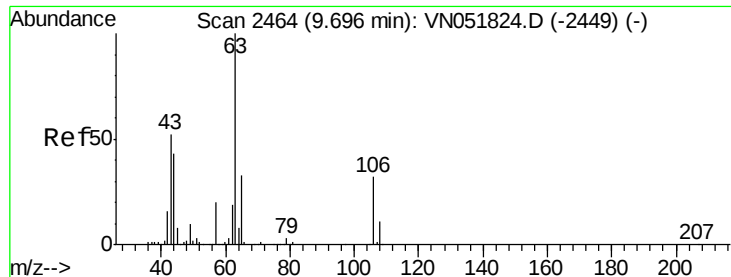
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#54
 1,2-Dibromoethane
 Concen: 20.820 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		202564		
109	95.5	77.4	116.0		





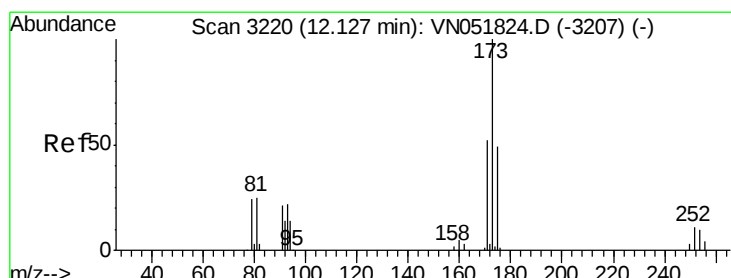
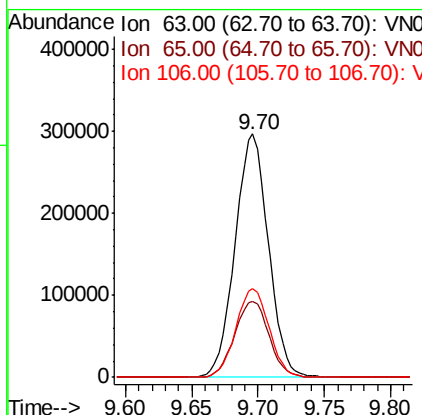
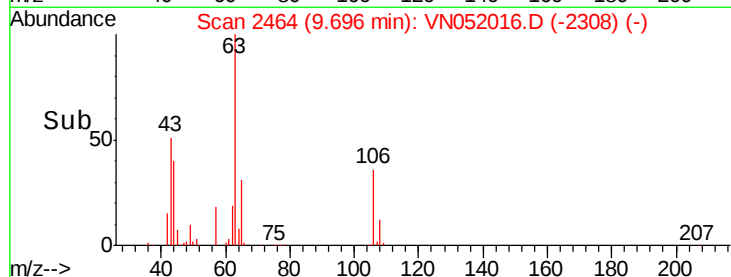
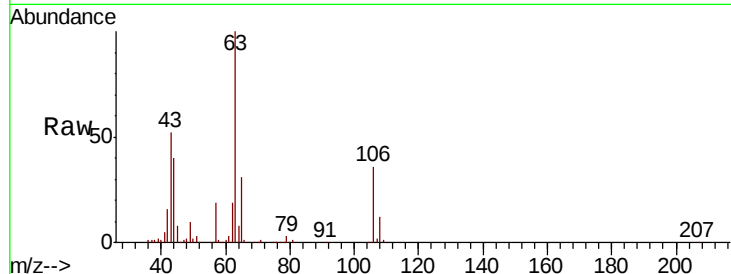
#55
 2-Chloroethyl vinyl ether
 Concen: 114.276 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.3	25.4	38.0
106	36.6	21.2	31.8

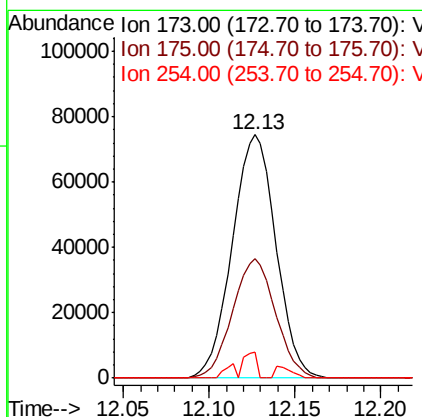
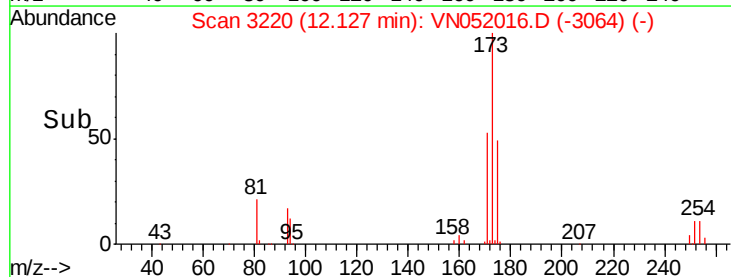
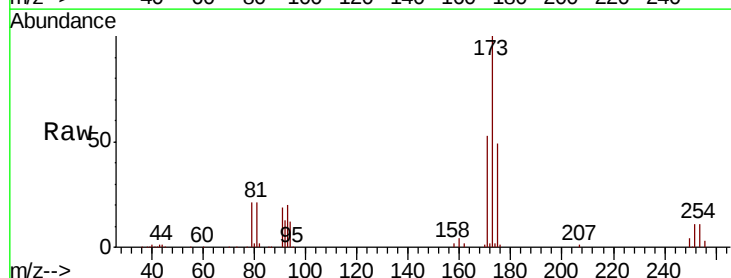
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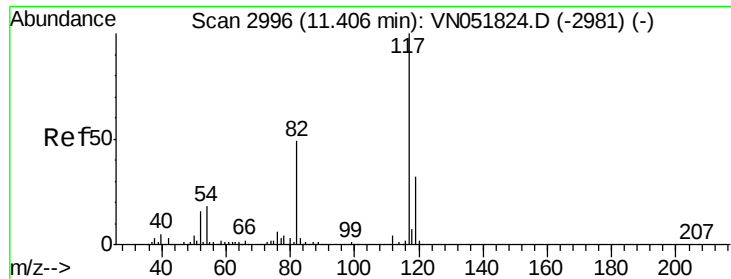
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#56
 Bromoform
 Concen: 17.393 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.2	35.8	53.8
254	3.2	8.6	13.0





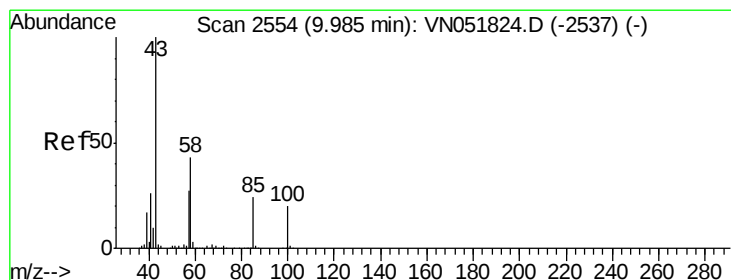
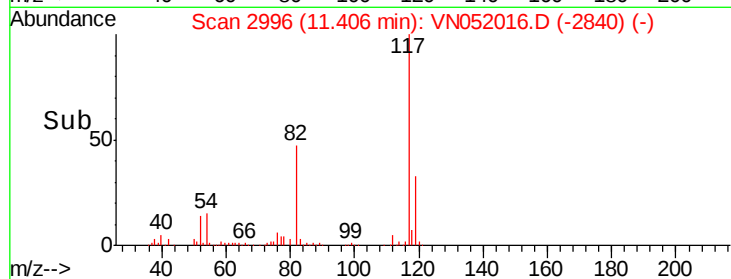
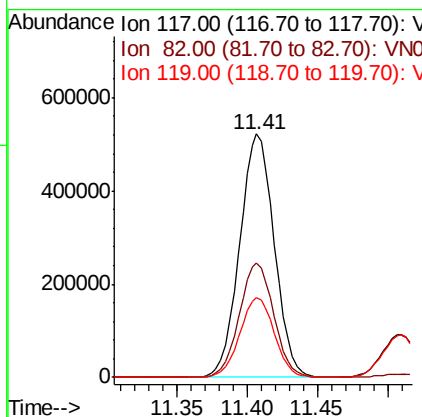
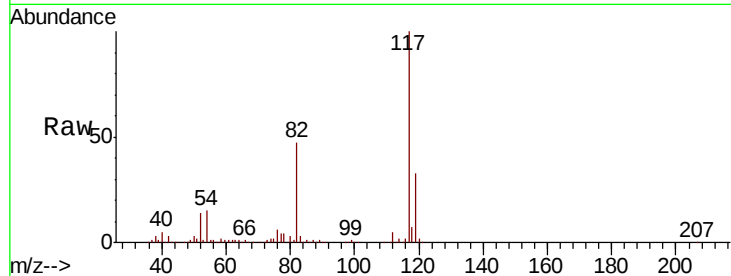
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	46.7	44.1	66.1
119	32.6	25.8	38.8

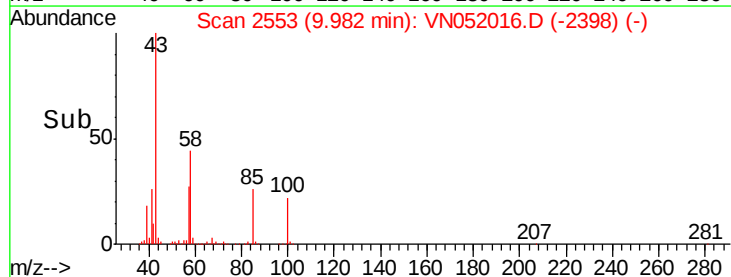
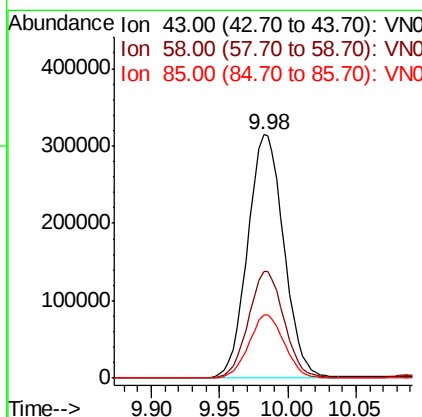
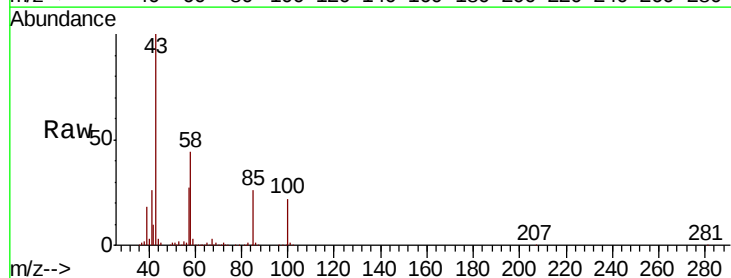
Manual Integrations
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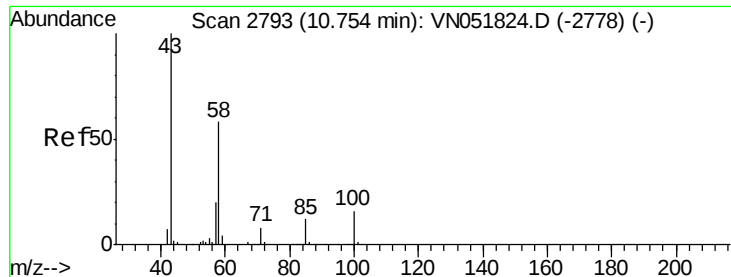
MMDadoda
10/26/2018 9:20:09 AM



#58
4-Methyl-2-Pentanone
Concen: 96.204 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.4	29.3	43.9
85	25.5	12.6	18.8





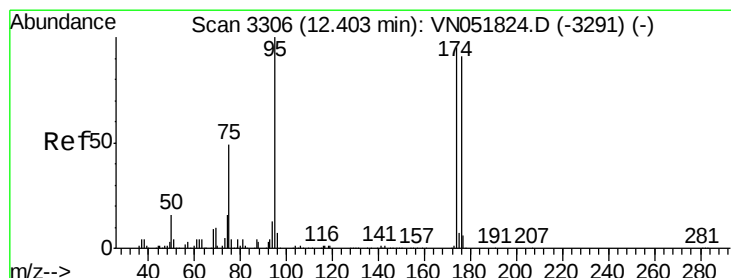
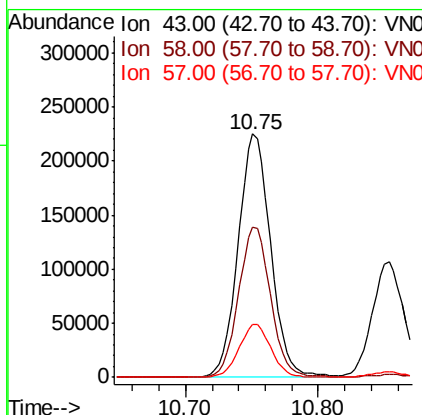
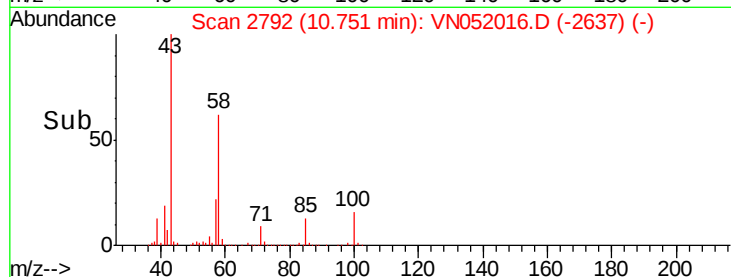
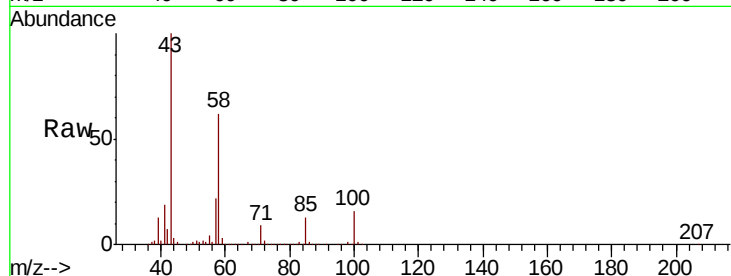
#59
2-Hexanone
Concen: 94.110 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	61.0	41.3	61.9
57	21.6	13.4	20.0

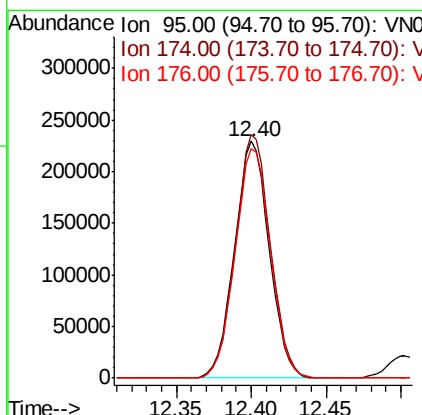
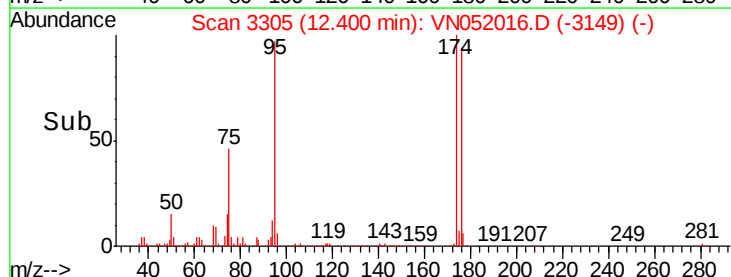
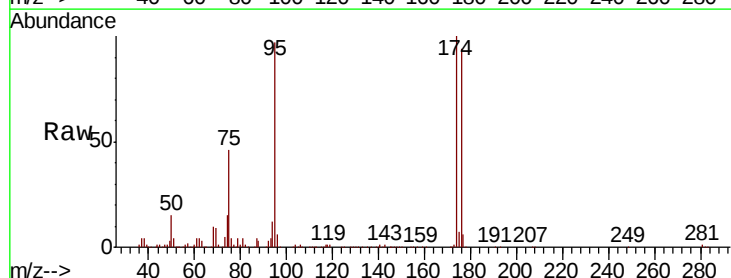
Manual Integrations
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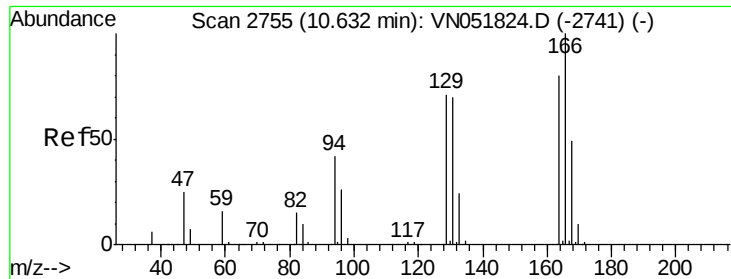
MMDadoda
10/26/2018 9:20:09 AM



#60
4-Bromofluorobenzene
Concen: 94.110 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
95	100		
174	103.3	73.5	110.3
176	98.6	70.2	105.2





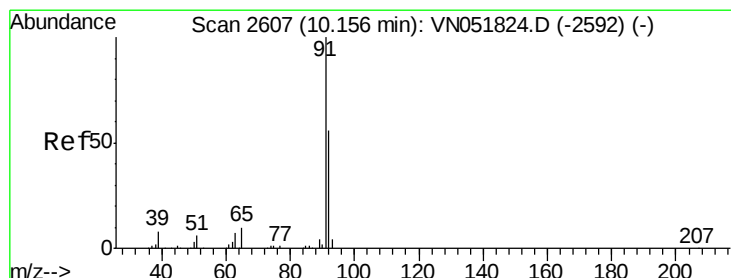
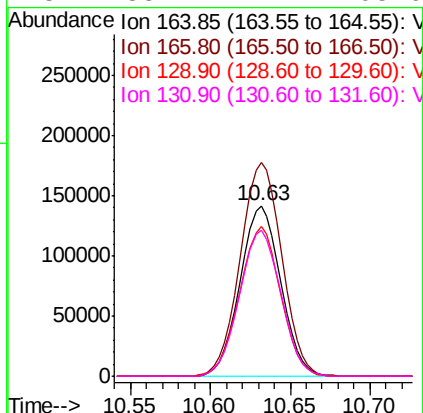
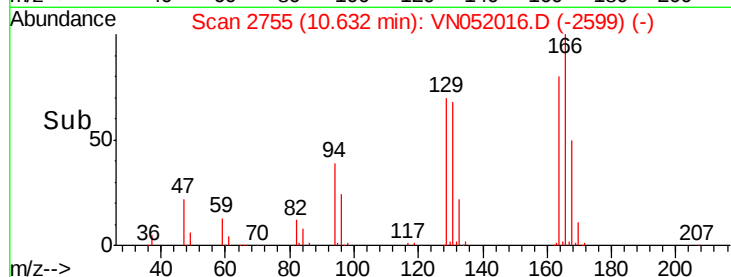
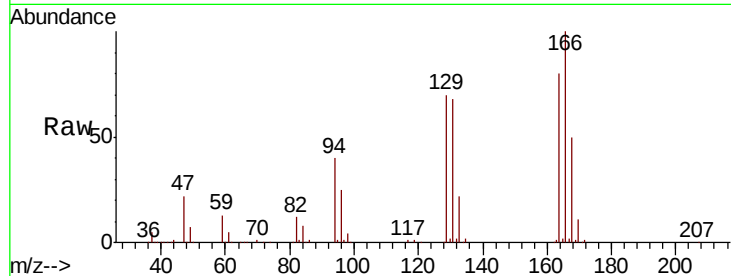
#61
Tetrachloroethene
Concen: 21.379 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
166	125.4	98.7	148.1	
129	87.9	69.6	104.4	
131	85.4	72.4	108.6	

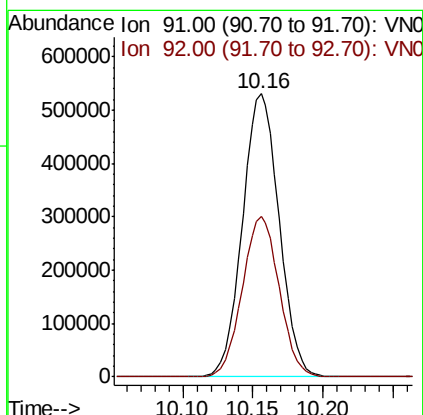
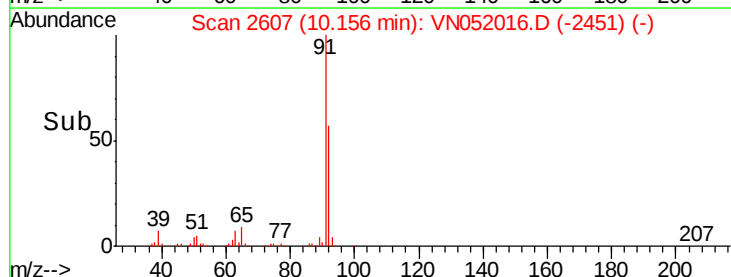
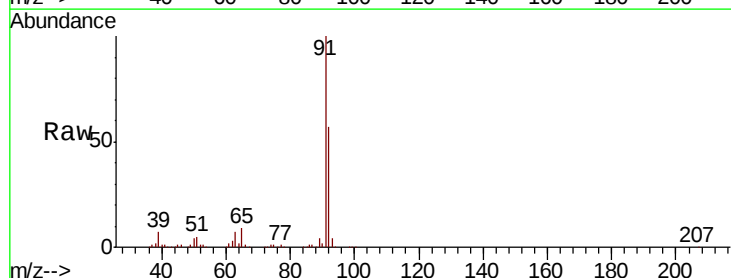
Manual Integrations
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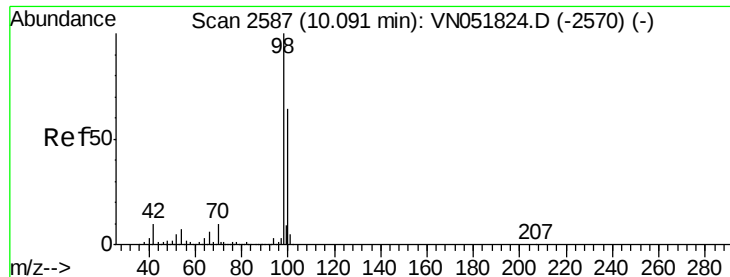
MMDadoda
10/26/2018 9:20:09 AM



#62
Toluene
Concen: 21.695 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

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





#63

Toluene-d8

Concen: 21.695 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 98 Resp: 1153603

Ion Ratio Lower Upper

98 100

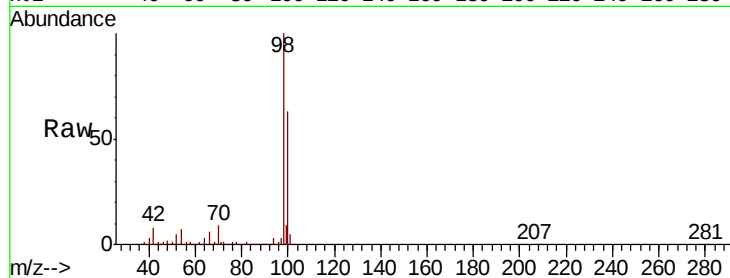
100 64.1 50.8 76.2

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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

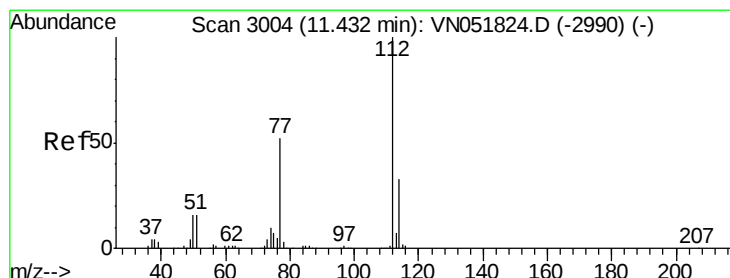
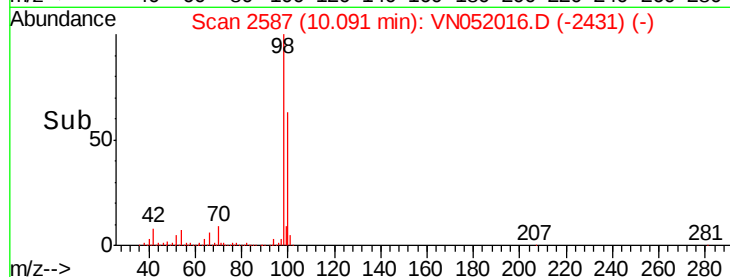
400000

200000

0

10.00 10.10 10.20

Time-->



#64

Chlorobenzene

Concen: 22.249 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN052016.D

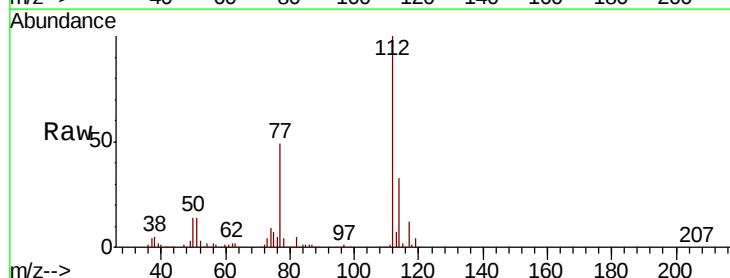
Acq: 25 Oct 2018 17:50

Tgt Ion: 112 Resp: 648954

Ion Ratio Lower Upper

112 100

114 33.2 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

400000

300000

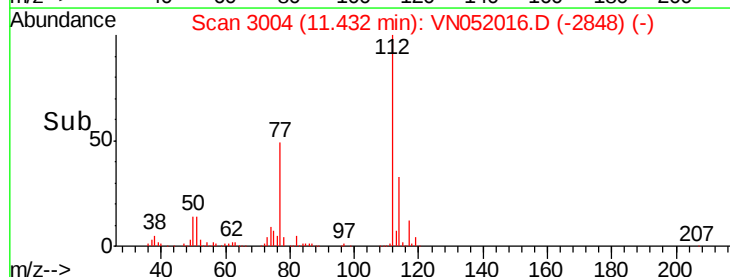
200000

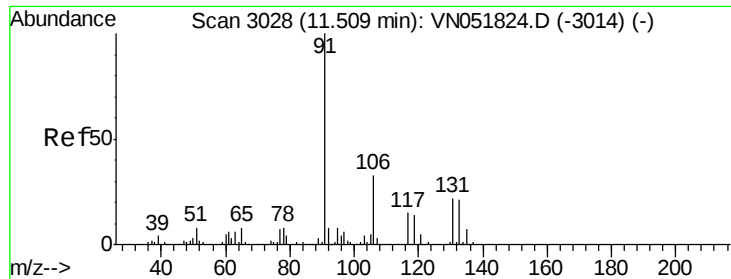
100000

0

11.35 11.40 11.45 11.50

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 21.688 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

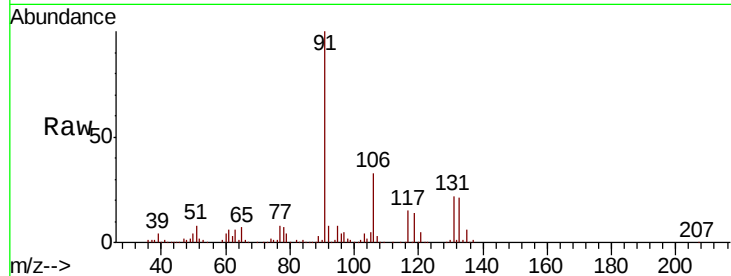
ClientSampleId :

VN1025WBSD02

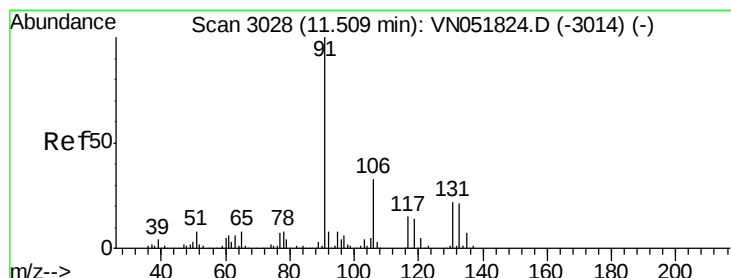
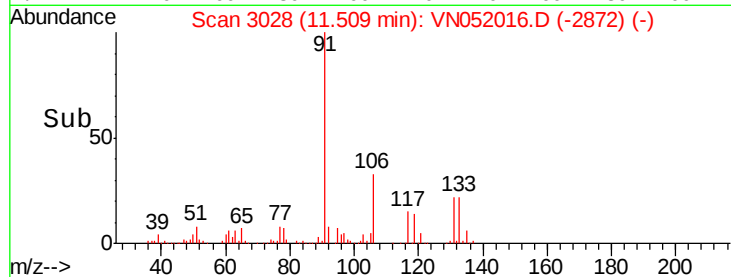
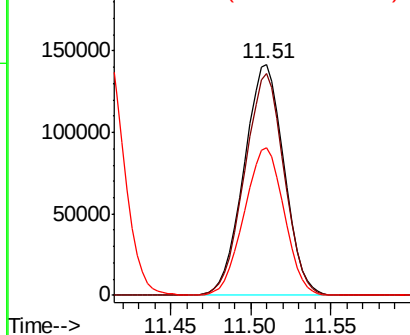
Tot Ion:	131	Resp:	242815
Ion Ratio	Lower	Upper	
131	100		
133	95.0	0.0	190.4
119	63.7	0.0	128.0

Manual Integrations
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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: 21.133 ug/l

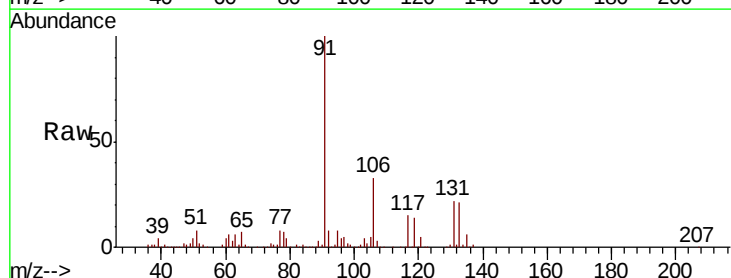
RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

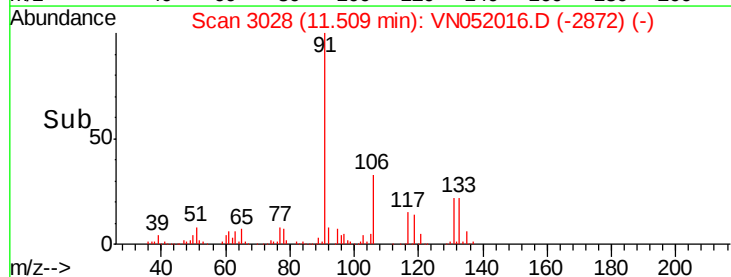
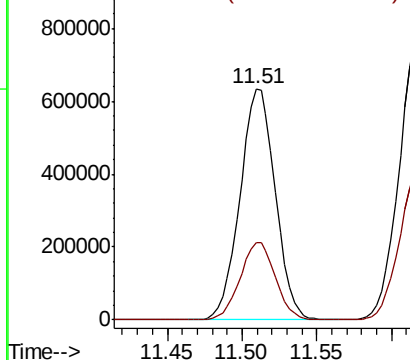
Lab File: VN052016.D

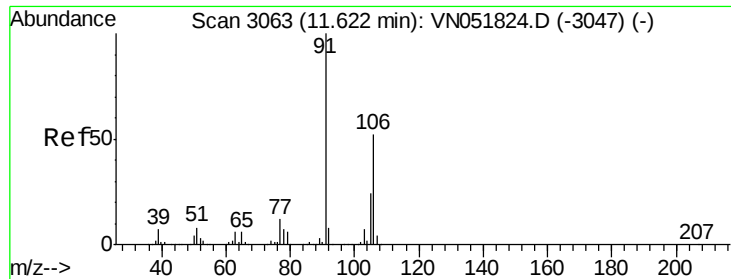
Acq: 25 Oct 2018 17:50

Tgt Ion:	91	Resp:	1040217
Ion Ratio	Lower	Upper	
91	100		
106	33.5	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: 42.581 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion:106 Resp: 849741

Ion Ratio Lower Upper

106 100

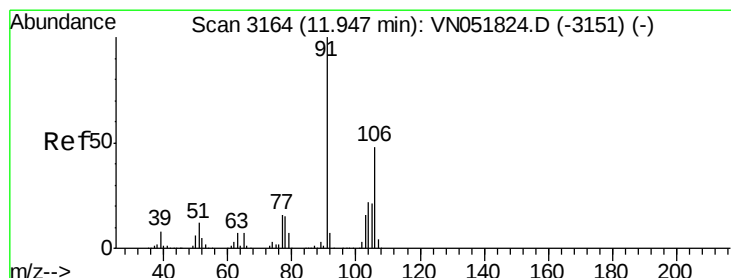
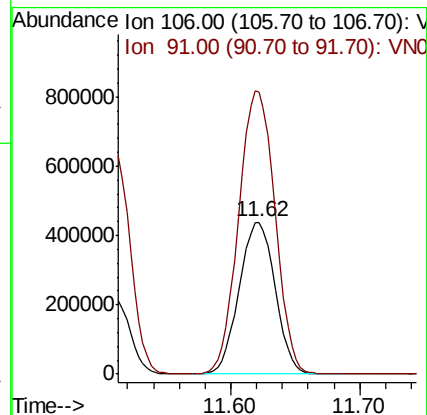
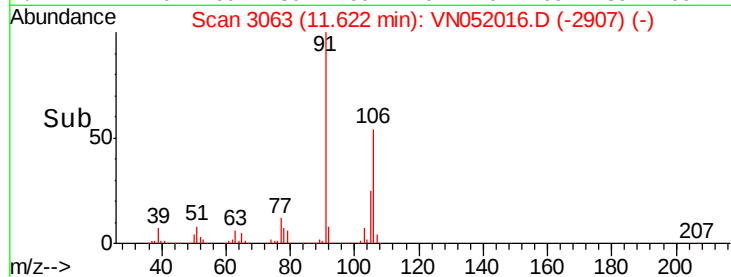
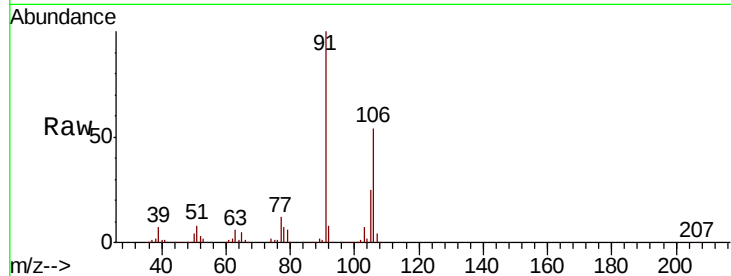
91 188.2 158.8 238.2

Manual Integrations

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#68

o-Xylene

Concen: 20.982 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN052016.D

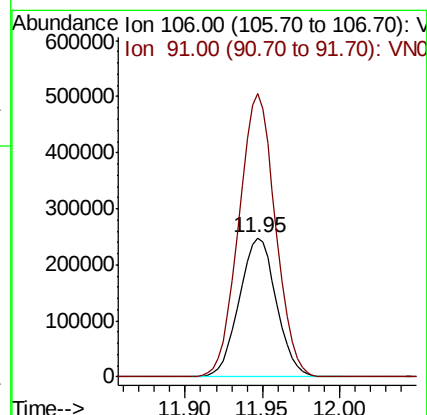
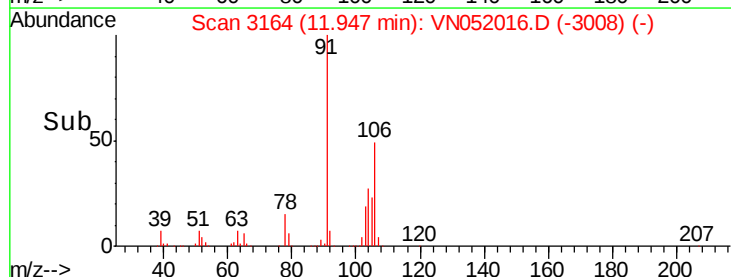
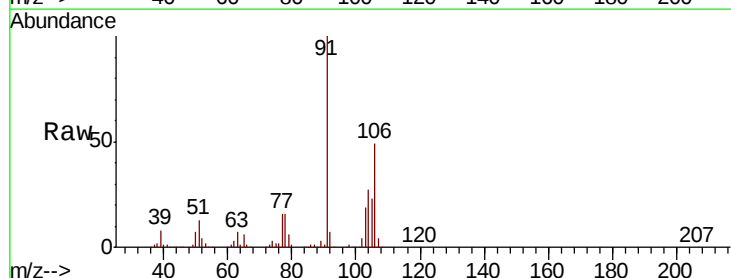
Acq: 25 Oct 2018 17:50

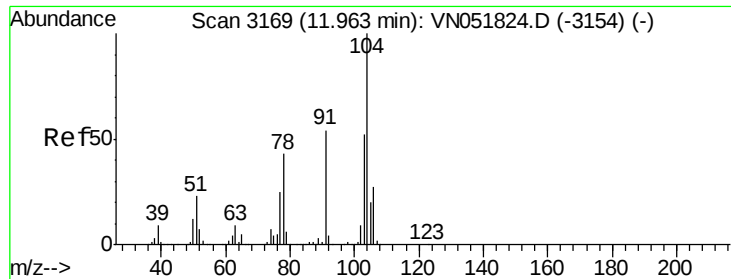
Tgt Ion:106 Resp: 412785

Ion Ratio Lower Upper

106 100

91 200.8 111.1 333.3





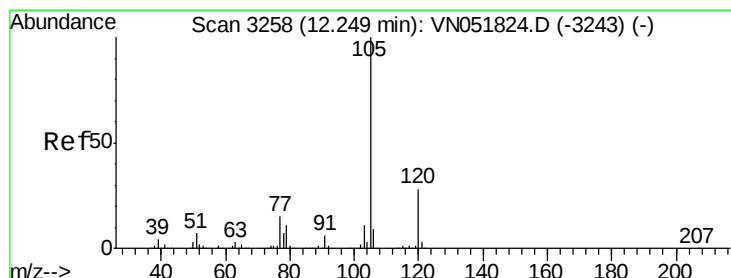
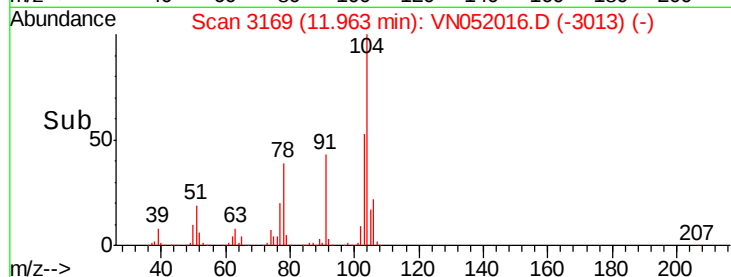
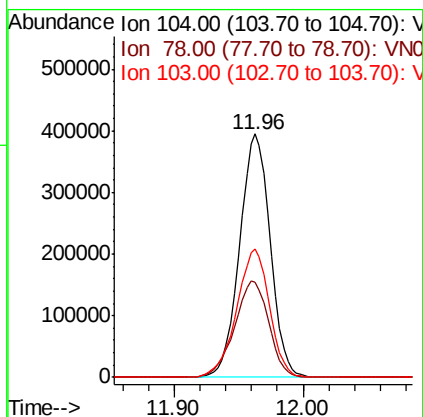
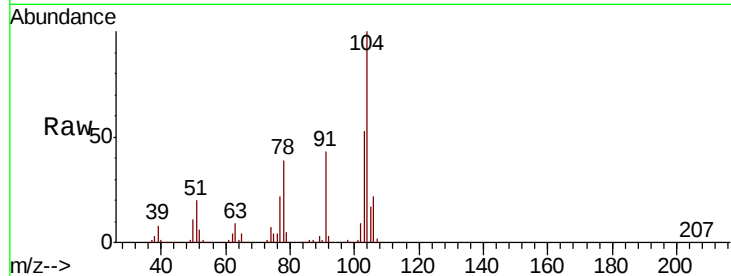
#69
 Stvrene
 Concen: 21.620 ug/l
 RT: 11.96 min Scan# 3169
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
104	100		
78	44.3	40.6	60.8
103	56.6	44.0	66.0

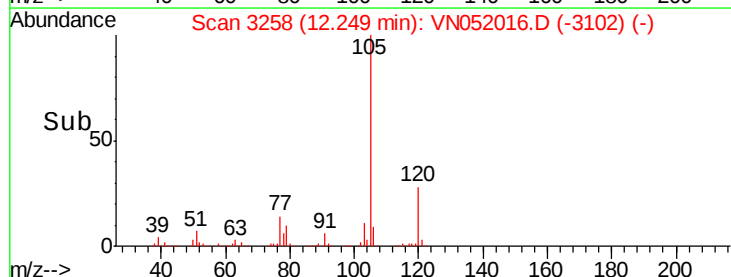
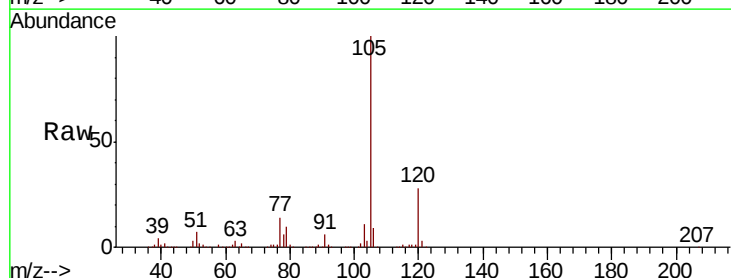
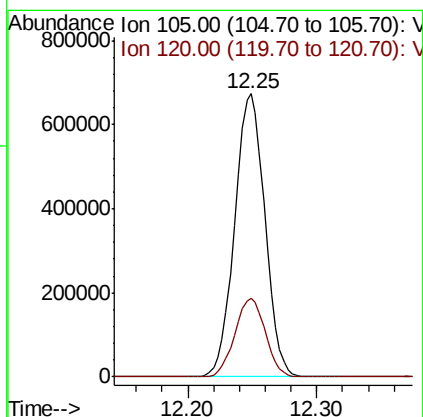
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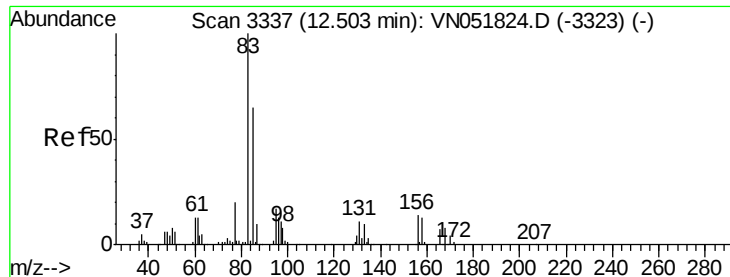
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#70
 Isopropylbenzene
 Concen: 20.833 ug/l
 RT: 12.25 min Scan# 3258
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.1	19.0	35.4





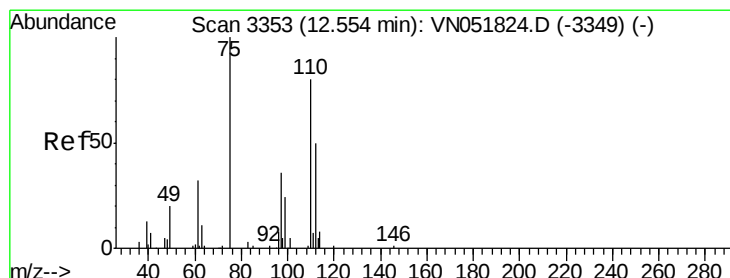
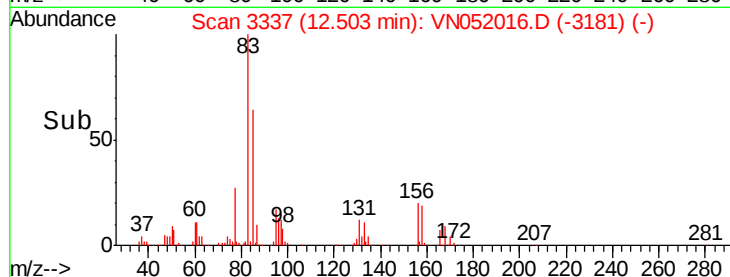
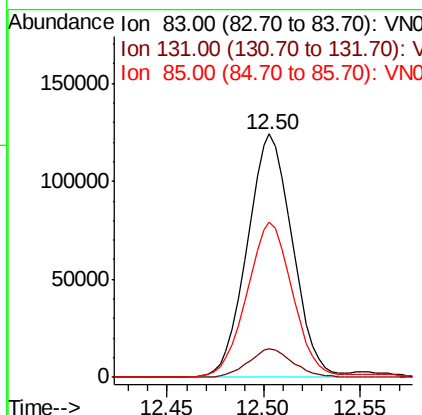
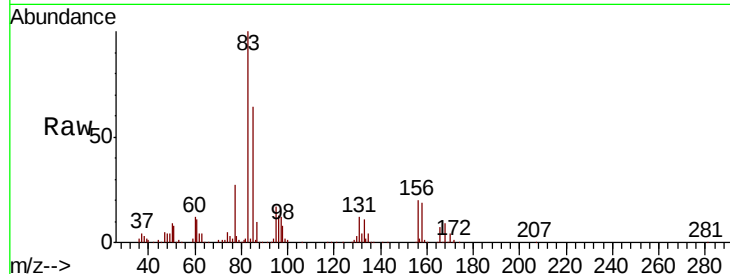
#71
 1,1,2,2-Tetrachloroethane
 Concen: 19.473 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
131	11.8	5.5	16.4
85	64.6	30.6	91.8

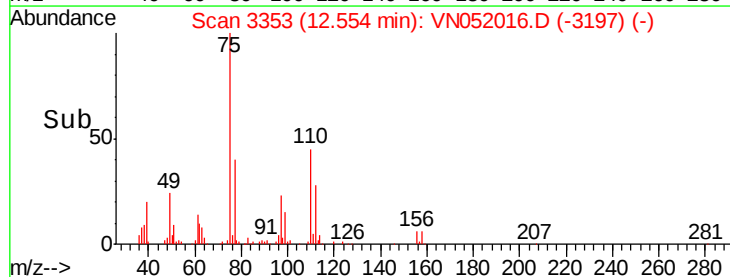
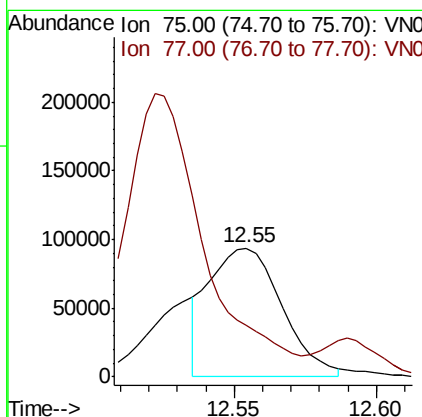
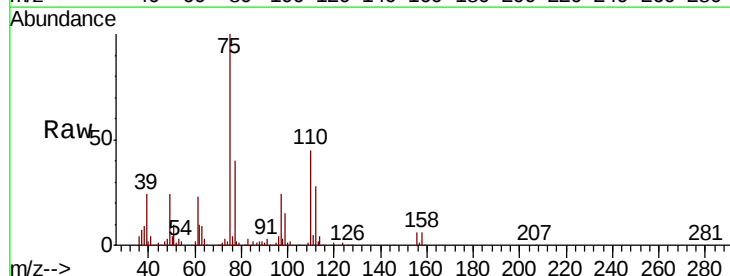
Manual Integrations
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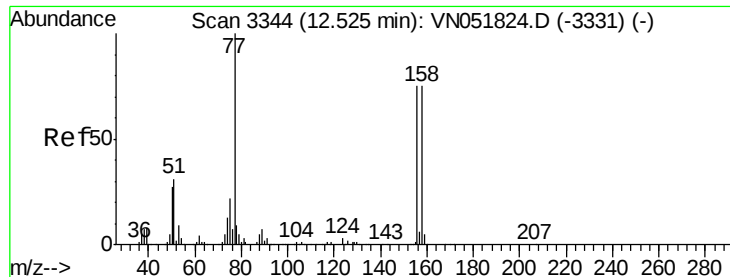
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#72
 1,2,3-Trichloropropane
 Concen: 20.591 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
75	100		
77	239.3	0.0	400.0





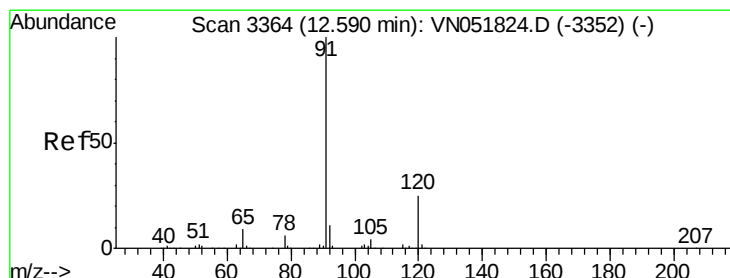
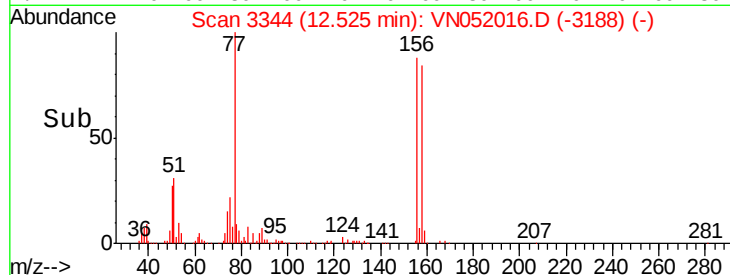
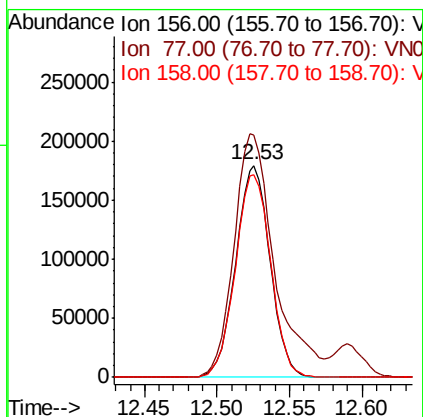
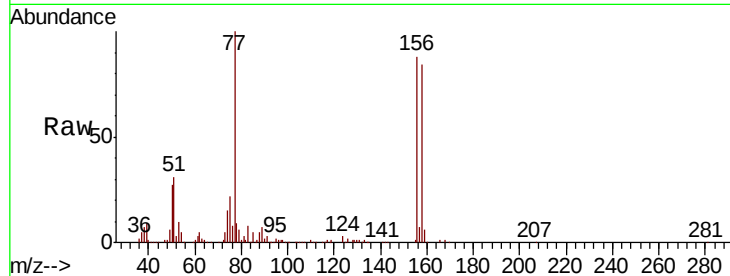
#73
Bromobenzene
Concen: 22.721 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
156	100	295252		
77	136.0	0.0	377.4	
158	98.6	0.0	203.0	

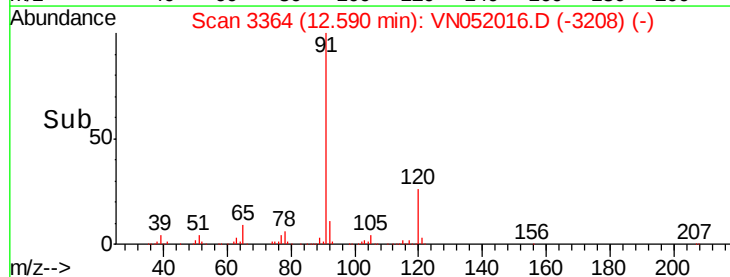
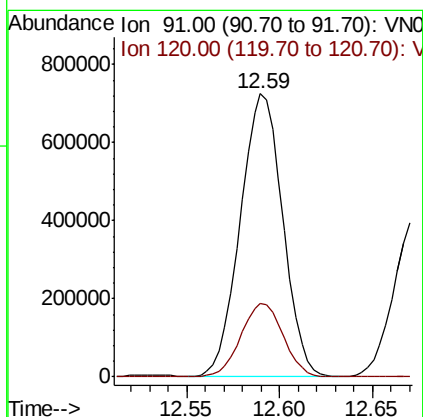
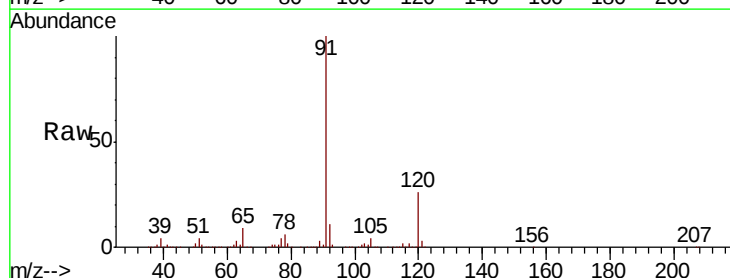
Manual Integrations
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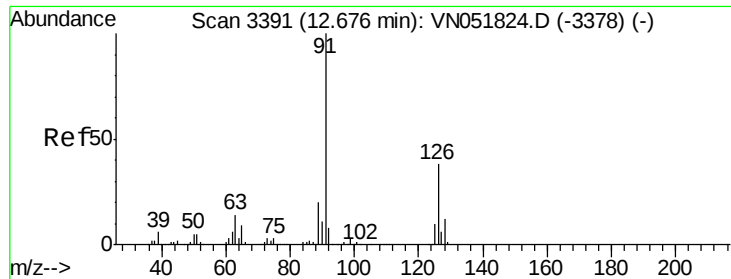
MMDadoda
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#74
n-propylbenzene
Concen: 20.557 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	1160040		
120	25.9	0.0	45.0	





#75

2-Chlorotoluene

Concen: 20.510 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 91 Resp: 678538

Ion Ratio Lower Upper

91 100

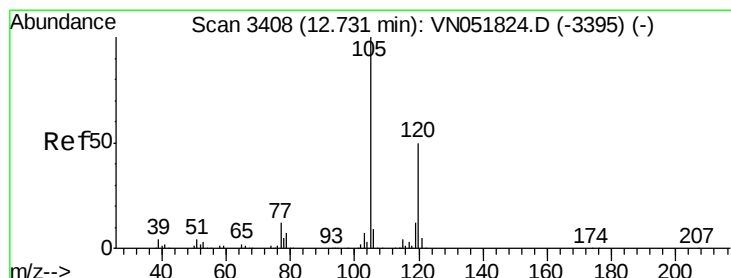
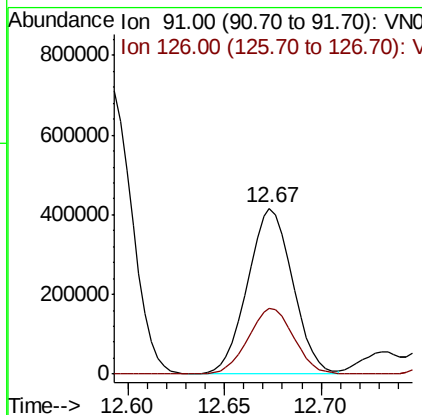
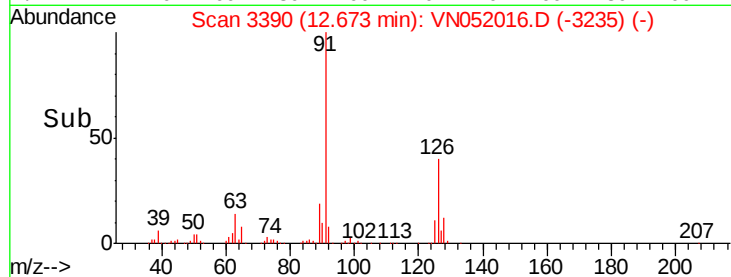
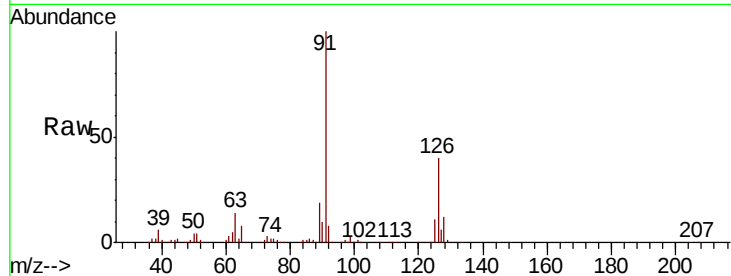
126 40.3 0.0 67.6

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#76

1,3,5-Trimethylbenzene

Concen: 20.310 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052016.D

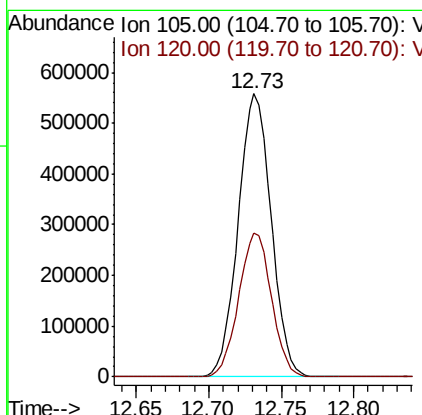
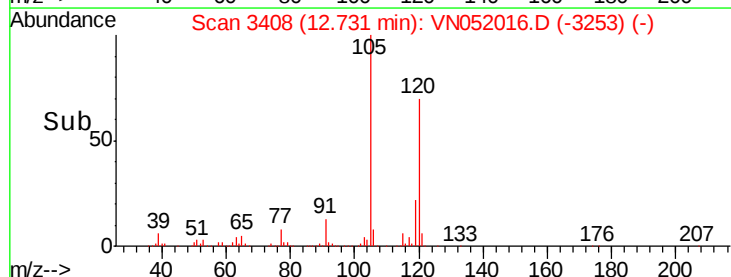
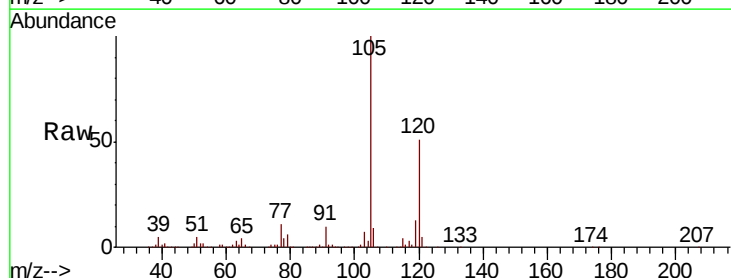
Acq: 25 Oct 2018 17:50

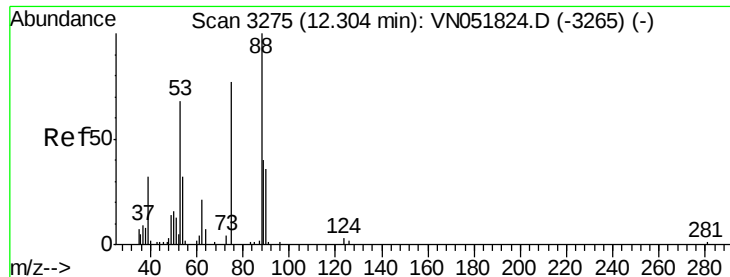
Tgt Ion: 105 Resp: 881104

Ion Ratio Lower Upper

105 100

120 50.6 0.0 98.2





#77

t-1,4-Dichloro-2-butene

Concen: 15.701 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

ClientSampleId :

VN1025WBSD02

Tot Ion: 75 Resp: 42323

Ion Ratio Lower Upper

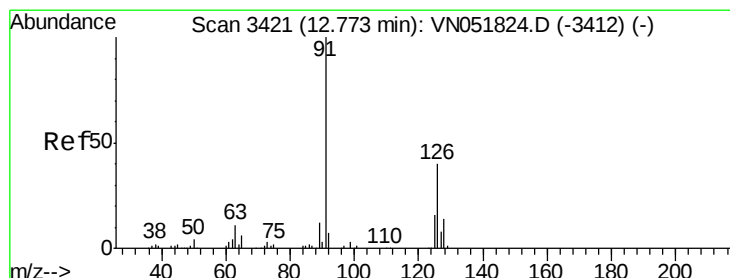
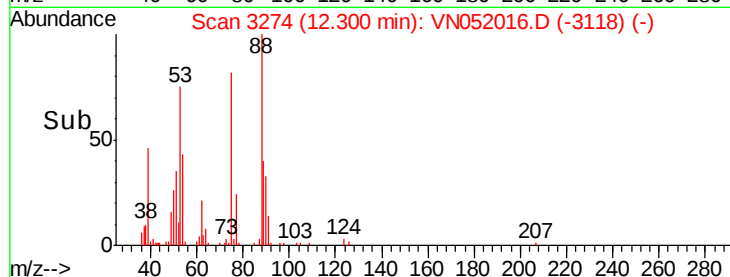
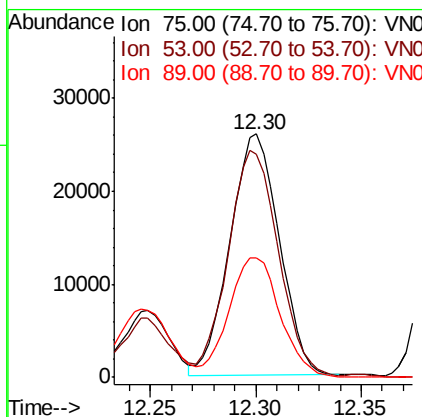
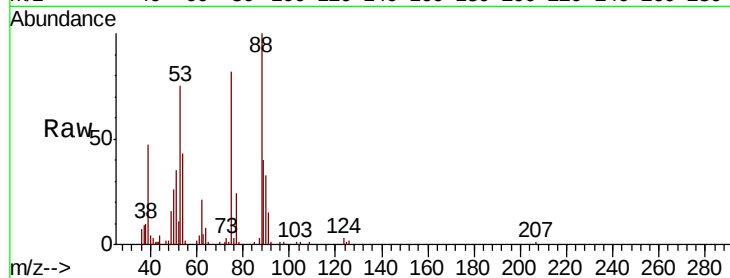
75 100

53 91.9 46.3 138.9

89 49.7 24.6 73.8

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#78

4-Chlorotoluene

Concen: 20.953 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN052016.D

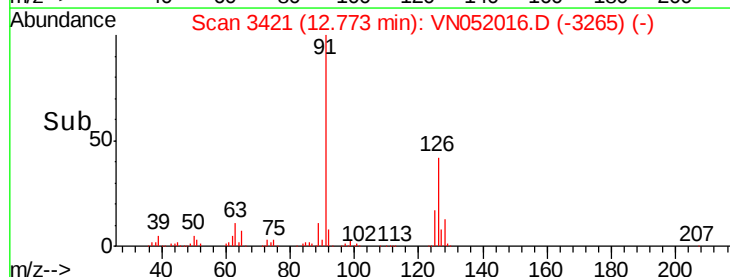
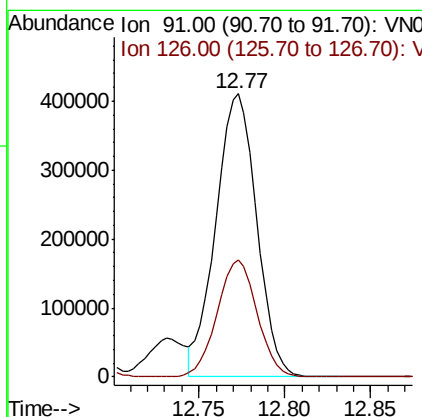
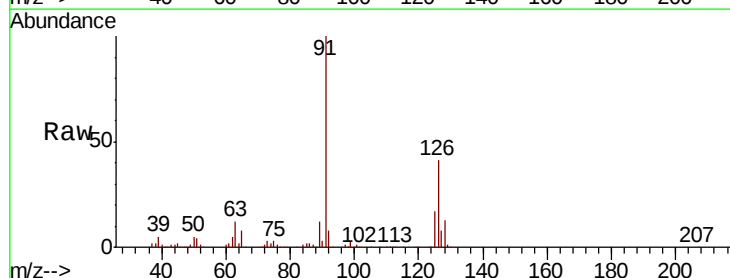
Acq: 25 Oct 2018 17:50

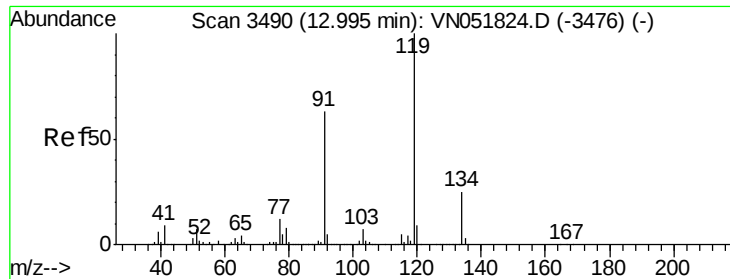
Tgt Ion: 91 Resp: 681078

Ion Ratio Lower Upper

91 100

126 40.4 0.0 65.2





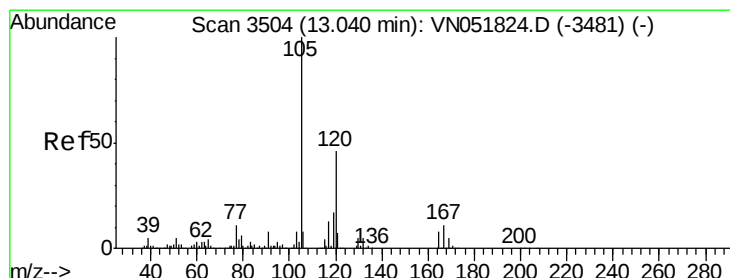
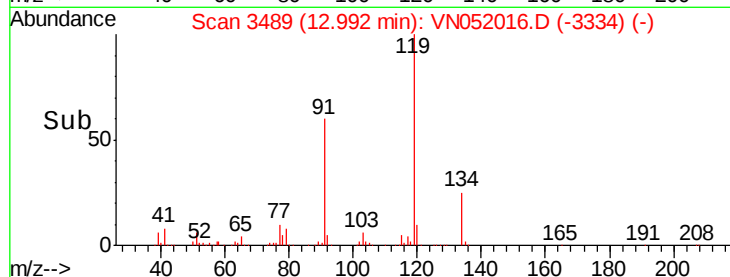
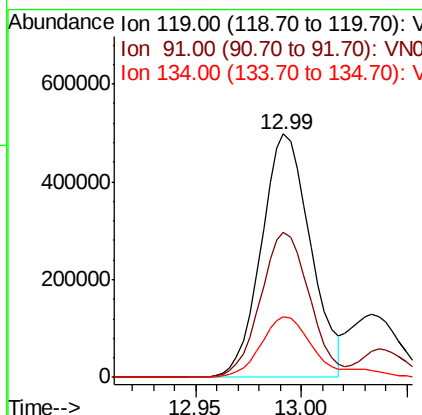
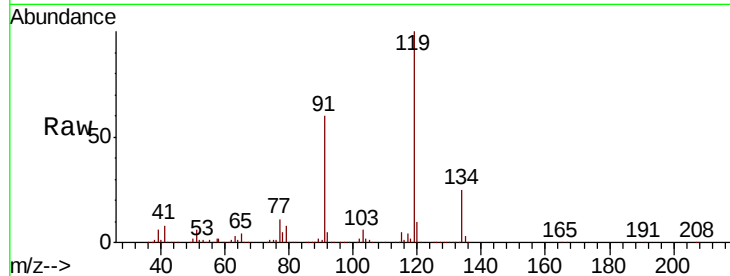
#79
tert-butylbenzene
Concen: 20.261 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	808333		
91	59.3		0.0	131.6
134	25.3		0.0	46.2

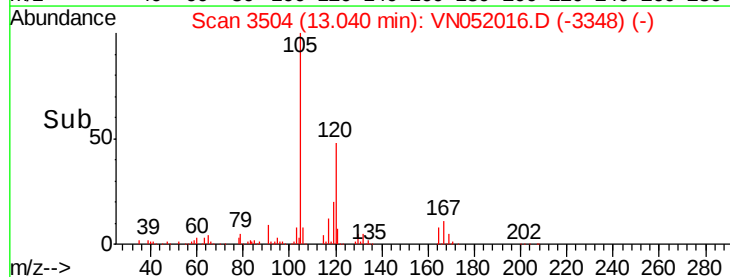
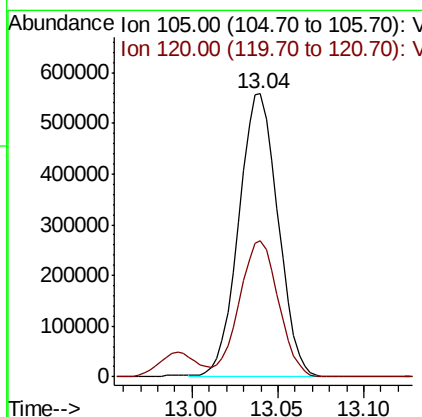
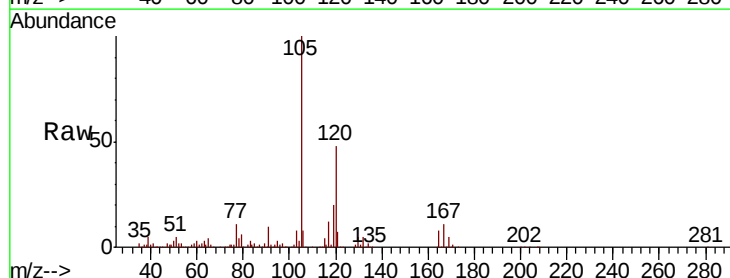
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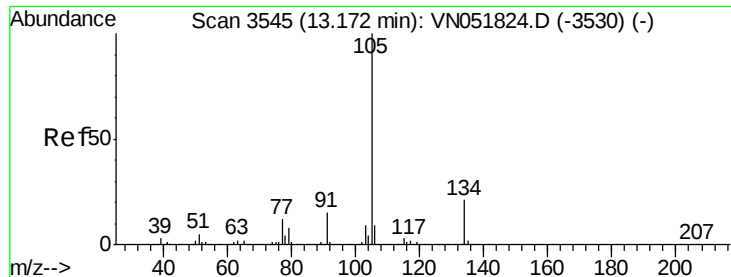
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#80
1,2,4-Trimethylbenzene
Concen: 20.499 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	888805		
120	48.0		0.0	89.6





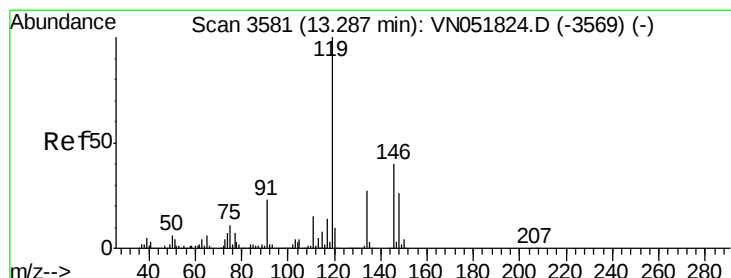
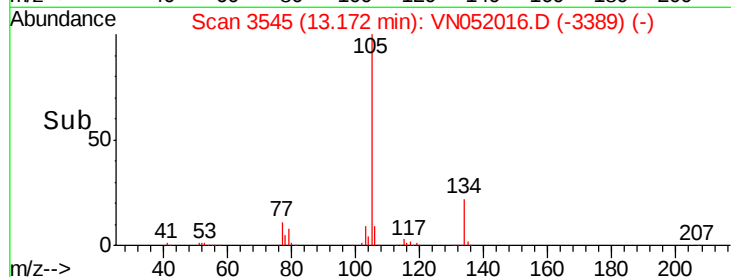
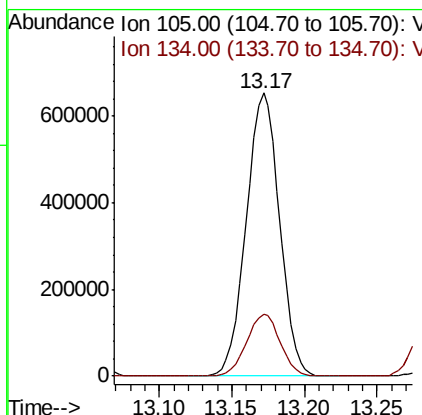
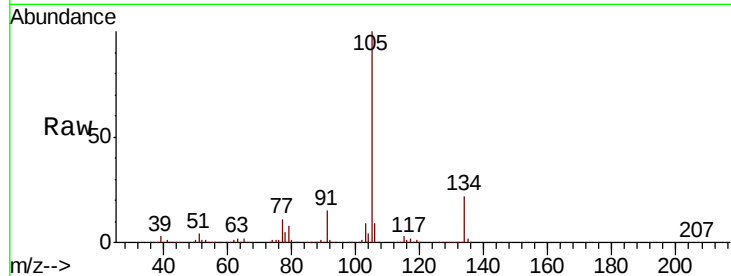
#81
 sec-Butylbenzene
 Concen: 20.017 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion:105 Resp: 1044708
 Ion Ratio Lower Upper
 105 100
 134 22.1 0.0 39.4

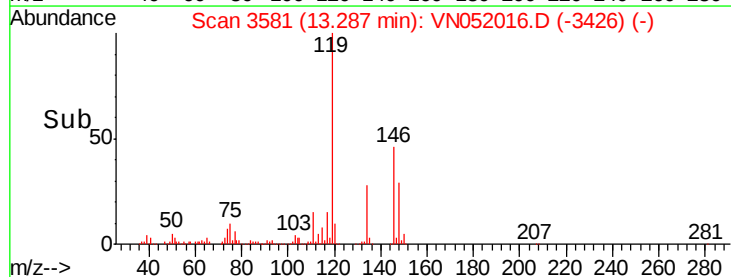
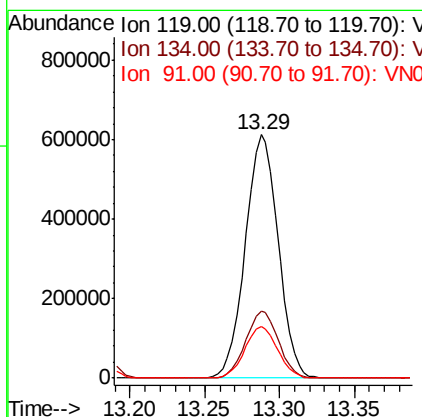
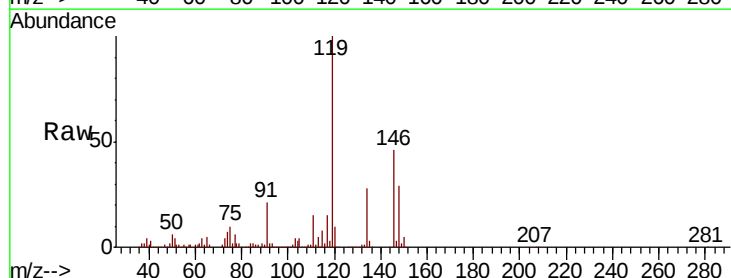
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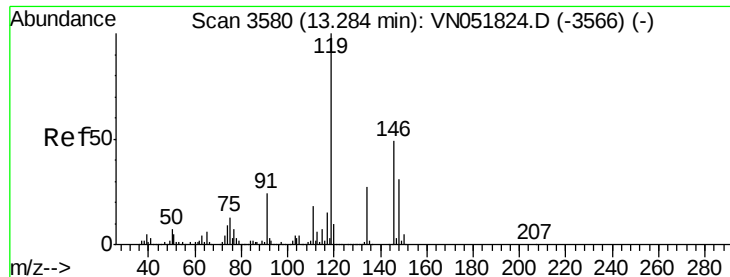
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#82
 p-Isopropyltoluene
 Concen: 20.044 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion:119 Resp: 936073
 Ion Ratio Lower Upper
 119 100
 134 27.5 0.0 53.6
 91 21.1 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 22.635 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

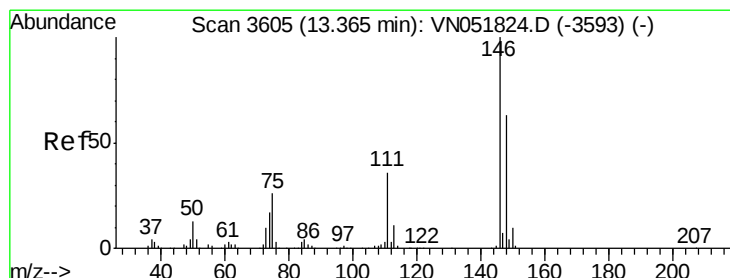
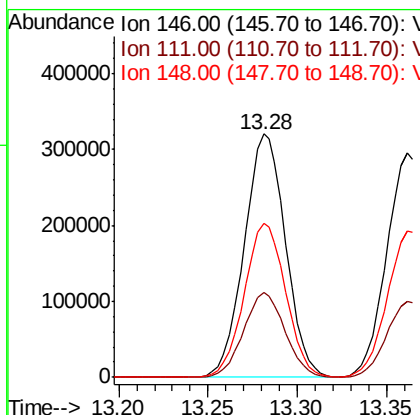
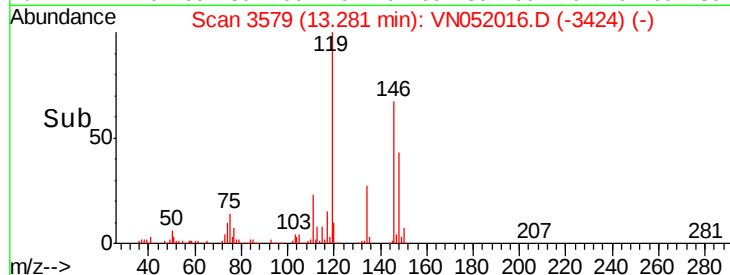
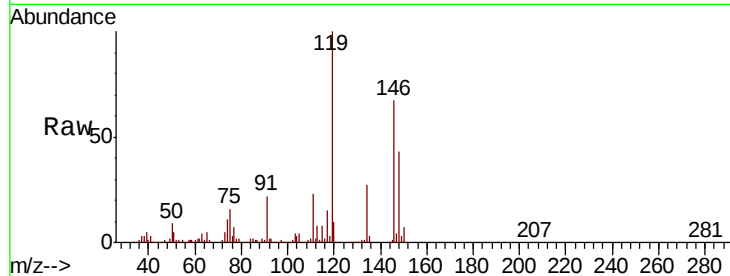
ClientSampleId :

VN1025WBSD02

Tot Ion:	146	Resp:	518995
Ion Ratio	Lower	Upper	
146	100		
111	34.8	18.1	54.3
148	63.4	31.3	93.8

Manual Integrations
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#84

1,4-Dichlorobenzene

Concen: 22.711 ug/l

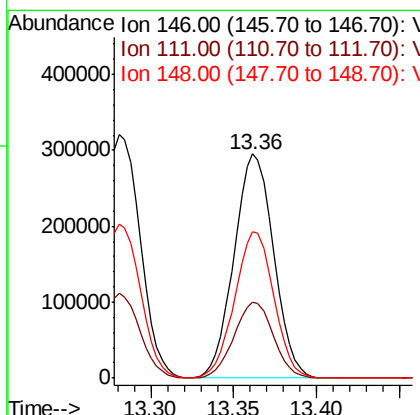
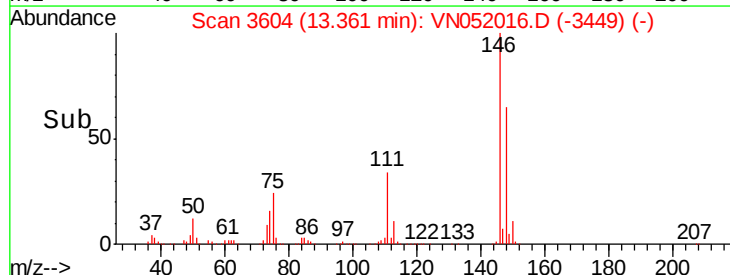
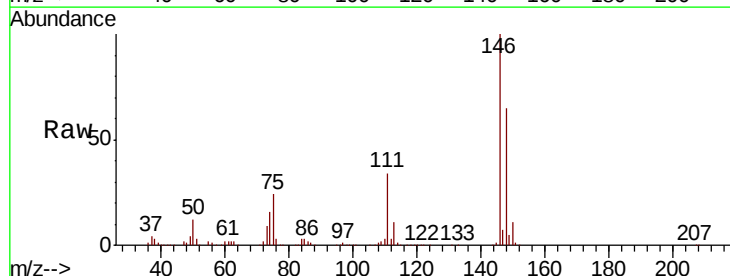
RT: 13.36 min Scan# 3604

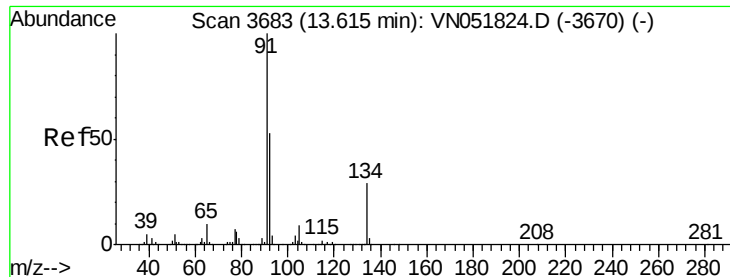
Delta R.T. -0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Tgt Ion:	146	Resp:	490234
Ion Ratio	Lower	Upper	
146	100		
111	33.7	17.4	52.2
148	64.4	32.8	98.3





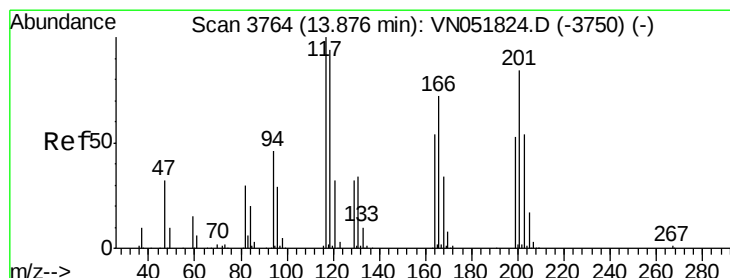
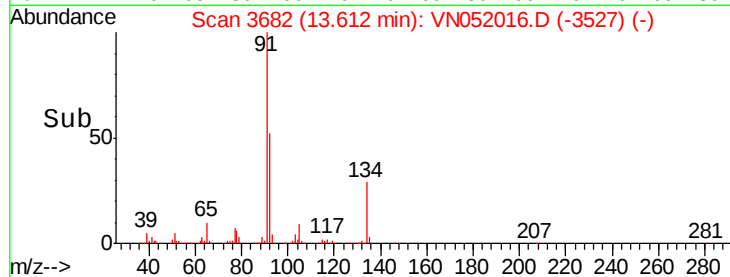
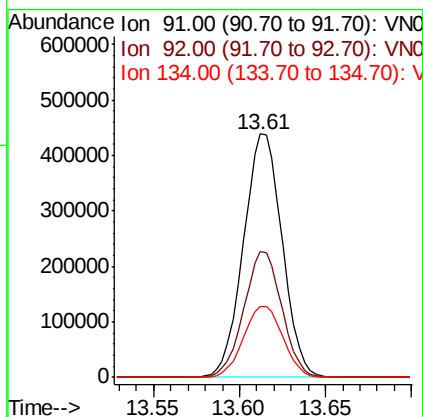
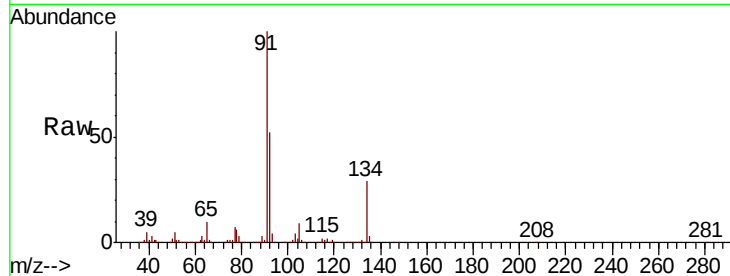
#85
n-Butylbenzene
Concen: 19.383 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.7	0.0	97.4
134	29.8	0.0	49.6

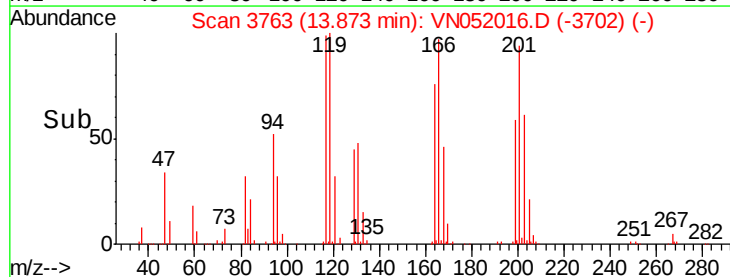
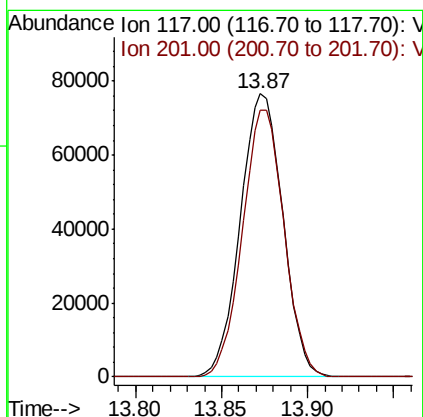
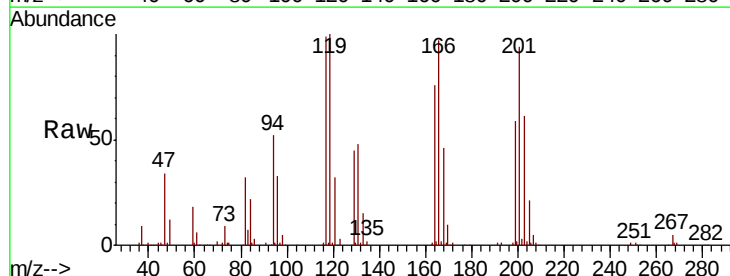
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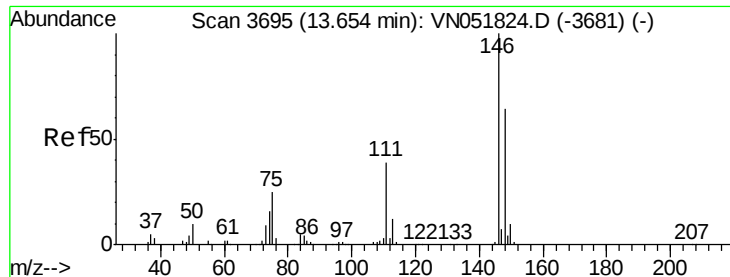
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#86
Hexachloroethane
Concen: 16.357 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN052016.D
Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.9	47.8	143.3





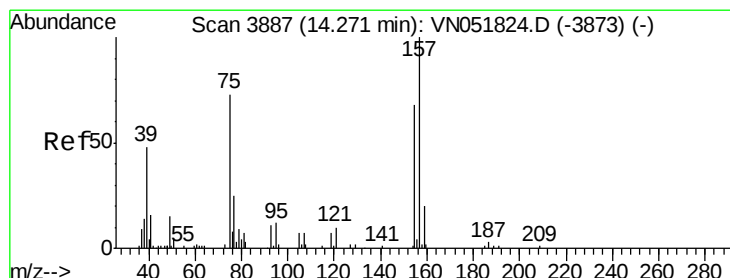
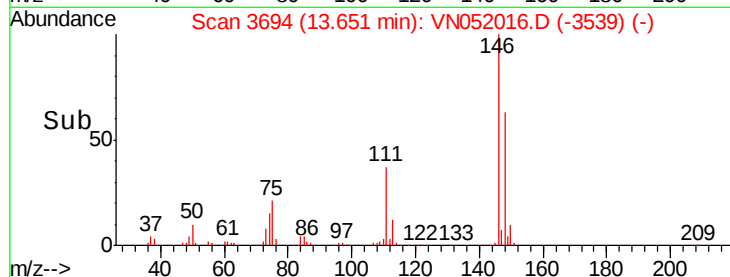
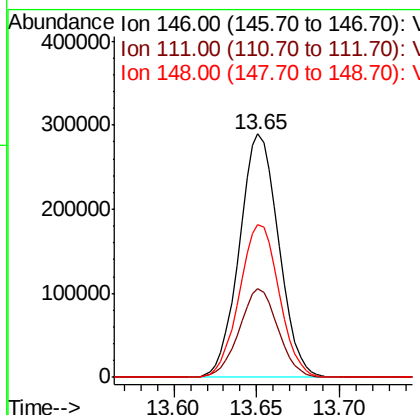
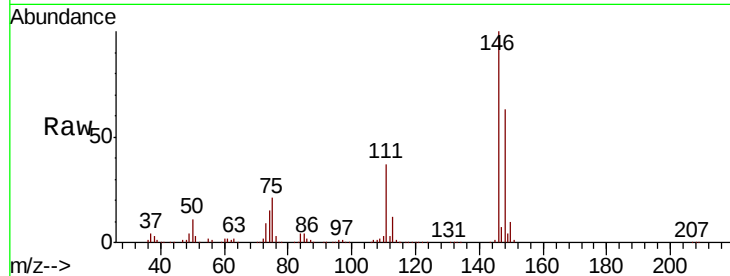
#87
 1,2-Dichlorobenzene
 Concen: 21.530 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.9	20.8	62.2
148	63.7	33.2	99.6

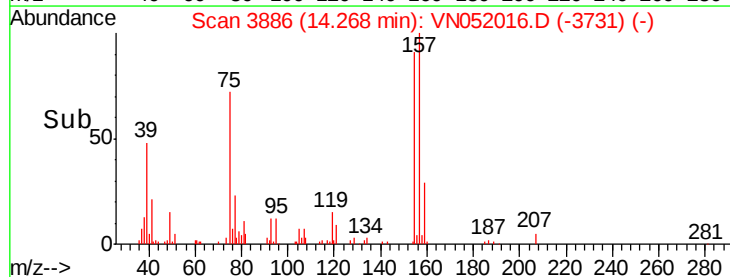
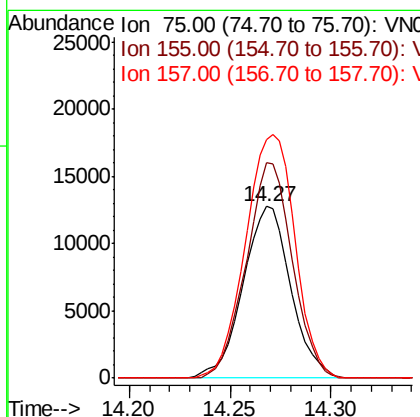
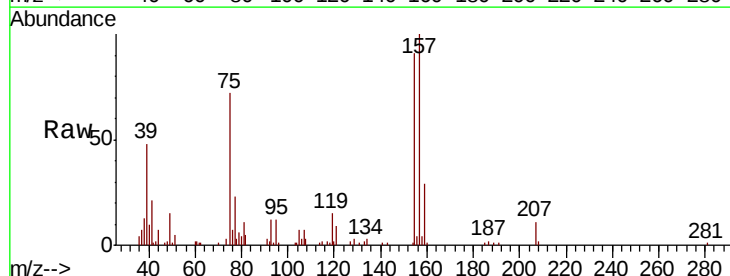
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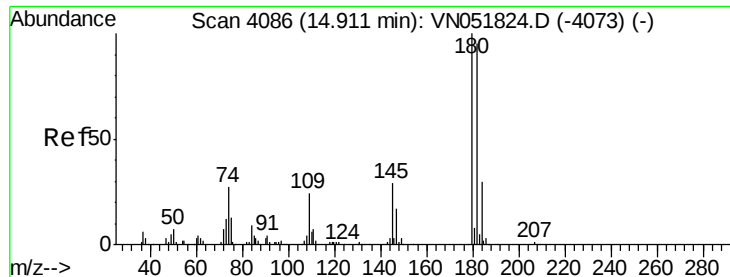
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 13.666 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	121.6	57.0	85.6#
157	147.1	87.4	131.0#





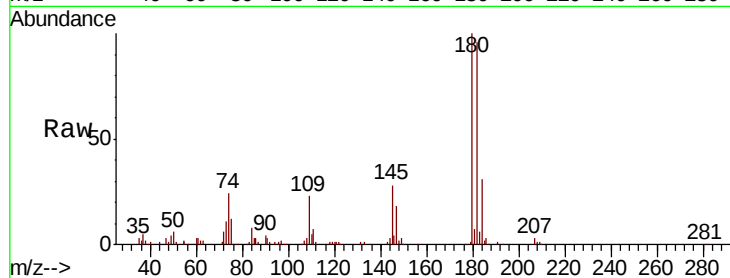
#89
 1,2,4-Trichlorobenzene
 Concen: 19.629 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1025WBSD02

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.7	116.5
145	28.3	23.4	35.2

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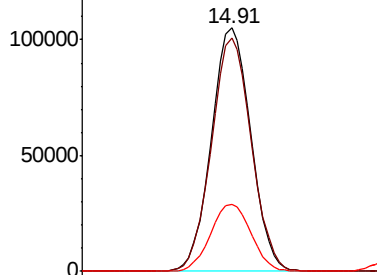


Abundance

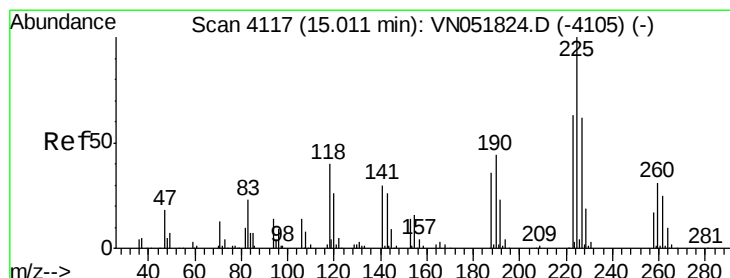
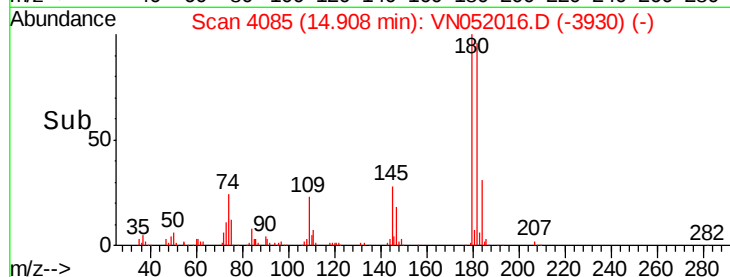
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

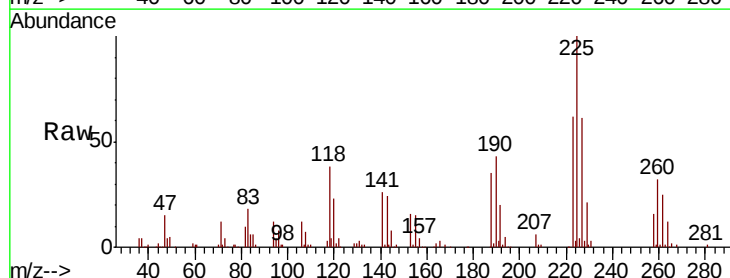


Time-->



#90
 Hexachlorobutadiene
 Concen: 16.653 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052016.D
 Acq: 25 Oct 2018 17:50

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.9	0.0	117.0
227	60.7	0.0	127.0

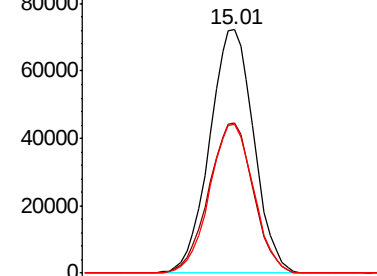


Abundance

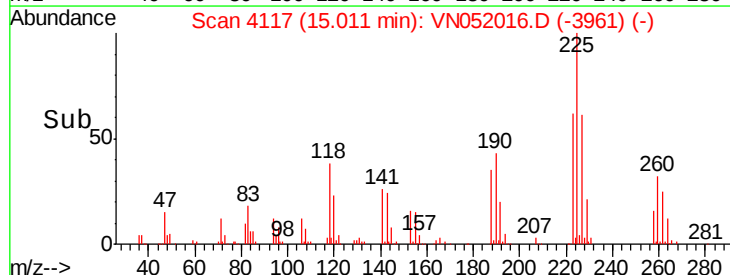
Ion 225.00 (224.70 to 225.70): V

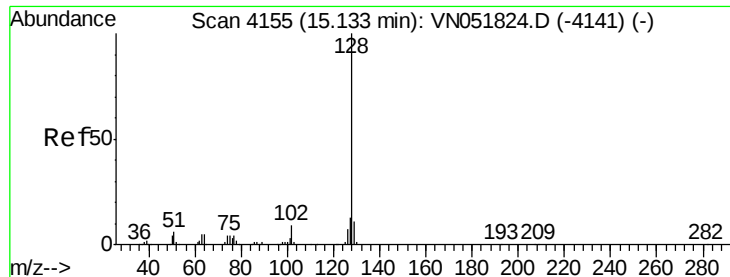
Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



Time-->





#91

Naphthalene

Concen: 19.396 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Instrument :

MSVOA_N

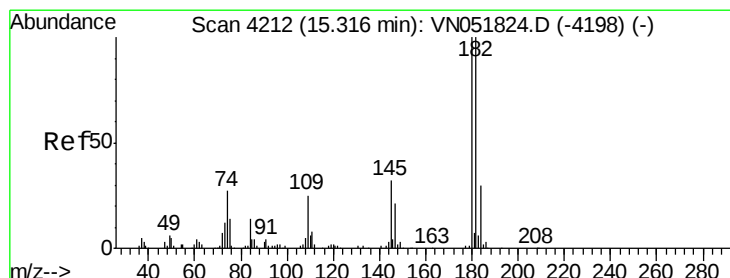
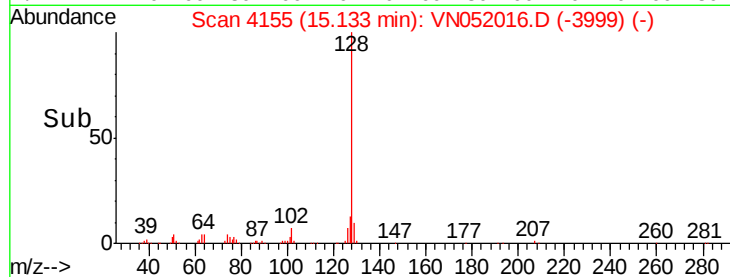
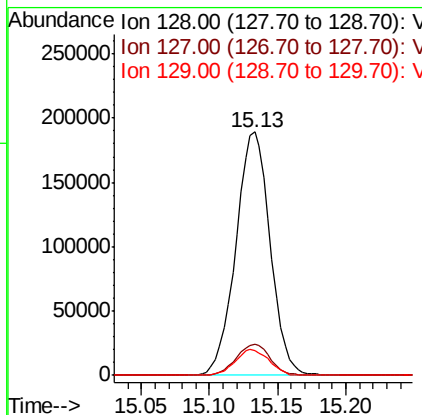
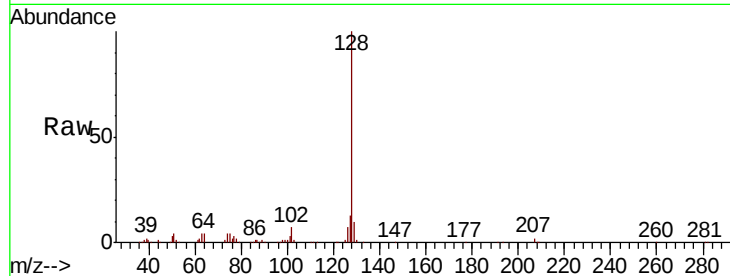
ClientSampleId :

VN1025WBSD02

Tot Ion:	128	Resp:	329821
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.1	15.1
129	10.4	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
10/26/2018 9:20:09 AM



#92

1,2,3-Trichlorobenzene

Concen: 14.338 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052016.D

Acq: 25 Oct 2018 17:50

Tgt Ion:	180	Resp:	144811
Ion Ratio	Lower	Upper	
180	100		
182	94.7	0.0	198.0
145	30.3	0.0	36.8

