

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053228.D
 Acq On : 28 Dec 2018 16:43
 Operator : MD\SY
 Sample : VN1228WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1228WBSD02

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:49:27 AM

Quant Time: Dec 28 23:25:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	811520	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1248543	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1107386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	519662	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	436701	53.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.06%	
35) Dibromofluoromethane	7.59	113	365254	64.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.08%	
50) Toluene-d8	10.09	98	1538216	50.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.48%	
62) 4-Bromofluorobenzene	12.40	95	536303	49.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	153633	18.706	ug/l	98
3) Chloromethane	2.06	50	195228	19.616	ug/l	100
4) Vinyl Chloride	2.19	62	195572	19.402	ug/l	100
5) Bromomethane	2.58	94	126885	18.169	ug/l	98
6) Chloroethane	2.71	64	117971	19.761	ug/l	98
7) Trichlorofluoromethane	3.02	101	262265	20.886	ug/l	98
8) Diethyl Ether	3.41	74	103669	21.884	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.77	101	167820	20.961	ug/l	99
10) Methyl Iodide	3.96	142	202337	17.996	ug/l	100
11) Tert butyl alcohol	4.78	59	58411	116.243	ug/l #	85
12) 1,1-Dichloroethene	3.74	96	156506	20.234	ug/l	98
13) Acrolein	3.61	56	45341	99.513	ug/l	98
14) Allyl chloride	4.33	41	263351	21.981	ug/l	95
15) Acrylonitrile	4.99	53	316176	113.260	ug/l	98
16) Acetone	3.82	43	209417	129.694	ug/l	93
17) Carbon Disulfide	4.06	76	415964	16.490	ug/l	98
18) Methyl Acetate	4.33	43	181697	25.293	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	464469	22.439	ug/l	99
20) Methylene Chloride	4.56	84	190647	21.645	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	169875	20.441	ug/l	97
22) Diisopropyl ether	5.95	45	587297	22.965	ug/l	100
23) Vinyl Acetate	5.90	43	1712116	116.426	ug/l	99
24) 1,1-Dichloroethane	5.85	63	332685	21.892	ug/l	99
25) 2-Butanone	6.84	43	336000	123.991	ug/l	98
26) 2,2-Dichloropropane	6.83	77	233576	20.135	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	201190	21.384	ug/l	100
28) Bromochloromethane	7.20	49	154099	23.402	ug/l	98
29) Tetrahydrofuran	7.21	42	235277	116.249	ug/l	98
30) Chloroform	7.37	83	326773	21.889	ug/l	99
31) Cyclohexane	7.66	56	296928	20.207	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	269470	21.190	ug/l	99
36) 1,1-Dichloropropene	7.80	75	241939	20.189	ug/l	99
37) Ethyl Acetate	6.93	43	156802	23.438	ug/l	99
38) Carbon Tetrachloride	7.78	117	226209	20.594	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	267677	18.387	ug/l	99
40) Benzene	8.05	78	761340	21.358	ug/l	99
41) Methacrylonitrile	7.17	41	87984	22.762	ug/l	98
42) 1,2-Dichloroethane	8.13	62	227945	21.646	ug/l	98
43) Isopropyl Acetate	8.17	43	289986	21.810	ug/l	99
44) Trichloroethene	8.84	130	201954	19.588	ug/l	98
45) 1,2-Dichloropropane	9.12	63	204048	21.977	ug/l	99
46) Dibromomethane	9.21	93	115482	21.351	ug/l	99
47) Bromodichloromethane	9.40	83	248772	21.638	ug/l	100
48) Methyl methacrylate	9.20	41	141613	21.814	ug/l	99
49) 1,4-Dioxane	9.20	88	35185	428.470	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	780140	120.416	ug/l	99
52) Toluene	10.16	92	461055	20.868	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	247050	20.435	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	289806	20.884	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	173341	22.489	ug/l	99
56) Ethyl methacrylate	10.43	69	226476	22.199	ug/l	96
57) 1,3-Dichloropropane	10.71	76	290072	21.946	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	607667	108.493	ug/l	99
59) 2-Hexanone	10.75	43	514873	117.460	ug/l	99
60) Dibromochloromethane	10.90	129	187336	21.232	ug/l	100
61) 1,2-Dibromoethane	11.01	107	168140	21.479	ug/l	100
64) Tetrachloroethene	10.63	164	216762	18.070	ug/l	96
65) Chlorobenzene	11.44	112	514236	20.949	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	181926	21.312	ug/l	99
67) Ethyl Benzene	11.51	91	880346	20.854	ug/l	100
68) m/p-Xylenes	11.62	106	664406	41.400	ug/l	99
69) o-Xylene	11.95	106	327921	21.294	ug/l	99
70) Styrene	11.97	104	533194	21.233	ug/l	99
71) Bromoform	12.13	173	126891	20.576	ug/l #	99
73) Isopropylbenzene	12.25	105	861001	21.176	ug/l	99
74) N-amyl acetate	12.07	43	252788	22.394	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	201174	25.220	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	173137m	19.792	ug/l	
77) Bromobenzene	12.53	156	222151	21.019	ug/l	99
78) n-propylbenzene	12.59	91	957650	20.680	ug/l	100
79) 2-Chlorotoluene	12.68	91	581508	20.259	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	681999	20.579	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	54881	20.220	ug/l	99
82) 4-Chlorotoluene	12.77	91	584610	20.806	ug/l	100
83) tert-Butylbenzene	12.99	119	606393	20.689	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	694312	20.840	ug/l	100
85) sec-Butylbenzene	13.17	105	788102	19.879	ug/l	99
86) p-Isopropyltoluene	13.29	119	678350	19.802	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	382683	20.458	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	378080	19.959	ug/l	100
89) n-Butylbenzene	13.62	91	536438	18.202	ug/l	100
90) Hexachloroethane	13.88	117	106138	20.190	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	371828	21.121	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	29247	21.205	ug/l	97

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VN1228WBSD02

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	165802	18.160	ug/l	100
94) Hexachlorobutadiene	15.01	225	107452	20.559	ug/l	98
95) Naphthalene	15.14	128	361328	18.426	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	150155	18.204	ug/l	100

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

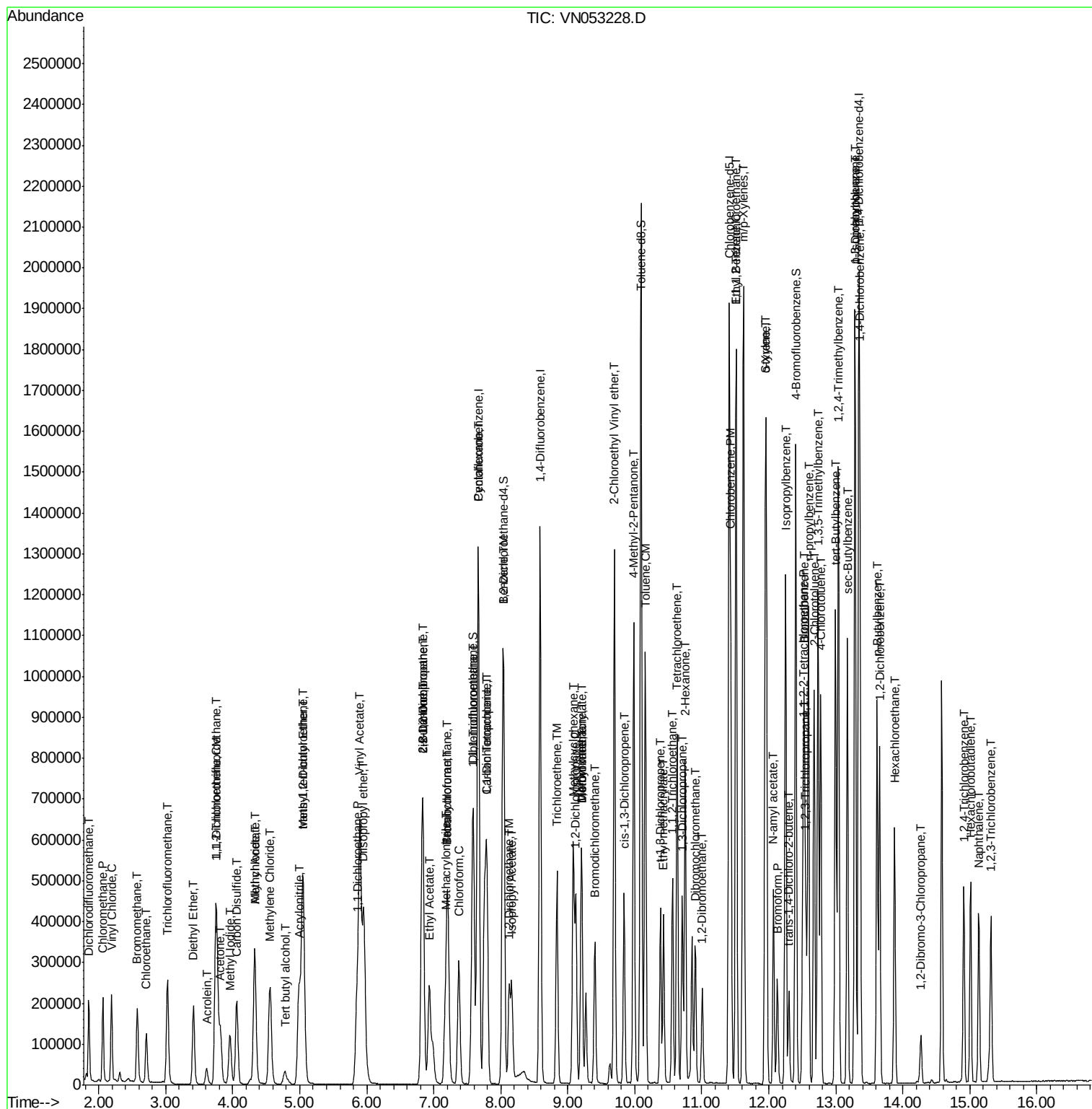
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Operator : MD\SY
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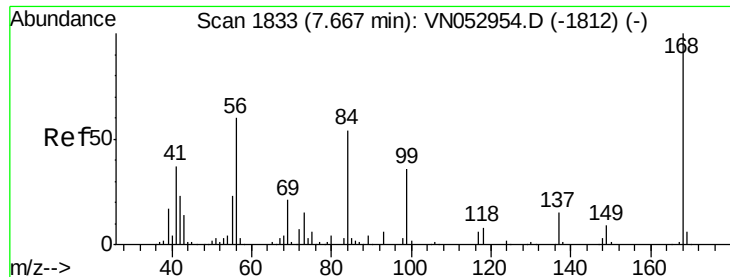
Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN1228WBSD02

Tot Ion:168 Resp: 811520

Ion Ratio Lower Upper

168 100

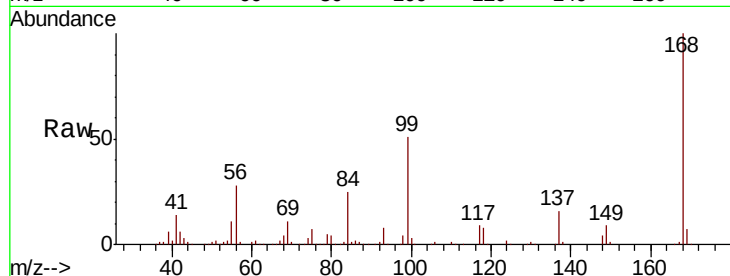
99 50.6 40.2 60.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

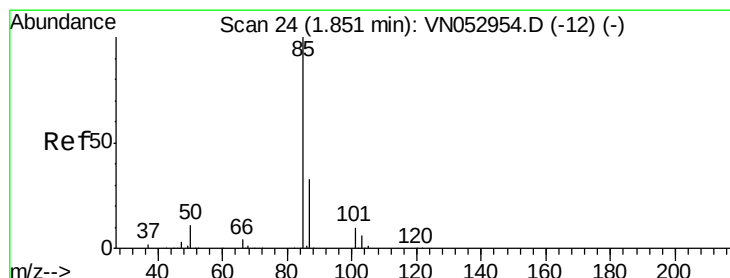
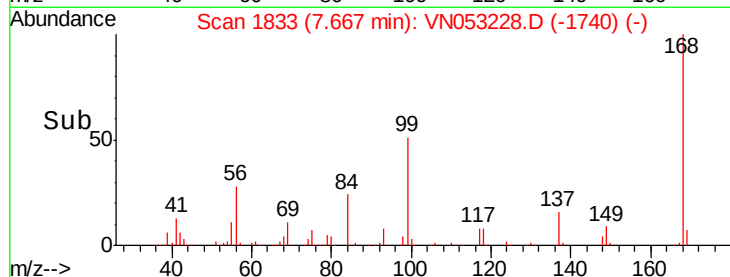
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 18.706 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053228.D

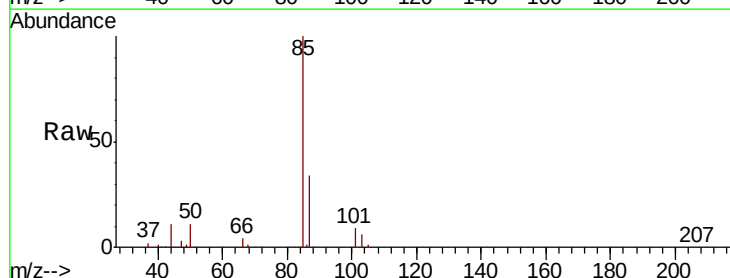
Acq: 28 Dec 2018 16:43

Tgt Ion: 85 Resp: 153633

Ion Ratio Lower Upper

85 100

87 33.7 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

120000

100000

80000

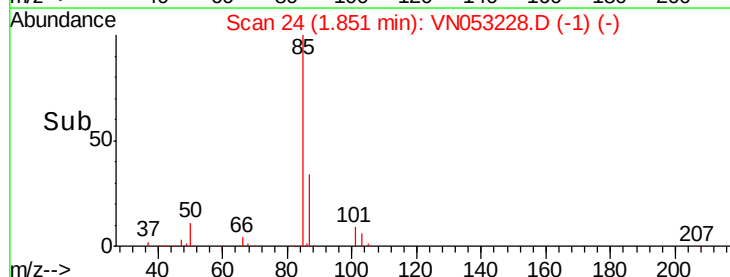
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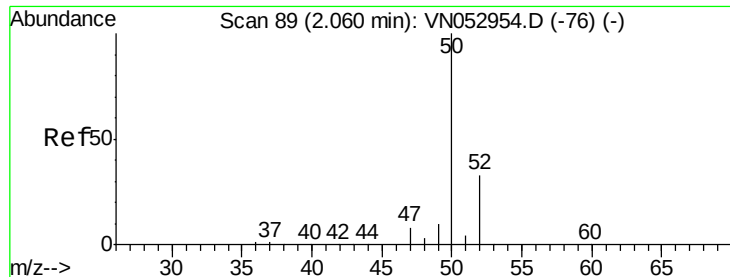
40000

20000

0

Time--> 1.80 1.85 1.90 1.95





#3

Chloromethane

Concen: 19.616 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN1228WBSD02

Tot Ion: 50 Resp: 195228

Ion Ratio Lower Upper

50 100

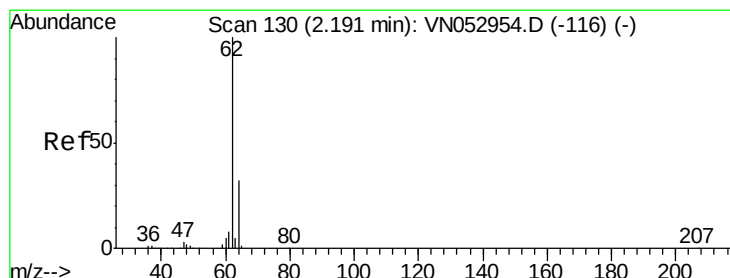
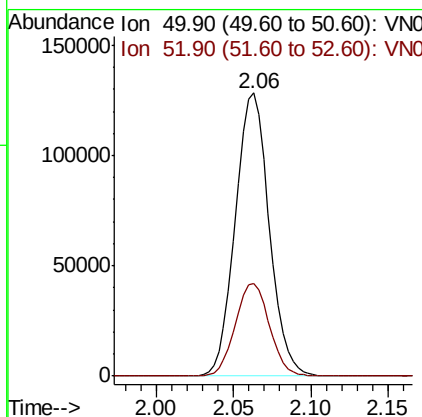
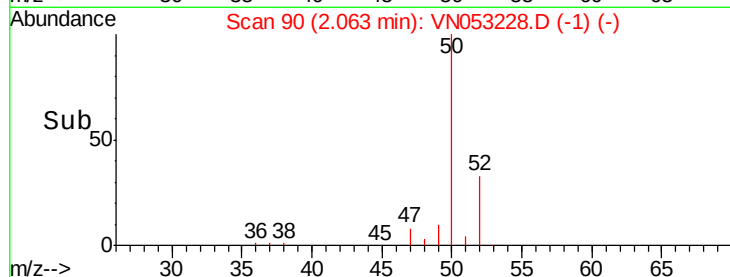
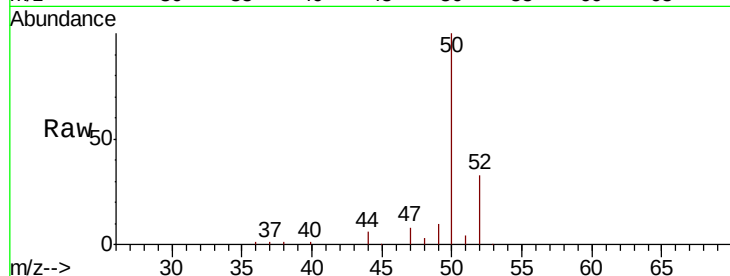
52 32.9 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.402 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053228.D

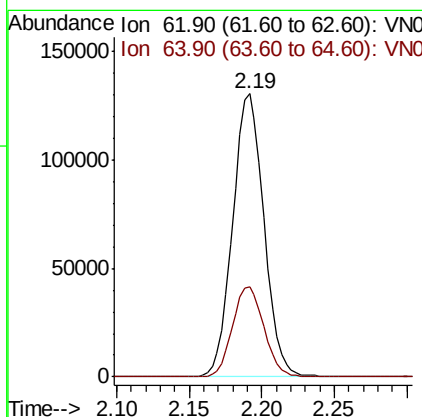
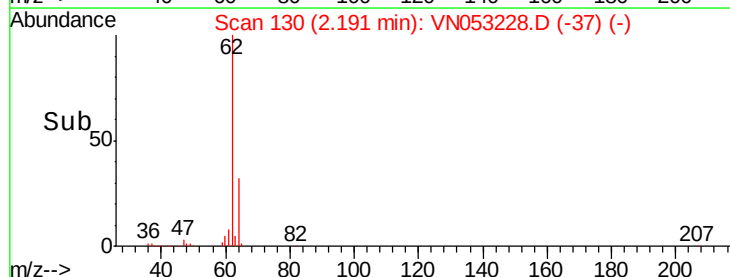
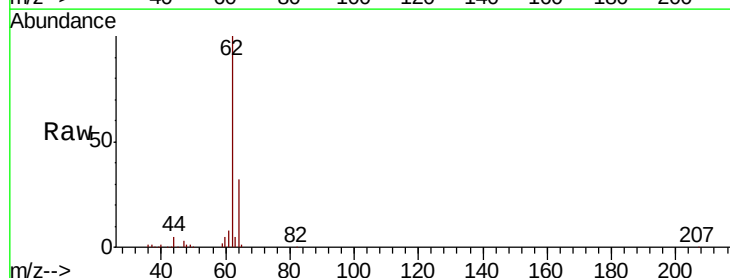
Acq: 28 Dec 2018 16:43

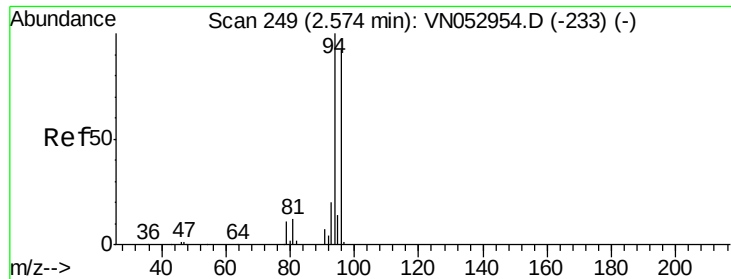
Tgt Ion: 62 Resp: 195572

Ion Ratio Lower Upper

62 100

64 32.0 25.5 38.3





#5

Bromomethane

Concen: 18.169 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

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ClientSampleId :

VN1228WBSD02

Tot Ion: 94 Resp: 126885

Ion Ratio Lower Upper

94 100

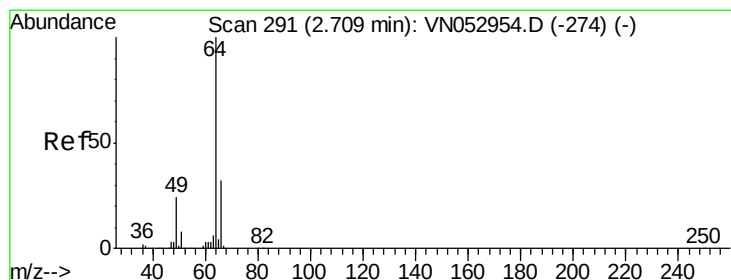
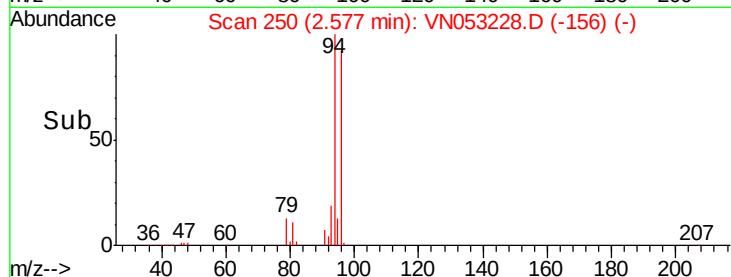
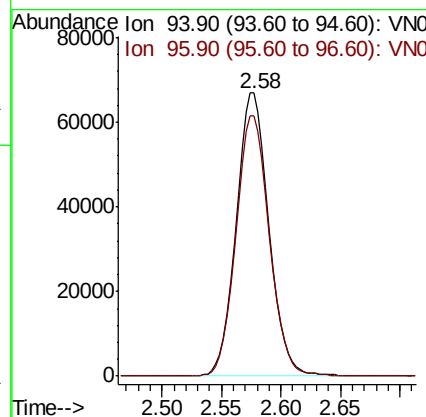
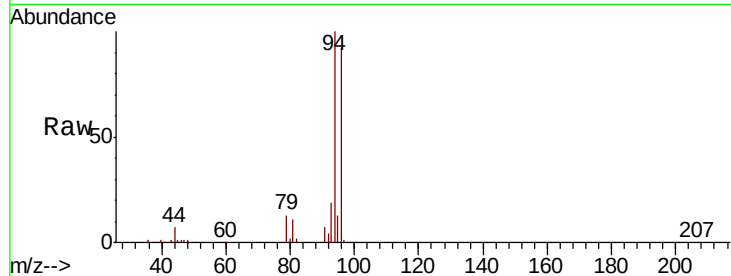
96 91.8 75.0 112.4

Manual Integrations

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#6

Chloroethane

Concen: 19.761 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN053228.D

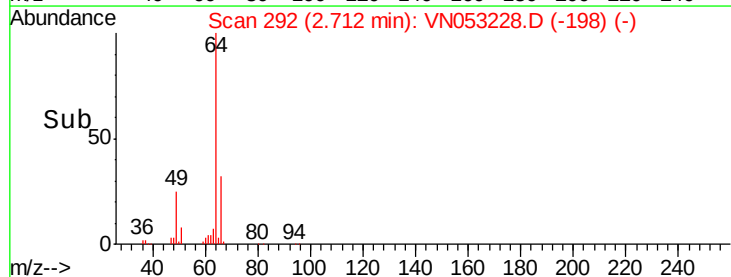
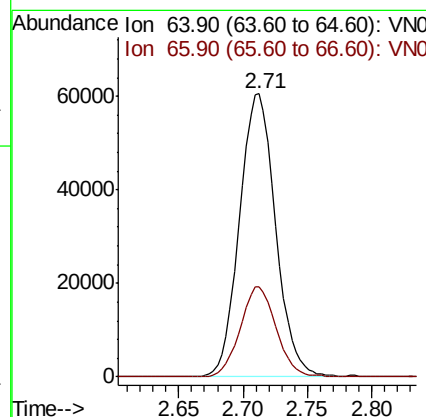
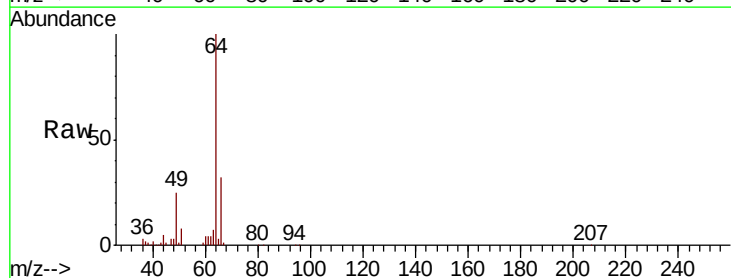
Acq: 28 Dec 2018 16:43

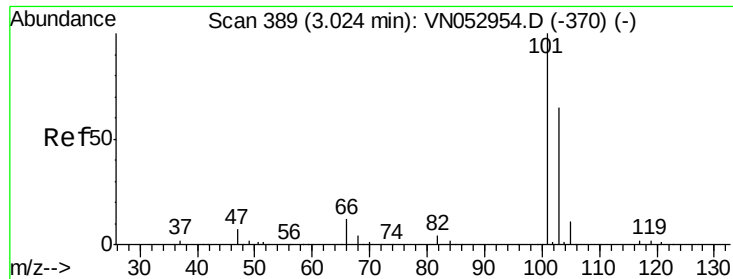
Tgt Ion: 64 Resp: 117971

Ion Ratio Lower Upper

64 100

66 31.8 26.2 39.2





#7

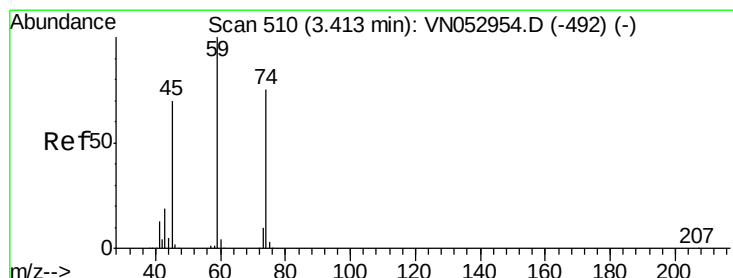
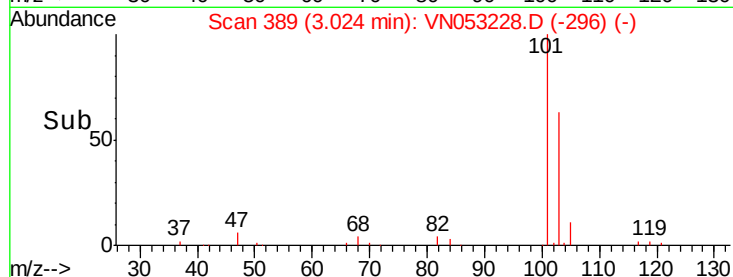
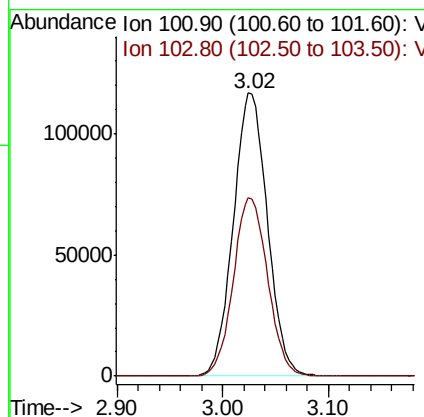
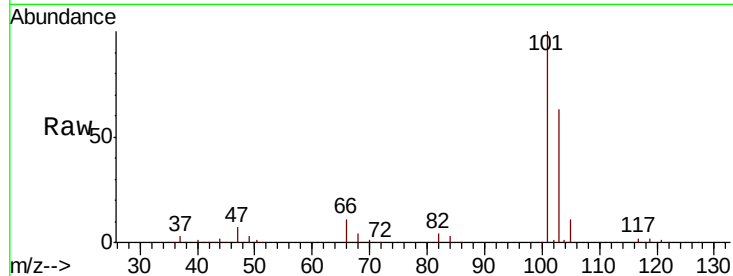
Trichlorofluoromethane
Concen: 20.886 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampled :
VN1228WBSD02

Tot Ion:101 Resp: 262265
Ion Ratio Lower Upper
101 100
103 63.0 51.8 77.6

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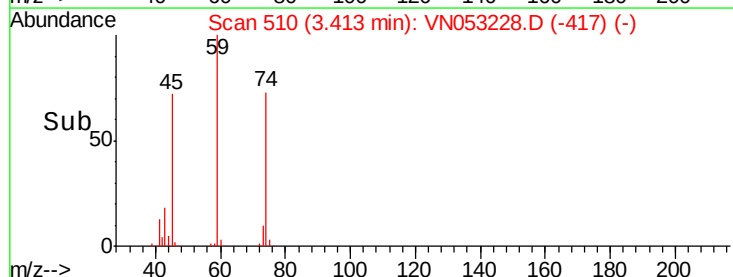
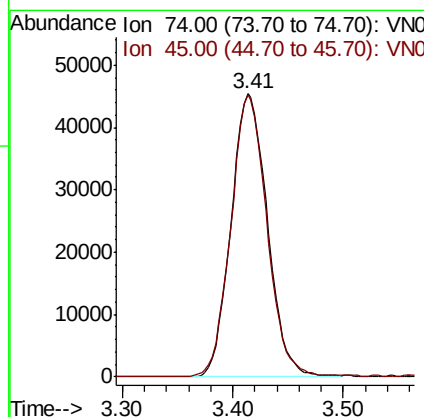
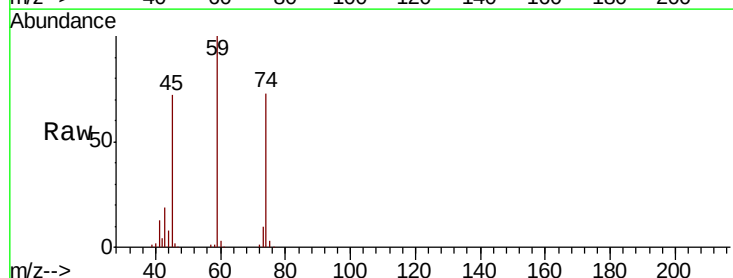
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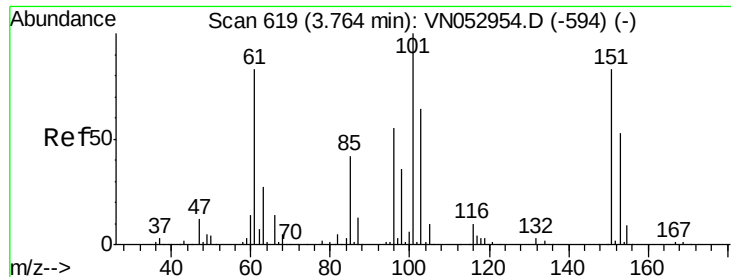


#8

Diethyl Ether
Concen: 21.884 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion: 74 Resp: 103669
Ion Ratio Lower Upper
74 100
45 98.7 49.4 148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.961 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

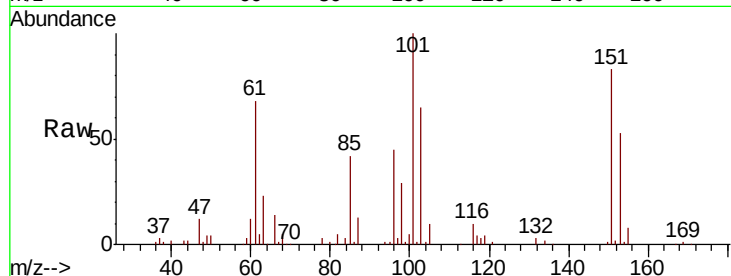
ClientSampleId :

VN1228WBSD02

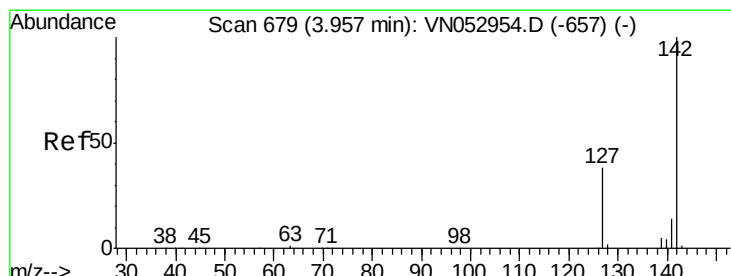
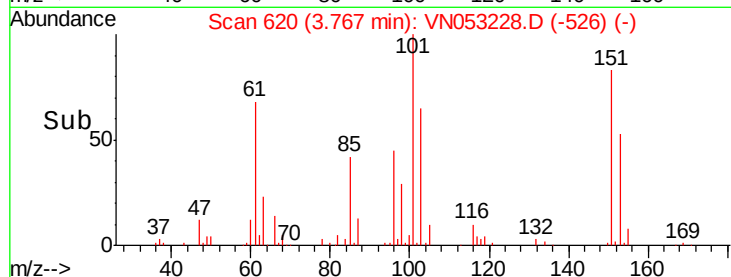
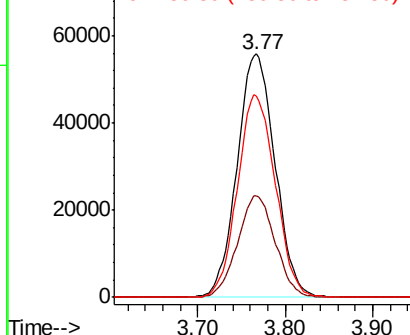
Tot Ion:	101	Resp:	167820
Ion Ratio	Lower	Upper	
101	100		
85	41.3	33.6	50.4
151	82.9	65.5	98.3

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 17.996 ug/l

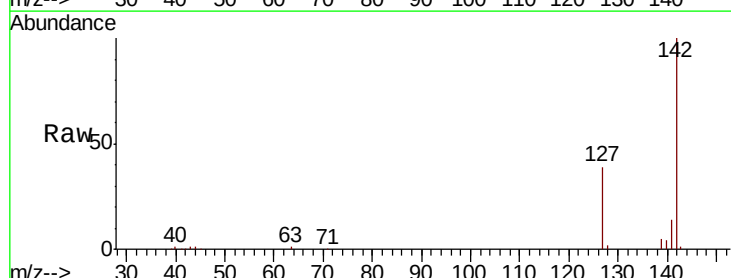
RT: 3.96 min Scan# 680

Delta R.T. 0.00 min

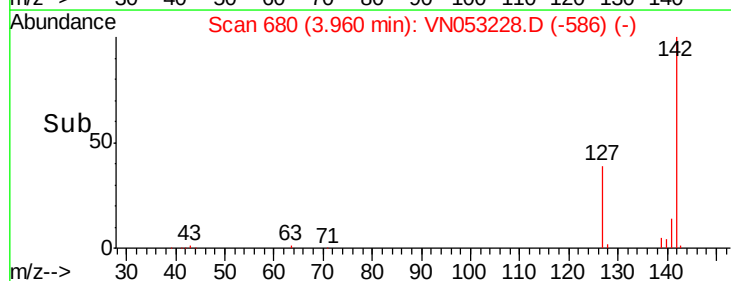
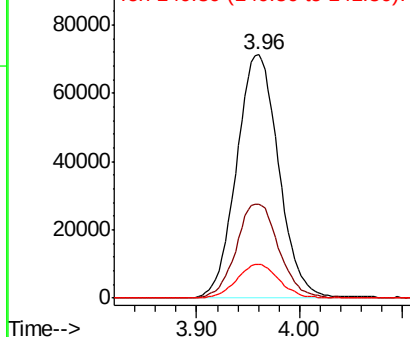
Lab File: VN053228.D

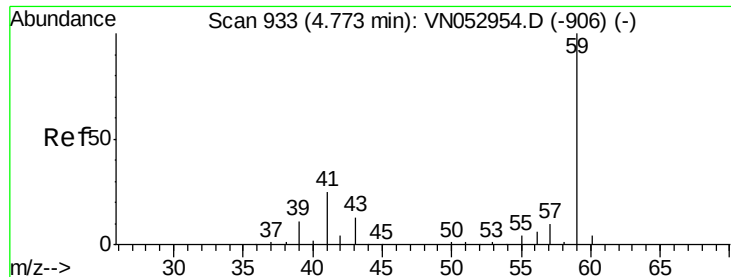
Acq: 28 Dec 2018 16:43

Tgt Ion:	142	Resp:	202337
Ion Ratio	Lower	Upper	
142	100		
127	39.0	31.0	46.6
141	13.9	11.2	16.8



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





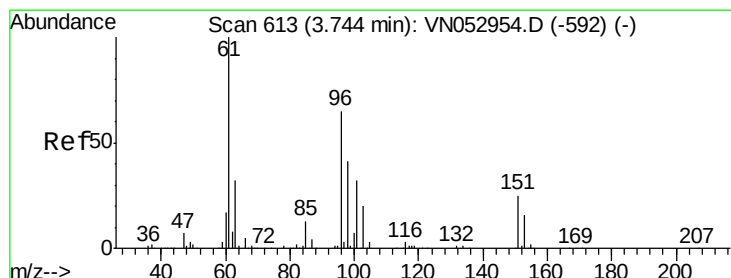
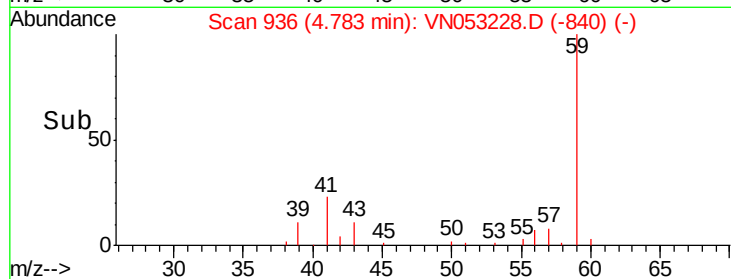
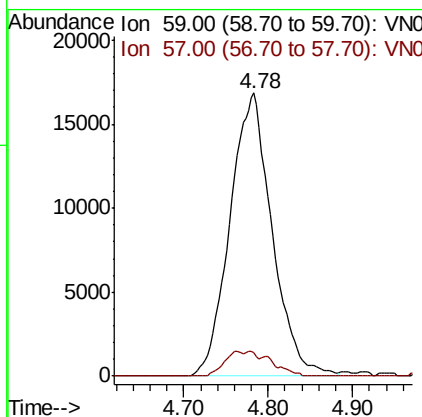
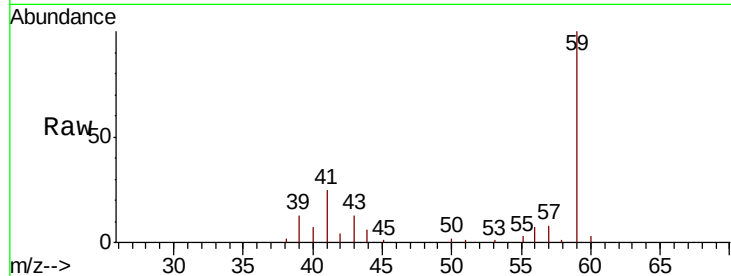
#11
Tert butyl alcohol
Concen: 116.243 ug/l
RT: 4.78 min Scan# 936
Delta R.T. 0.01 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	3.9	7.7	11.5#

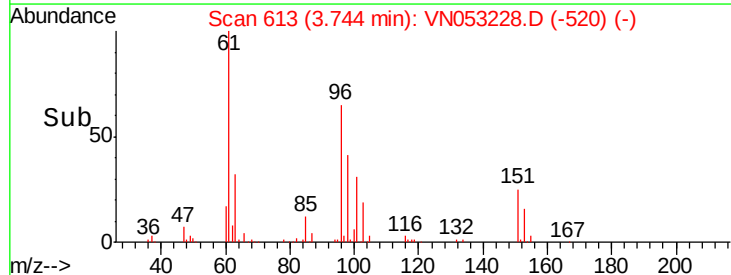
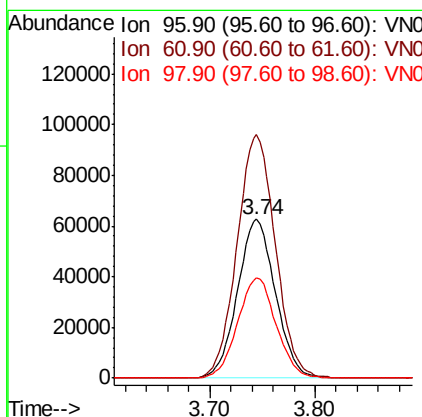
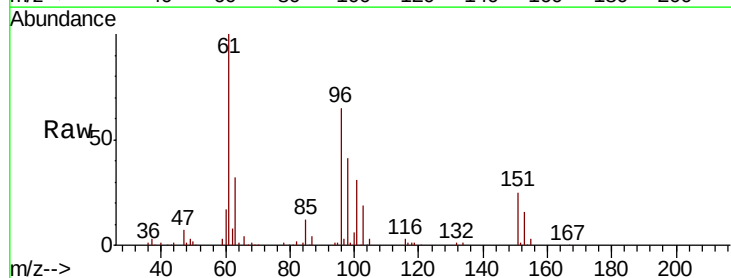
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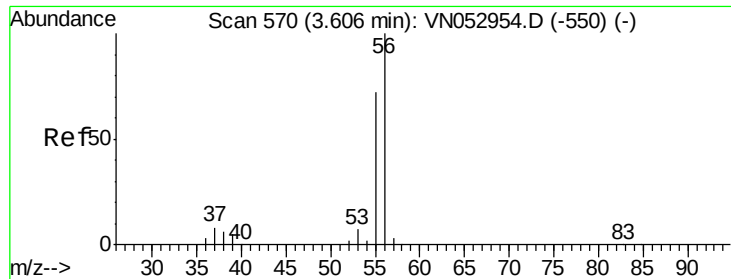
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#12
1,1-Dichloroethene
Concen: 20.234 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.2	125.6	188.4
98	62.8	50.6	75.8





#13

Acrolein

Concen: 99.513 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN1228WBSD02

Tot Ion: 56 Resp: 45341

Ion Ratio Lower Upper

56 100

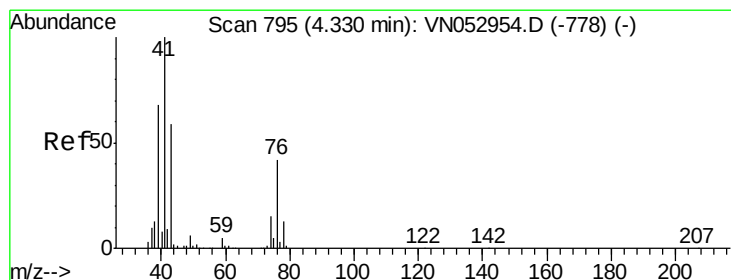
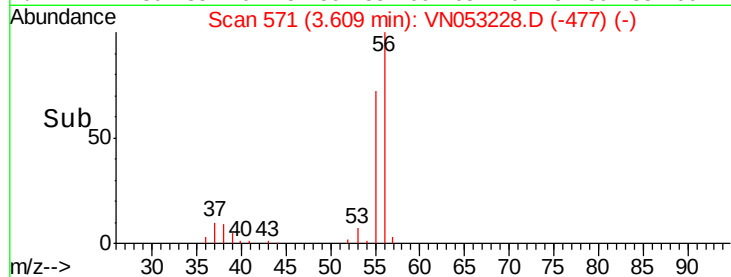
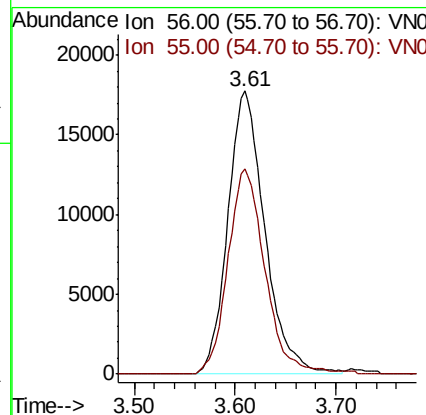
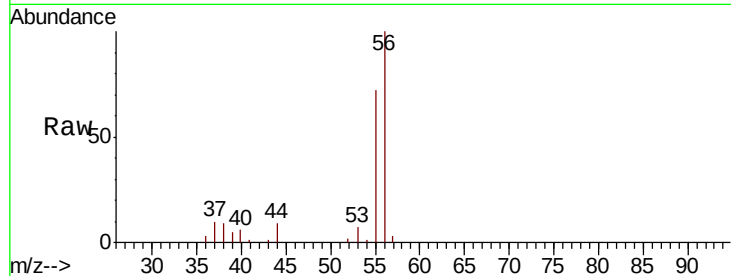
55 72.5 56.6 85.0

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#14

Allyl chloride

Concen: 21.981 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

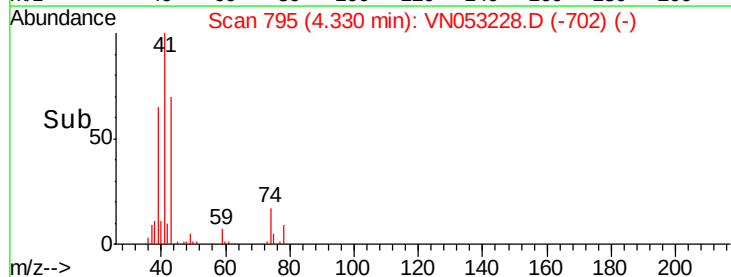
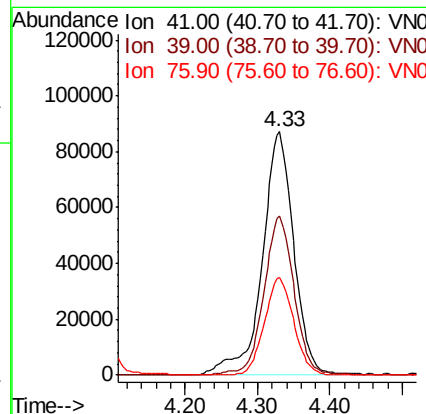
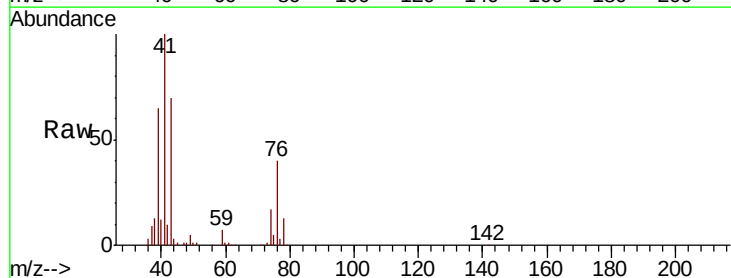
Tgt Ion: 41 Resp: 263351

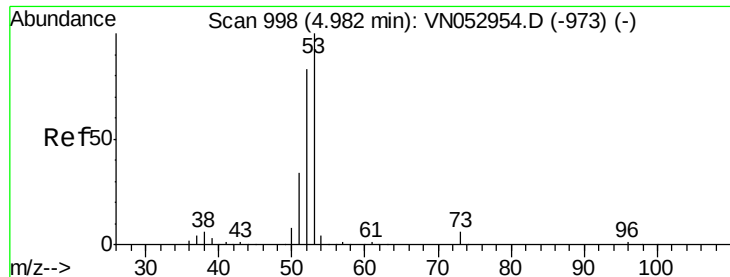
Ion Ratio Lower Upper

41 100

39 62.7 54.1 81.1

76 36.7 30.3 45.5





#15

Acrylonitrile

Concen: 113.260 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

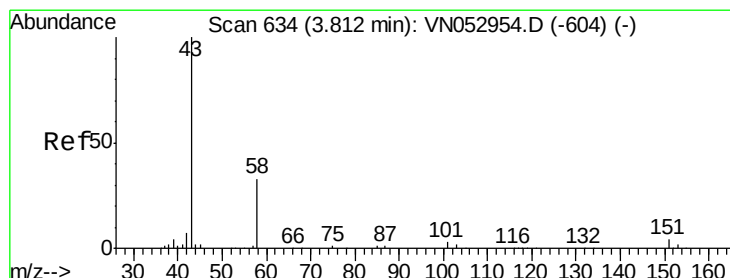
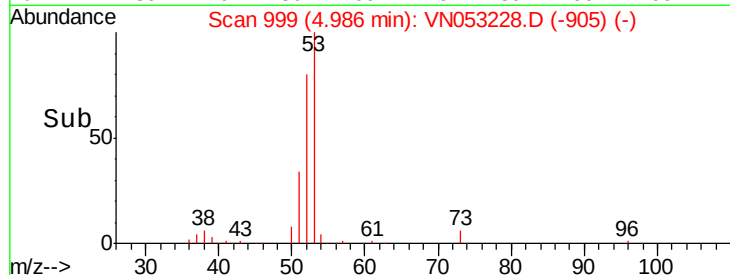
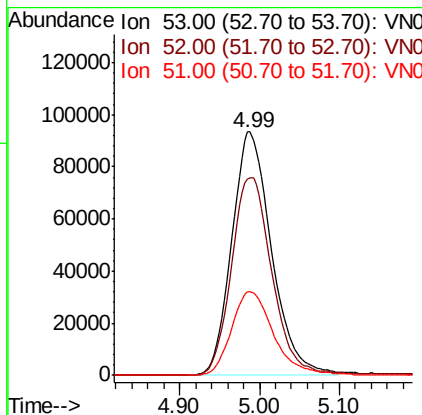
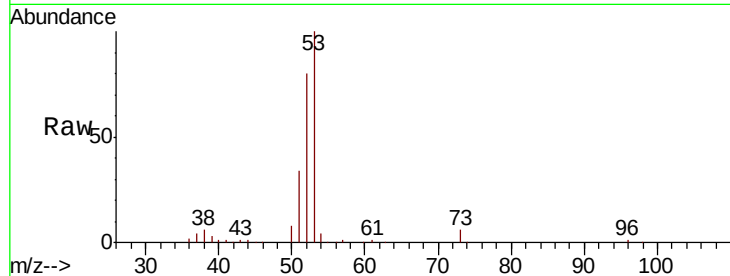
ClientSampleId :

VN1228WBSD02

Tot Ion:	53	Resp:	316176
Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.1	97.7
51	36.4	28.1	42.1

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#16

Acetone

Concen: 129.694 ug/l

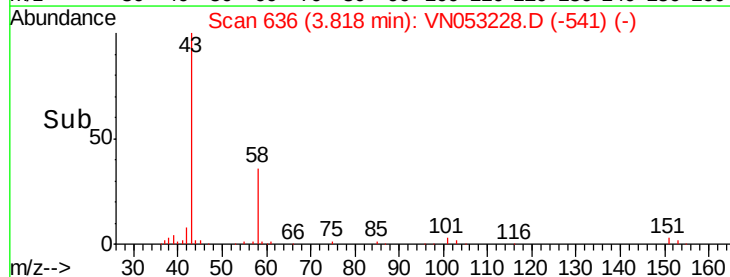
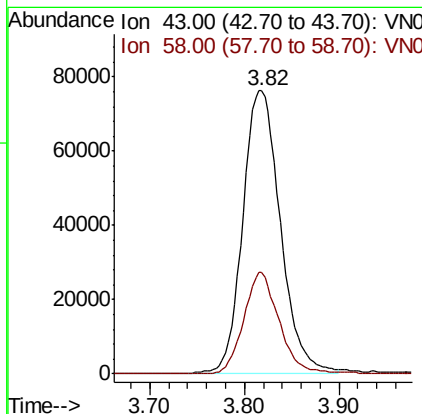
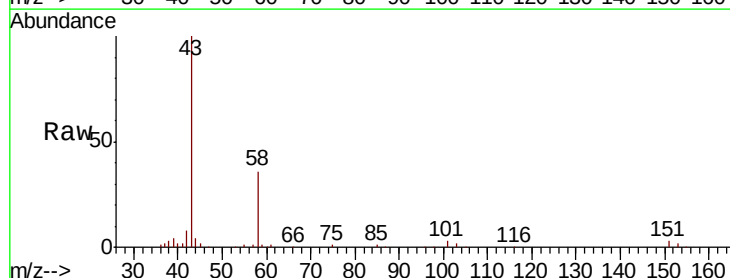
RT: 3.82 min Scan# 636

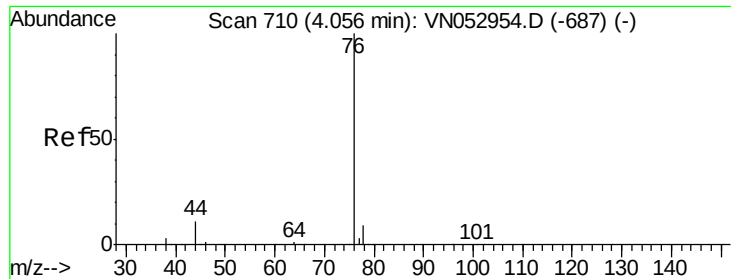
Delta R.T. 0.01 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Tgt Ion:	43	Resp:	209417
Ion	Ratio	Lower	Upper
43	100		
58	35.6	25.4	38.0





#17

Carbon Disulfide

Concen: 16.490 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN1228WBSD02

Tot Ion: 76 Resp: 415964

Ion Ratio Lower Upper

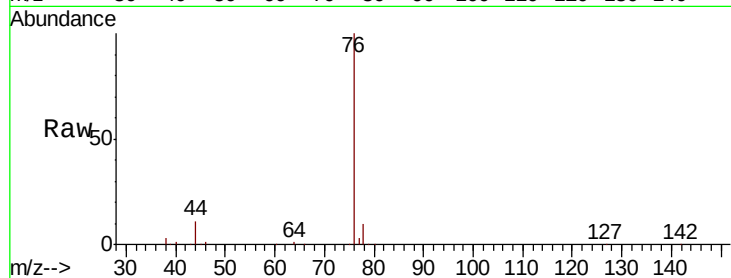
76 100

78 9.6 7.1 10.7

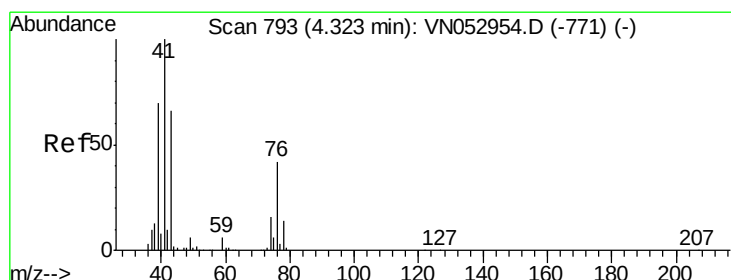
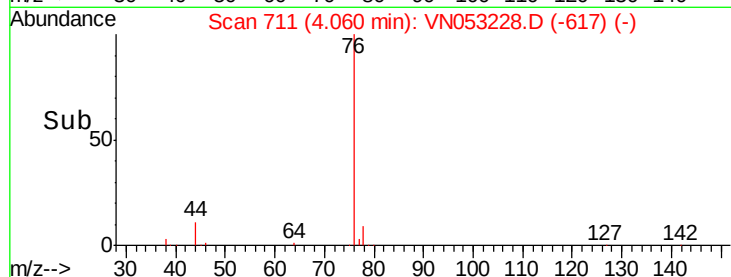
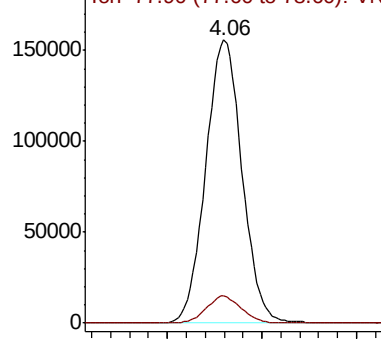
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Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 25.293 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053228.D

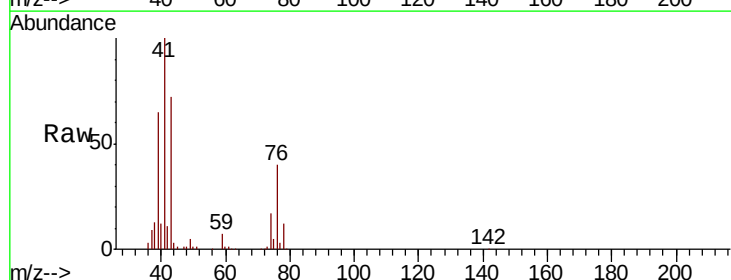
Acq: 28 Dec 2018 16:43

Tgt Ion: 43 Resp: 181697

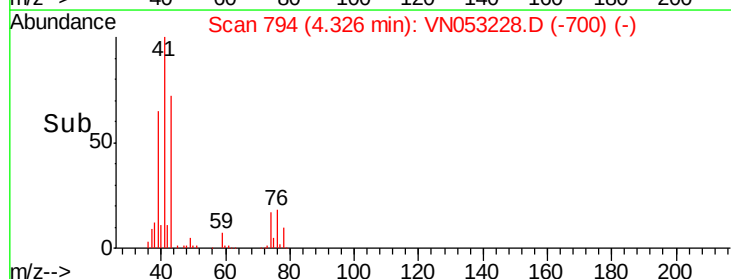
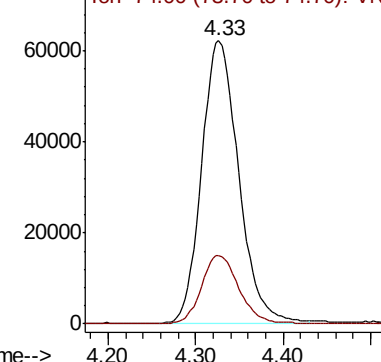
Ion Ratio Lower Upper

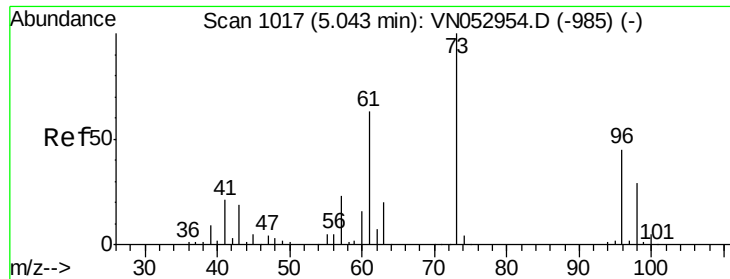
43 100

74 24.6 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 74.00 (73.70 to 74.70): VNO





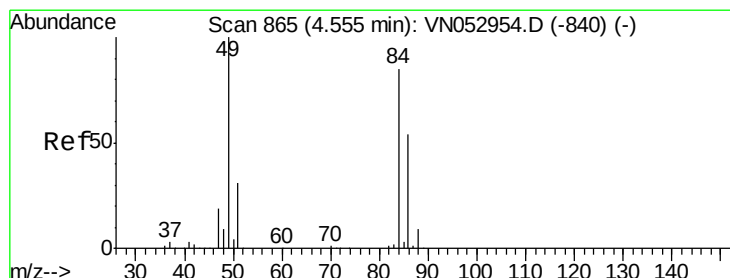
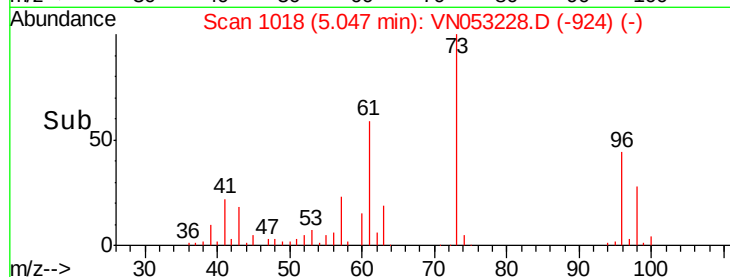
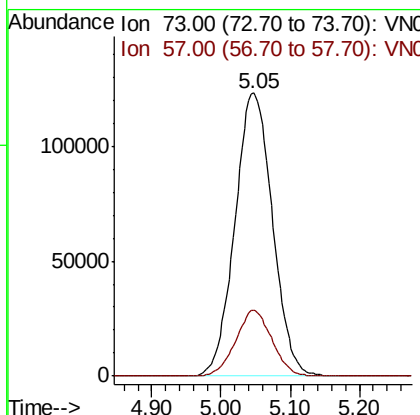
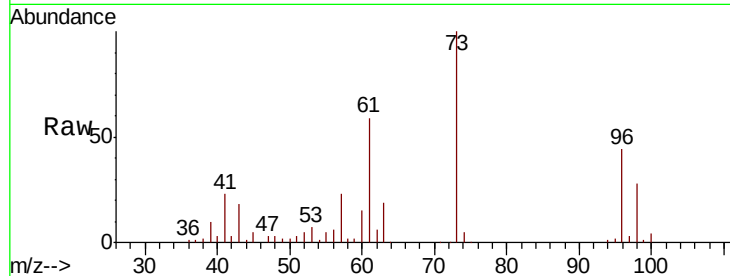
#19
Methyl tert-butyl Ether
Concen: 22.439 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampled :
VN1228WBSD02

Tot Ion: 73 Resp: 464469
Ion Ratio Lower Upper
73 100
57 23.5 18.4 27.6

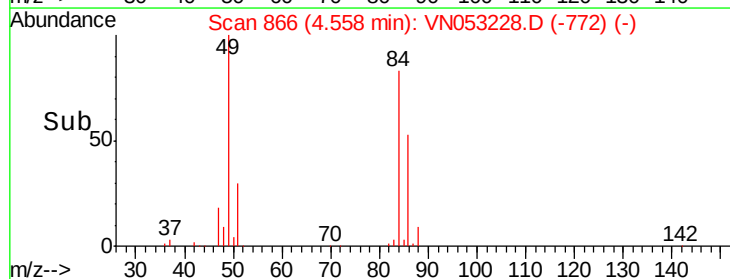
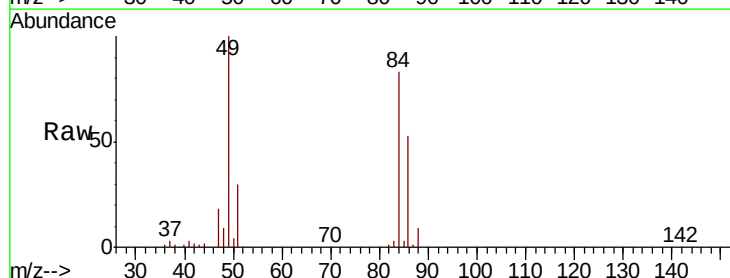
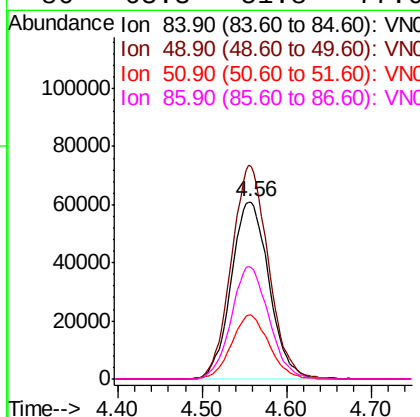
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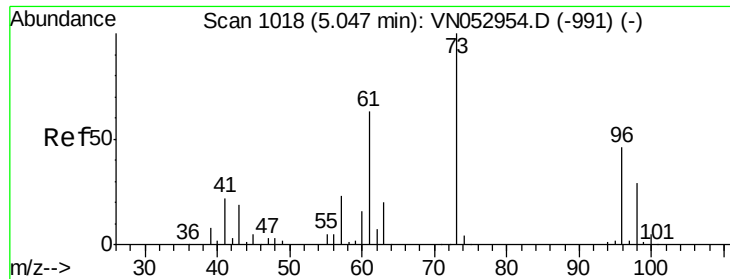
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#20
Methylene Chloride
Concen: 21.645 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion: 84 Resp: 190647
Ion Ratio Lower Upper
84 100
49 120.4 96.8 145.2
51 35.9 29.9 44.9
86 63.3 51.8 77.6





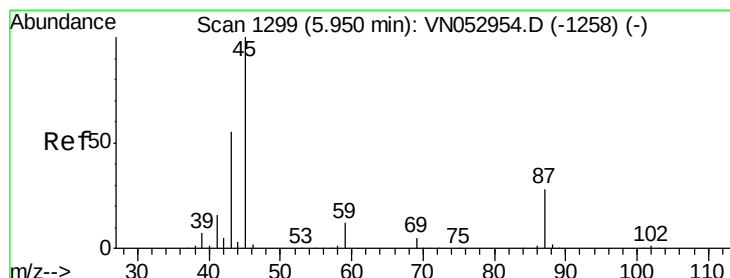
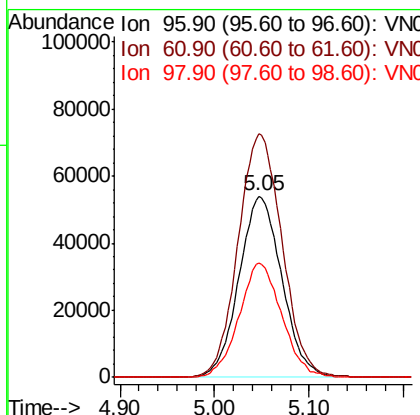
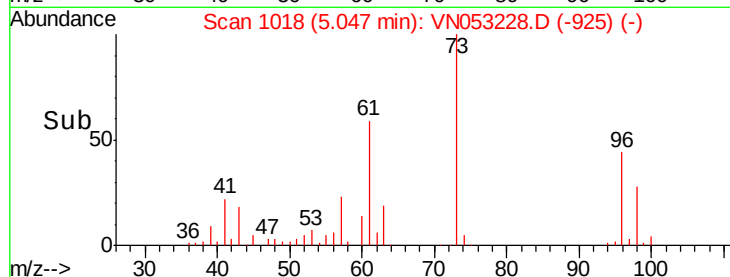
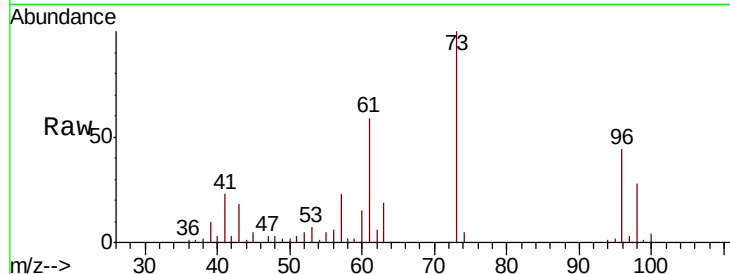
#21
trans-1,2-Dichloroethene
Concen: 20.441 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.2	110.8	166.2
98	63.3	51.4	77.2

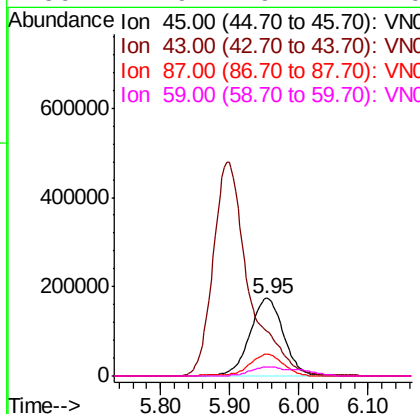
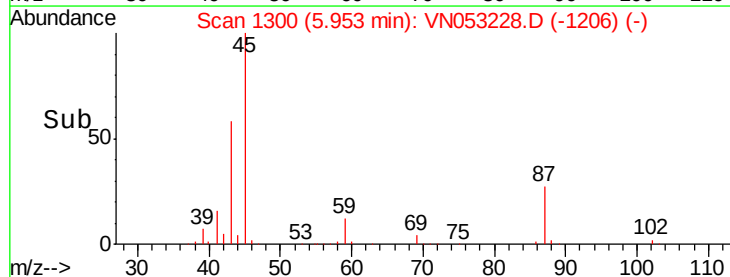
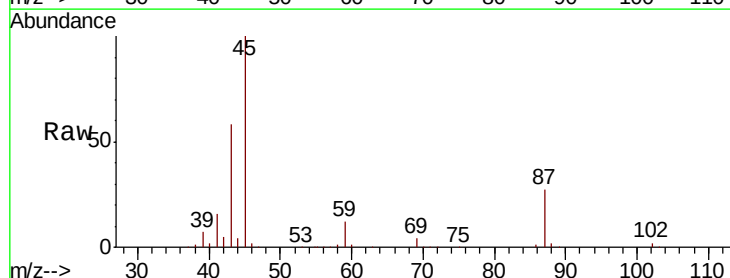
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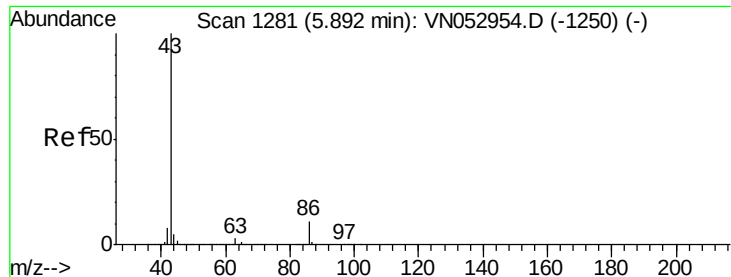
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#22
Diisopropyl ether
Concen: 22.965 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.6	45.5	68.3
87	27.4	22.0	33.0
59	11.9	9.4	14.0





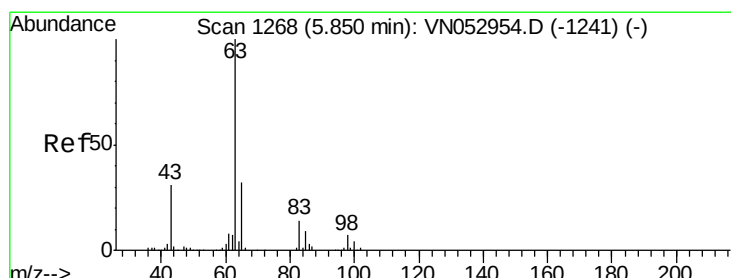
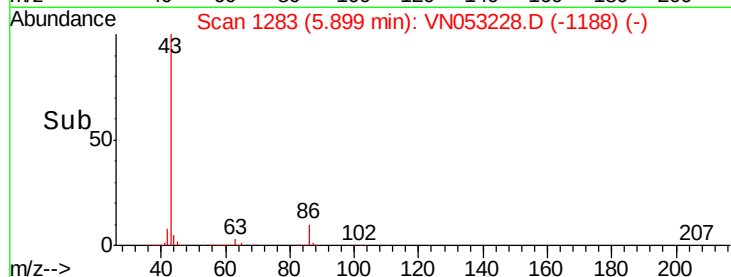
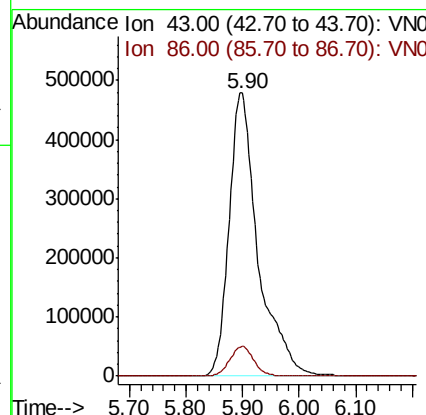
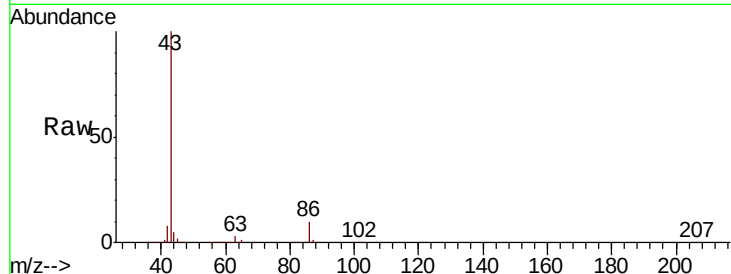
#23
 Vinyl Acetate
 Concen: 116.426 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.01 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1228WBSD02

Tot Ion: 43 Resp: 1712116
 Ion Ratio Lower Upper
 43 100
 86 10.4 8.1 12.1

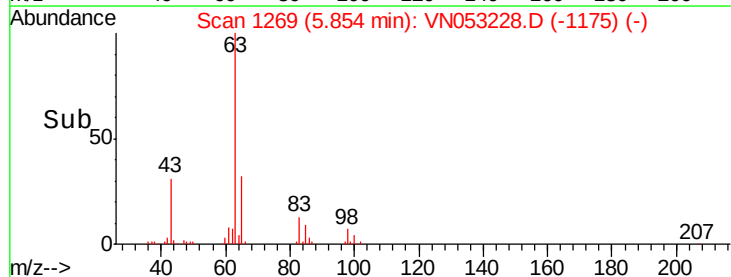
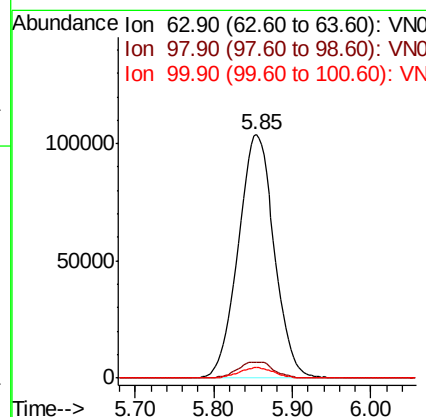
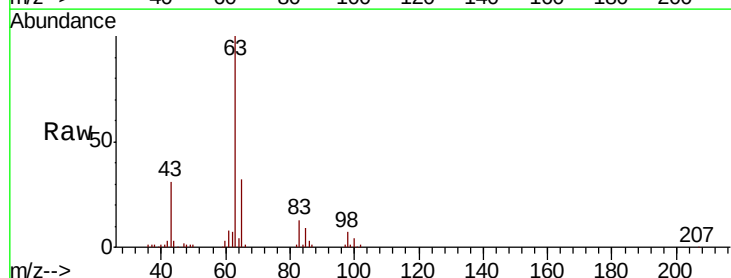
Manual Integrations
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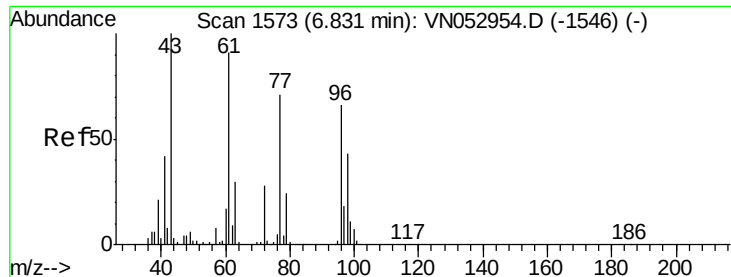
MMDadoda
 1/2/2019 9:49:27 AM



#24
 1,1-Dichloroethane
 Concen: 21.892 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Tgt Ion: 63 Resp: 332685
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.1 9.4
 100 4.4 2.0 5.8





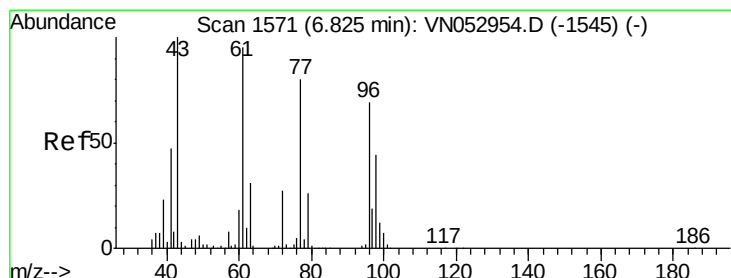
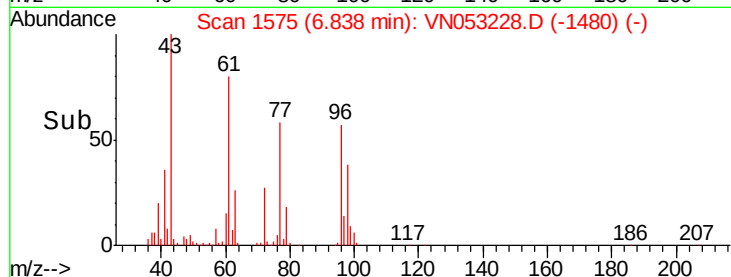
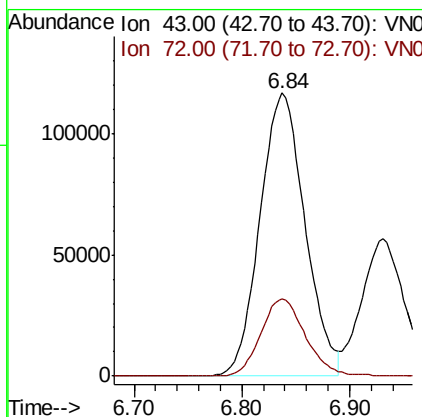
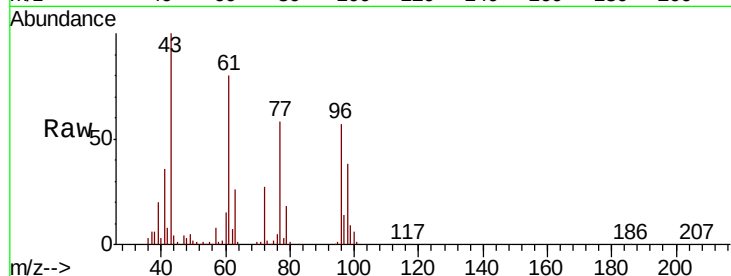
#25
2-Butanone
Concen: 123.991 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampled :
VN1228WBSD02

Tot Ion: 43 Resp: 336000
Ion Ratio Lower Upper
43 100
72 27.2 21.0 31.6

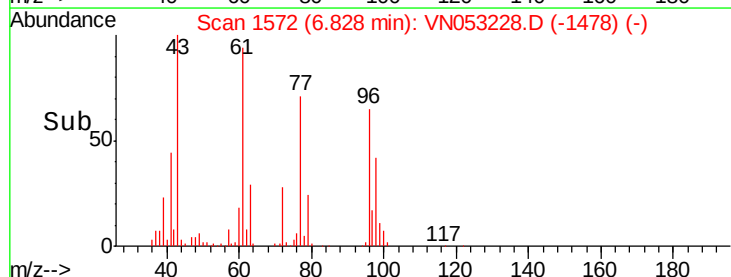
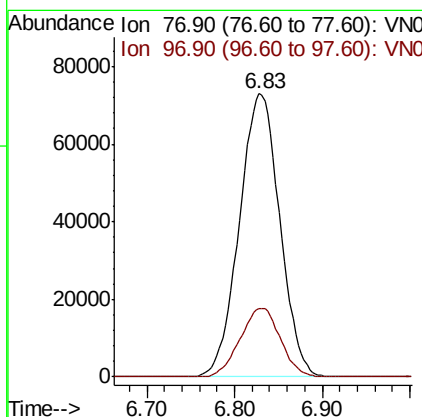
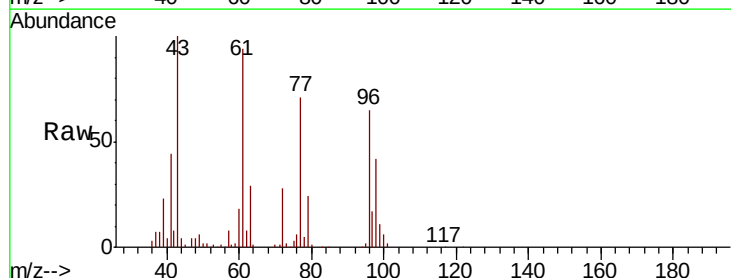
Manual Integrations
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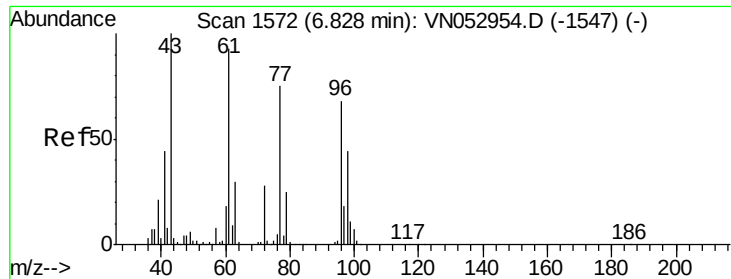
MMDadoda
1/2/2019 9:49:27 AM



#26
2,2-Dichloropropane
Concen: 20.135 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion: 77 Resp: 233576
Ion Ratio Lower Upper
77 100
97 24.2 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 21.384 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

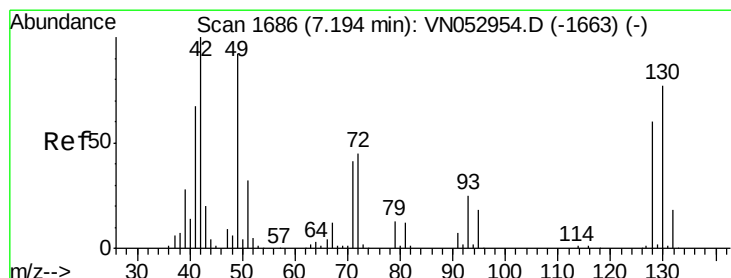
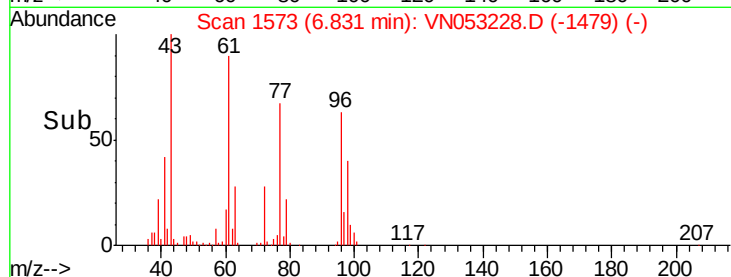
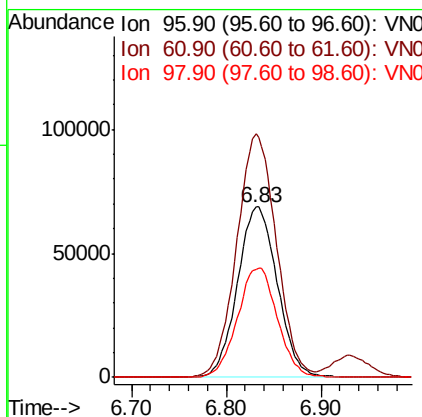
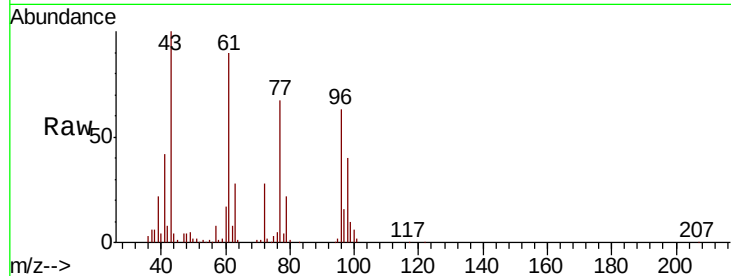
ClientSampleId :

VN1228WBSD02

Tot Ion:	96	Resp:	201190
Ion Ratio	Lower	Upper	
96	100		
61	142.2	0.0	284.2
98	64.5	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 23.402 ug/l

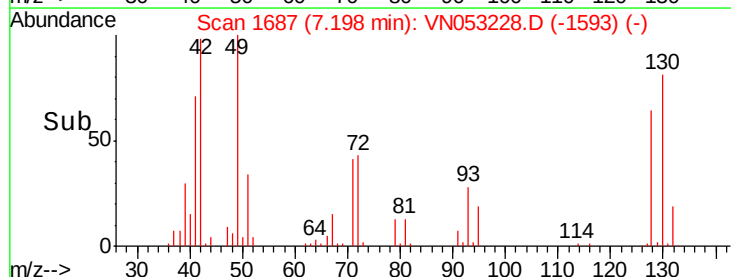
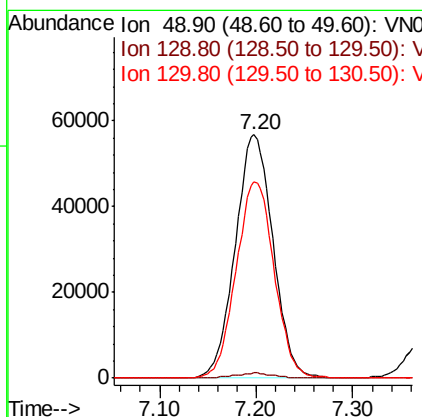
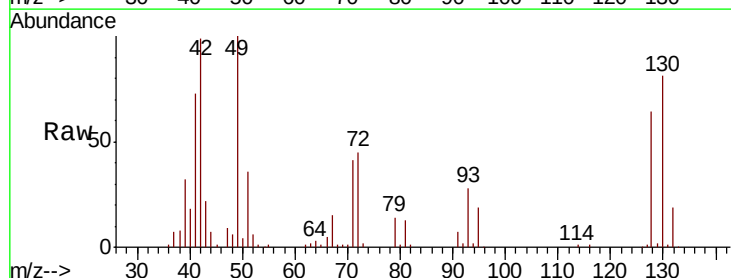
RT: 7.20 min Scan# 1687

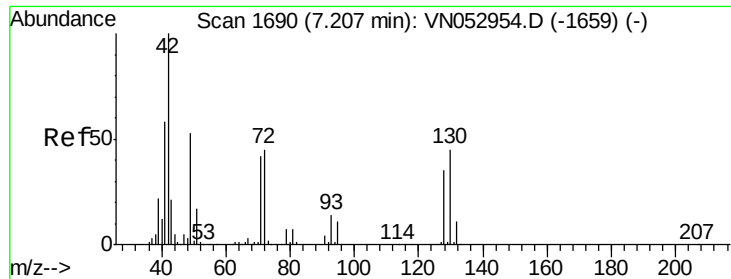
Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Tgt Ion:	49	Resp:	154099
Ion Ratio	Lower	Upper	
49	100		
129	2.0	0.0	4.0
130	81.3	63.3	94.9





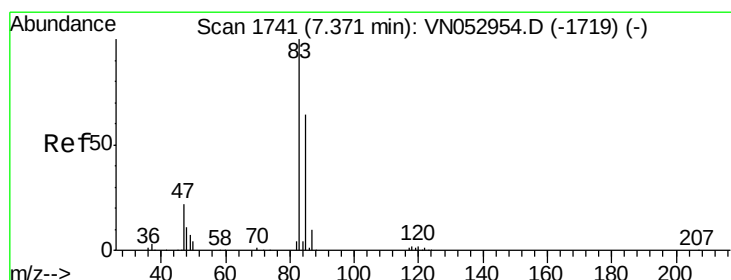
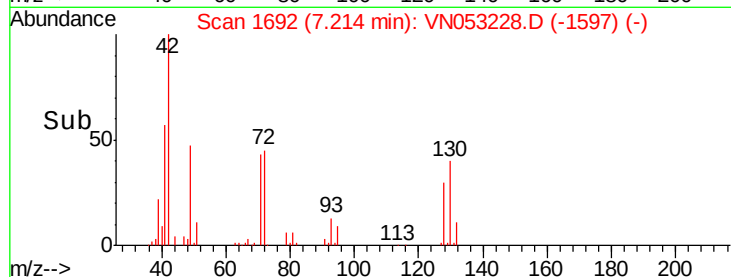
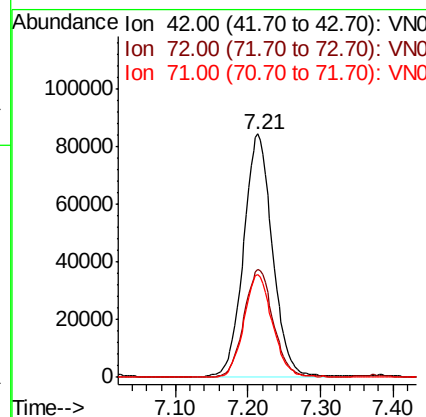
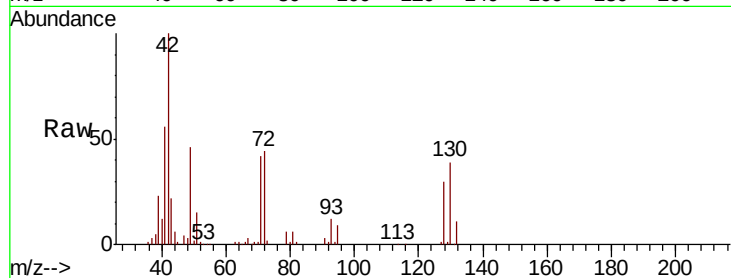
#29
Tetrahydrofuran
Concen: 116.249 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.5	34.7	52.1
71	41.4	32.3	48.5

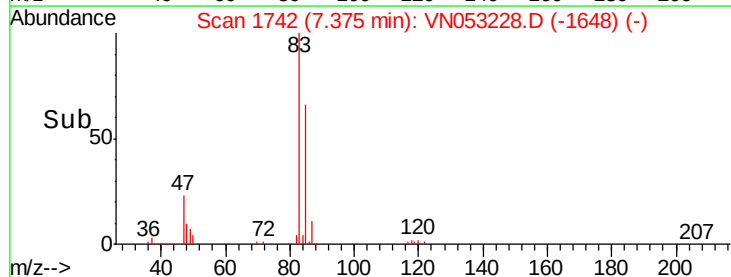
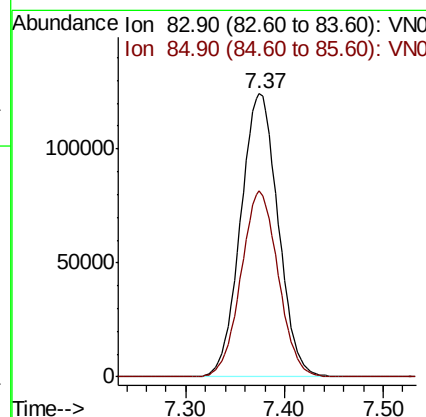
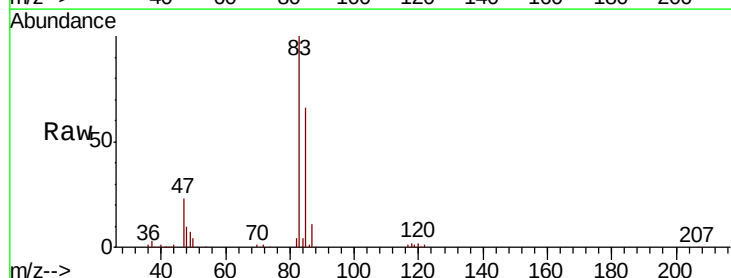
Manual Integrations
APPROVED

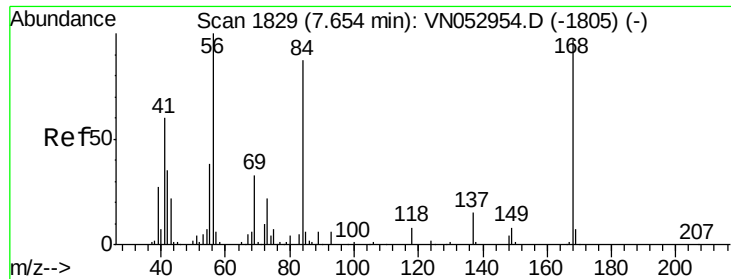
MMDadoda
1/2/2019 9:49:27 AM



#30
Chloroform
Concen: 21.889 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.1	78.1





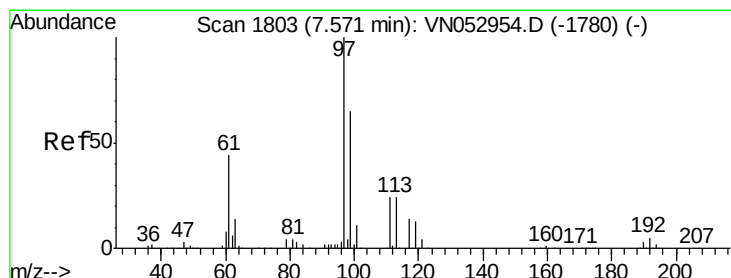
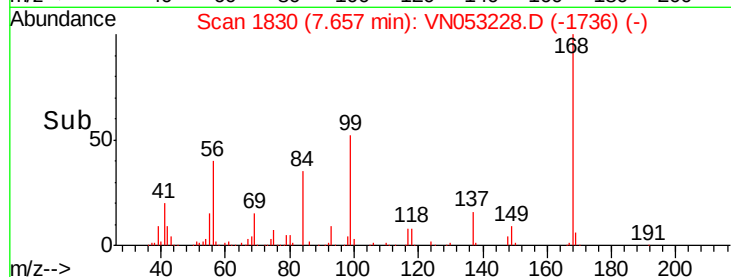
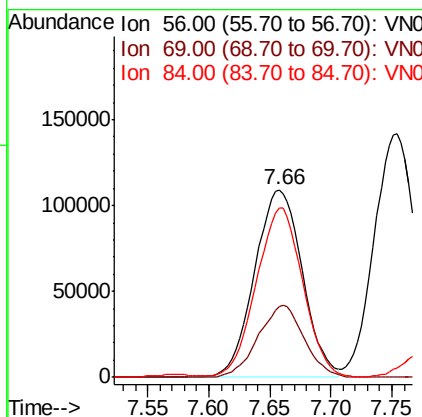
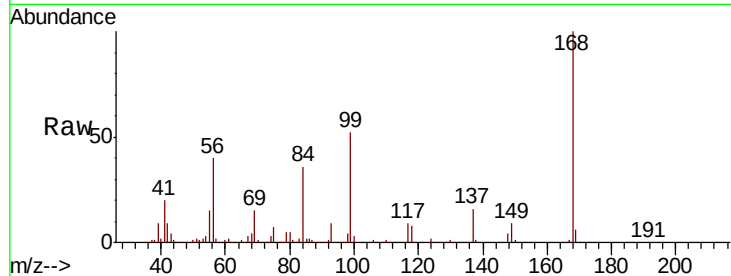
#31
Cyclohexane
Concen: 20.207 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
56	100	296928		
69	37.6		26.6	39.8
84	89.3		68.4	102.6

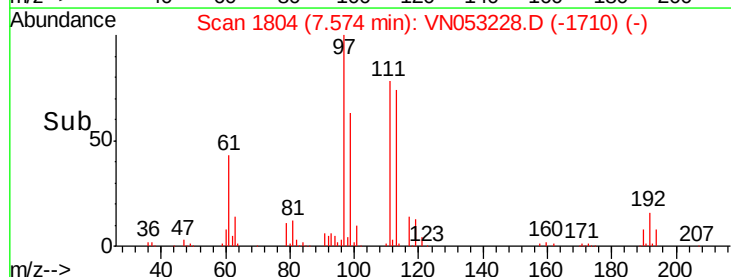
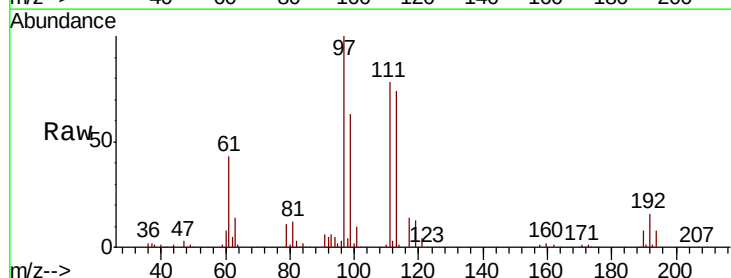
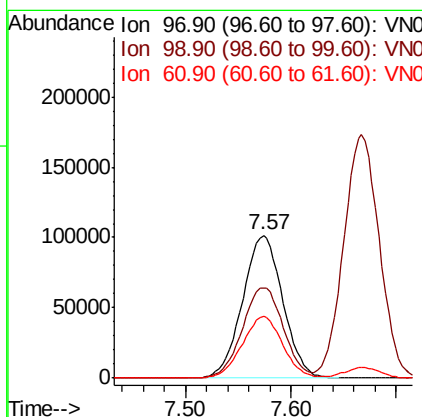
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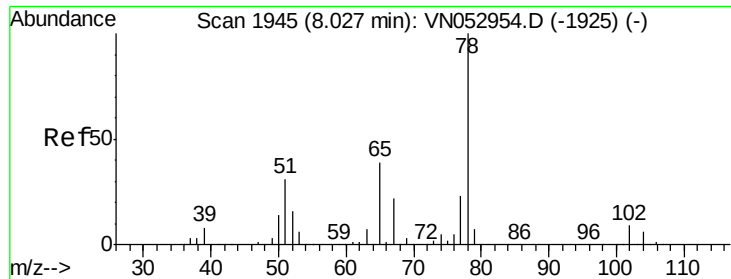
MMDadoda
1/2/2019 9:49:27 AM



#32
1,1,1-Trichloroethane
Concen: 21.190 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	269470		
99	64.6		51.1	76.7
61	43.5		35.0	52.6





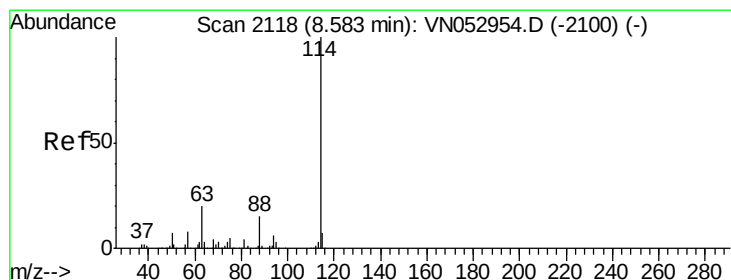
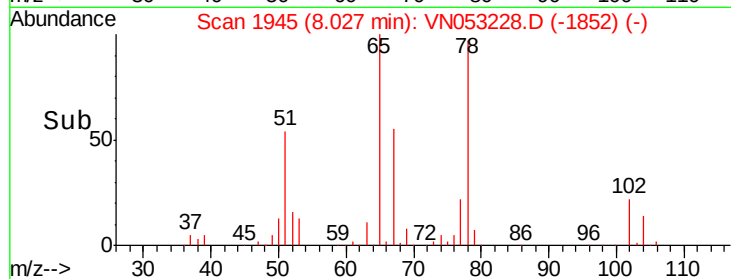
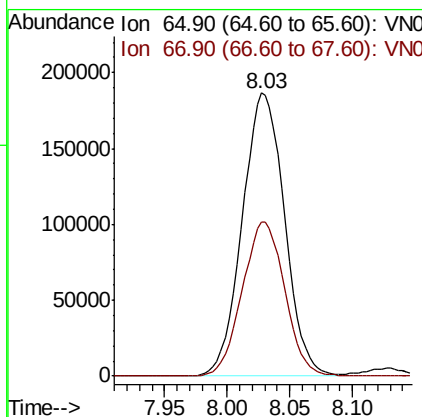
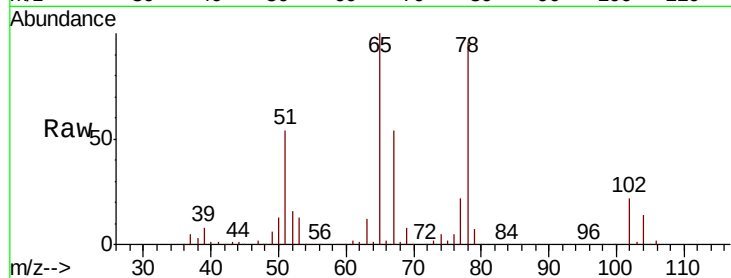
#33
 1,2-Dichloroethane-d4
 Concen: 21.190 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1228WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	436701		
67	54.9	0.0	110.4	

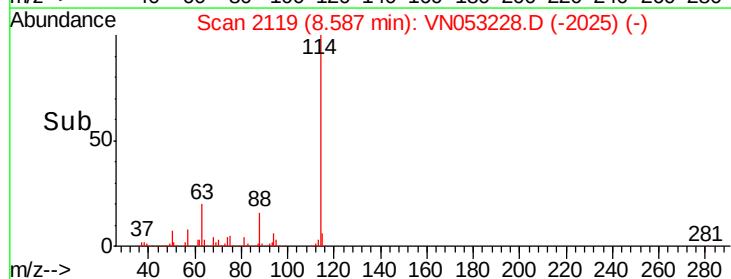
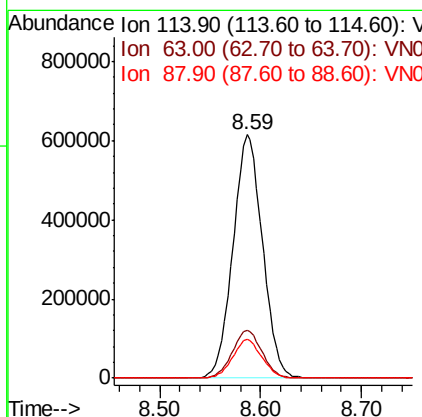
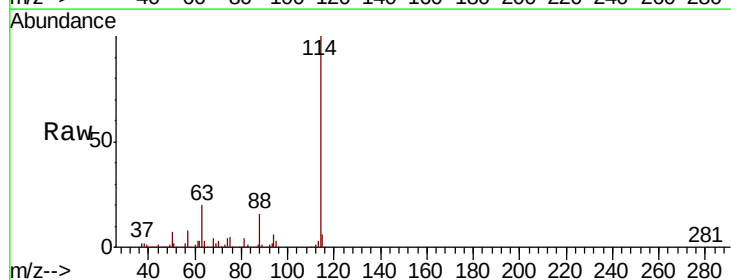
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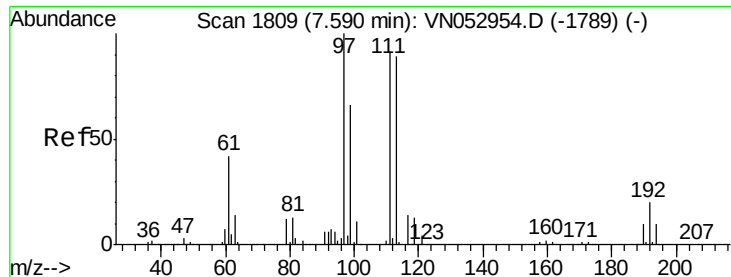
MMDadoda
 1/2/2019 9:49:27 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1248543		
63	19.8	0.0	39.8	
88	15.8	0.0	31.0	





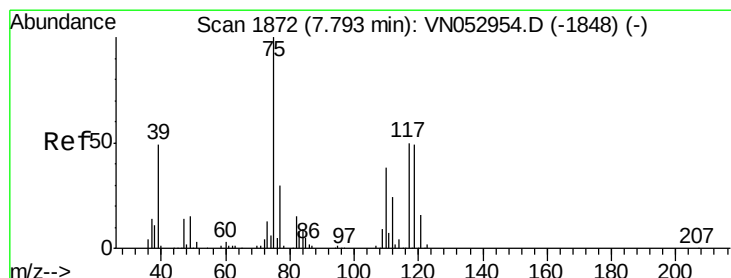
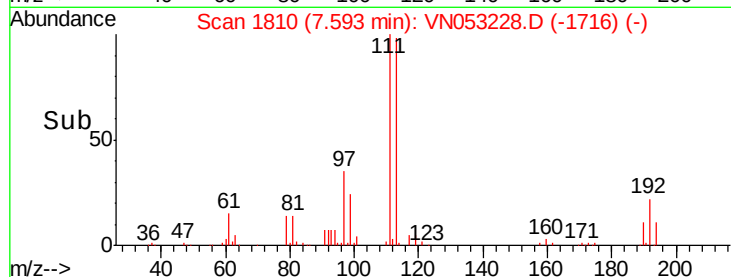
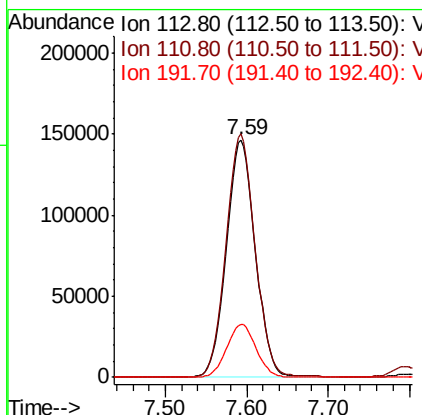
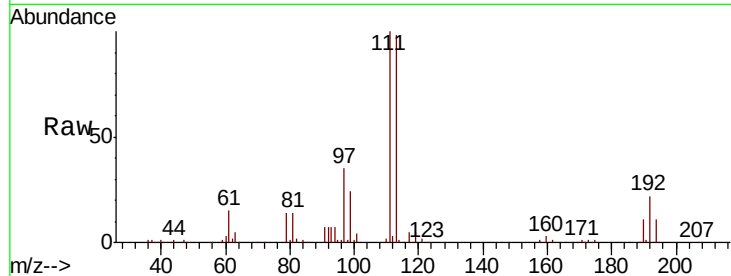
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	365254		
111	102.3	83.0	124.4	
192	22.6	17.5	26.3	

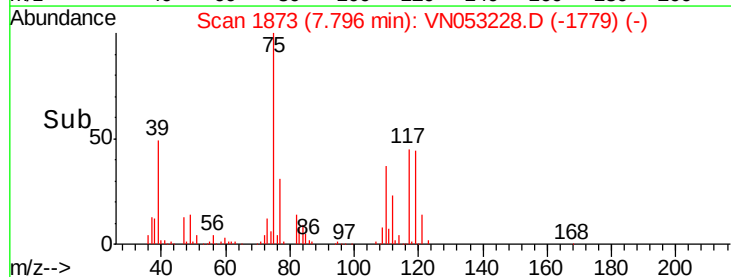
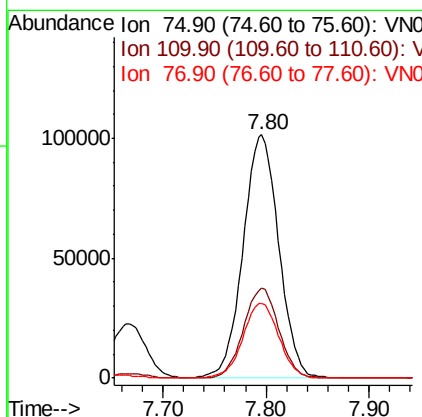
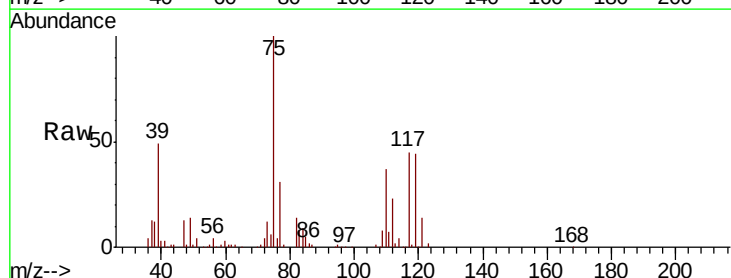
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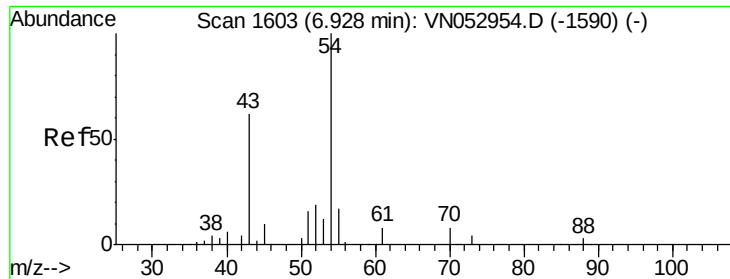
MMDadoda
1/2/2019 9:49:27 AM



#36
1,1-Dichloropropene
Concen: 20.189 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	241939		
110	36.8	18.2	54.6	
77	31.4	24.9	37.3	





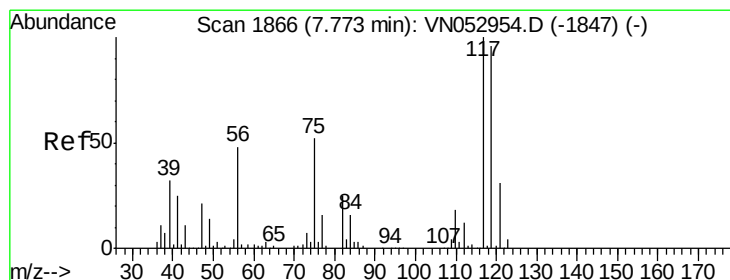
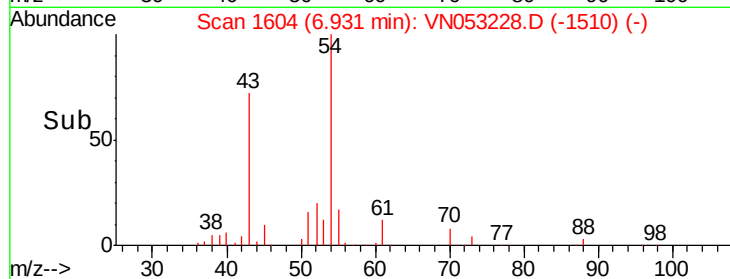
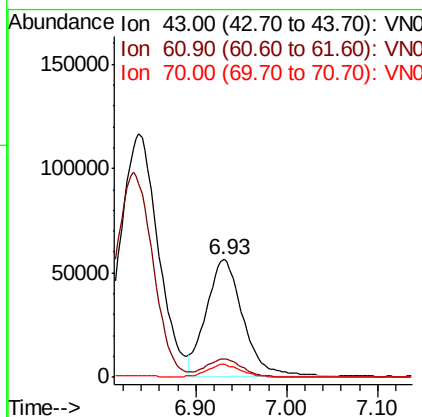
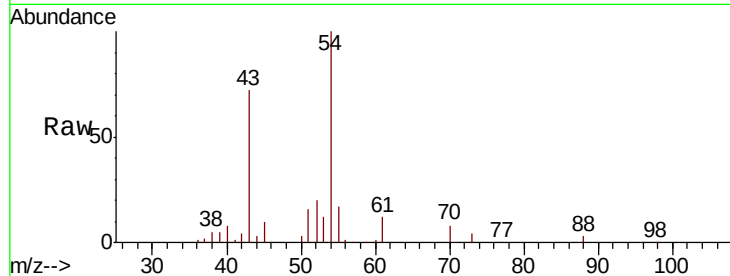
#37
Ethyl Acetate
Concen: 23.438 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	43	61	70
Ratio	100	15.0	10.6
Lower		11.8	8.4
Upper		17.6	12.6

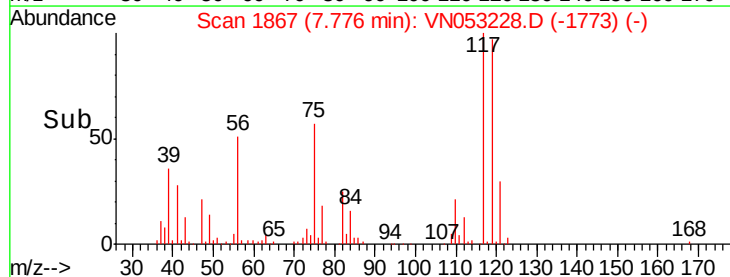
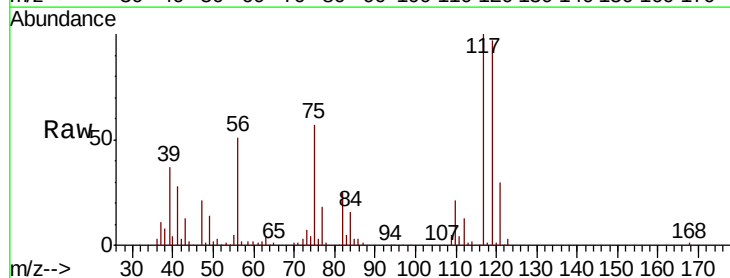
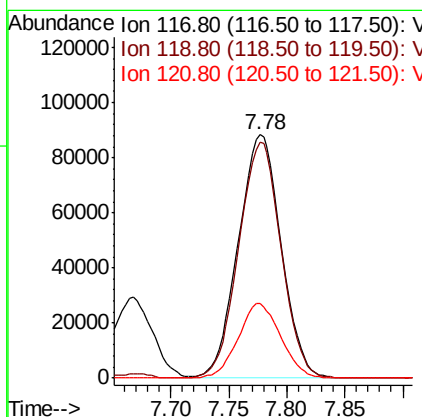
Manual Integrations
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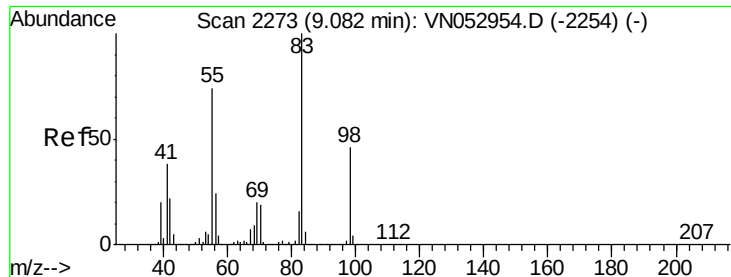
MMDadoda
1/2/2019 9:49:27 AM



#38
Carbon Tetrachloride
Concen: 20.594 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	117	119	121
Ratio	100	96.8	30.5
Lower		77.1	24.9
Upper		115.7	37.3





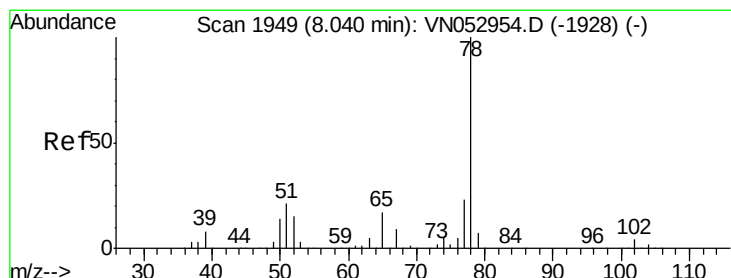
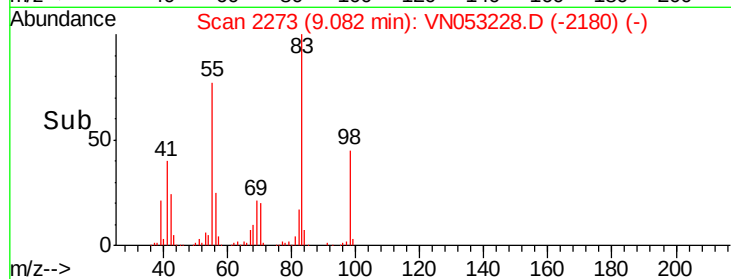
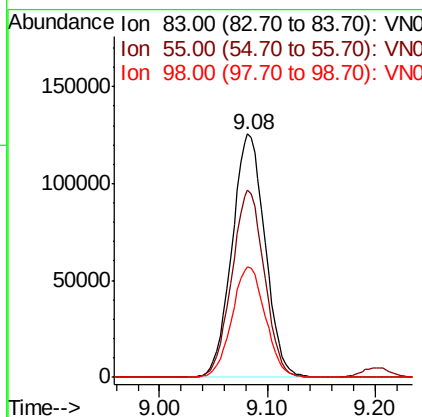
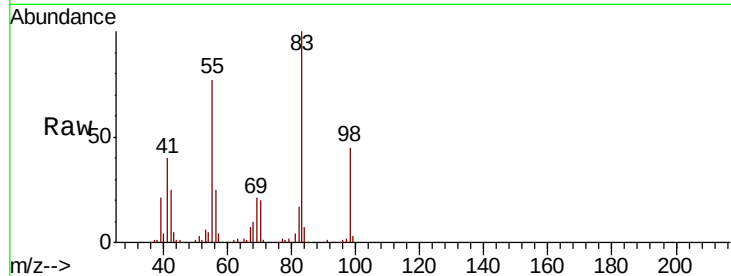
#39
Methylvlcyclohexane
Concen: 18.387 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.8	61.3	91.9
98	45.2	37.0	55.4

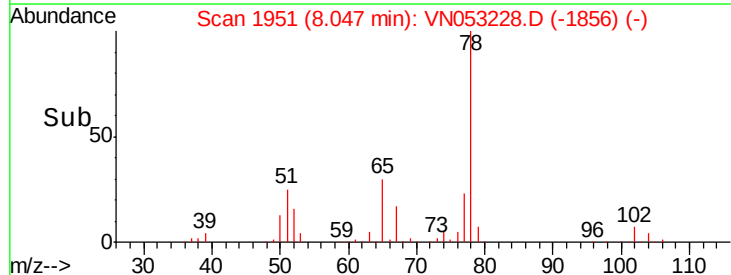
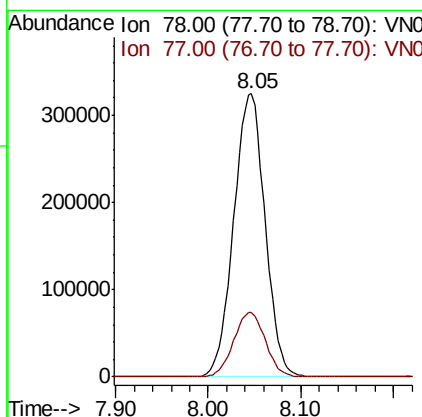
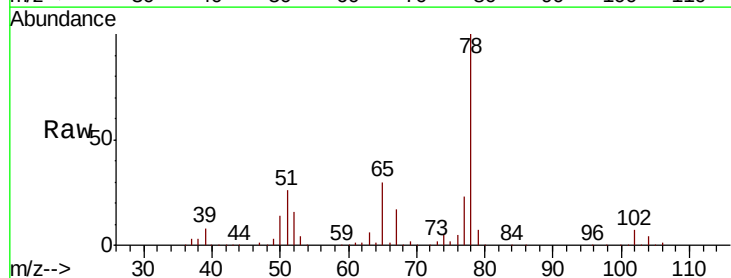
Manual Integrations
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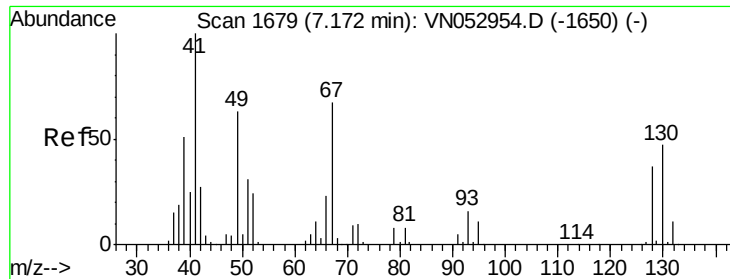
MMDadoda
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#40
Benzene
Concen: 21.358 ug/l
RT: 8.05 min Scan# 1951
Delta R.T. 0.01 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.5	27.7





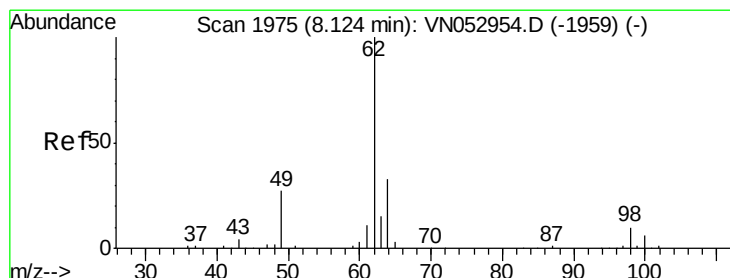
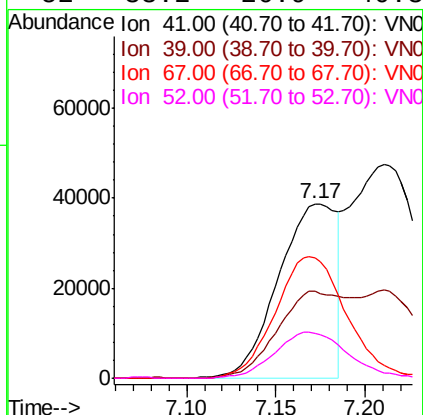
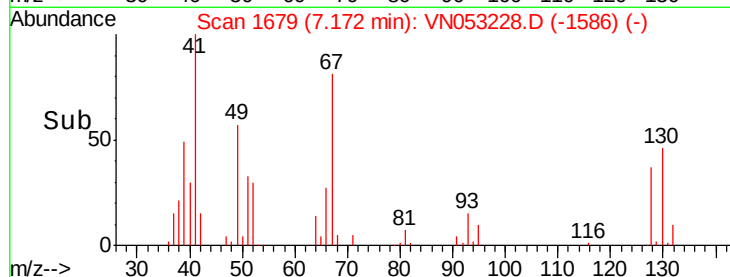
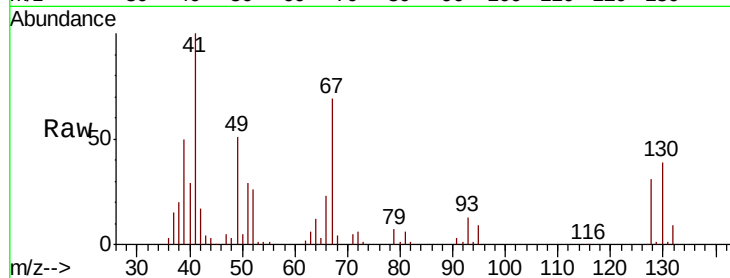
#41
Methacrylonitrile
Concen: 22.762 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	58.1	48.0	72.0	
67	85.6	70.3	105.5	
52	33.2	26.9	40.3	

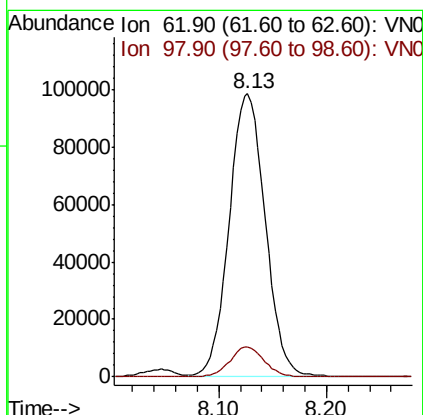
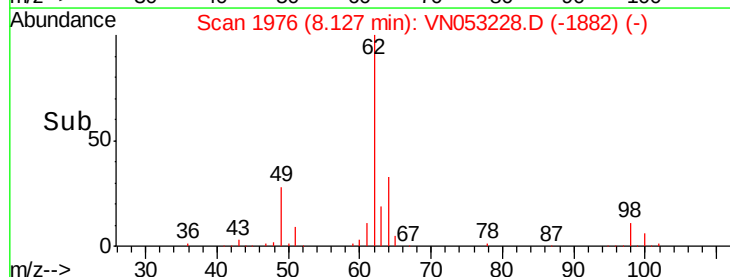
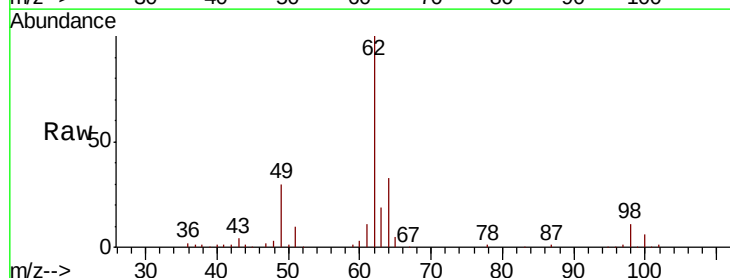
Manual Integrations
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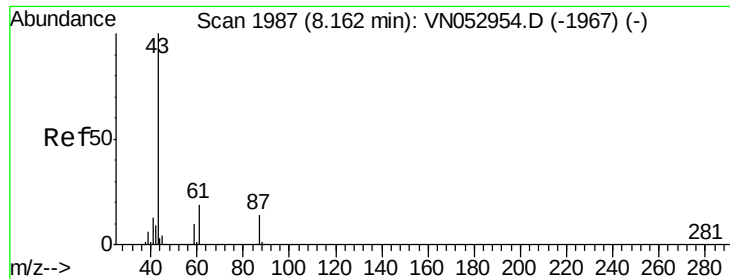
MMDadoda
1/2/2019 9:49:27 AM



#42
1,2-Dichloroethane
Concen: 21.646 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.1	0.0	19.0	





#43

Isopropyl Acetate

Concen: 21.810 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

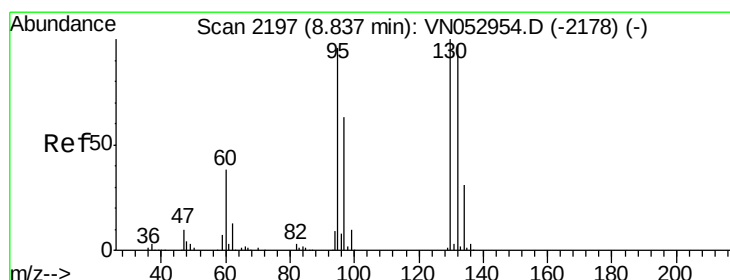
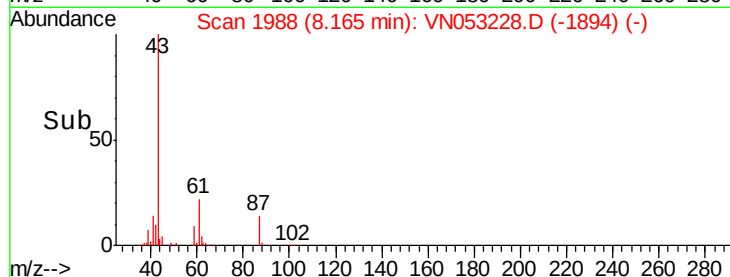
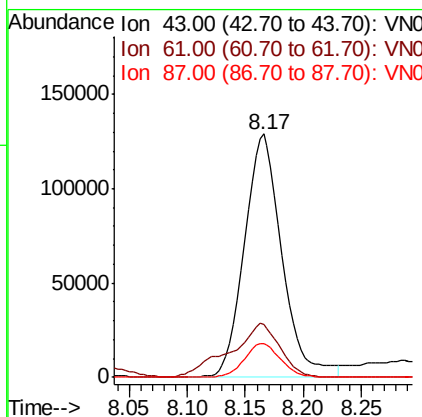
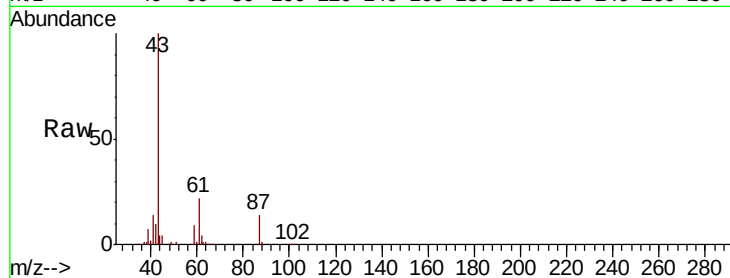
ClientSampleId :

VN1228WBSD02

Tot Ion:	43	Resp:	289986
Ion	Ratio	Lower	Upper
43	100		
61	29.2	22.9	34.3
87	13.4	10.6	15.8

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#44

Trichloroethene

Concen: 19.588 ug/l

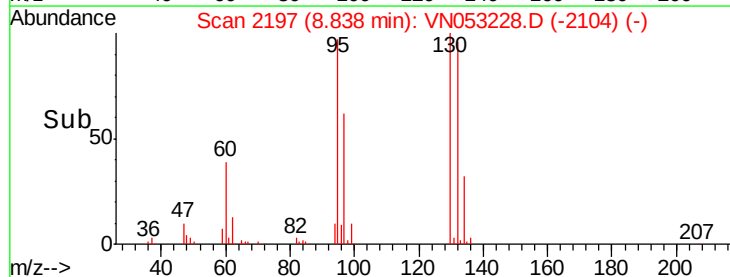
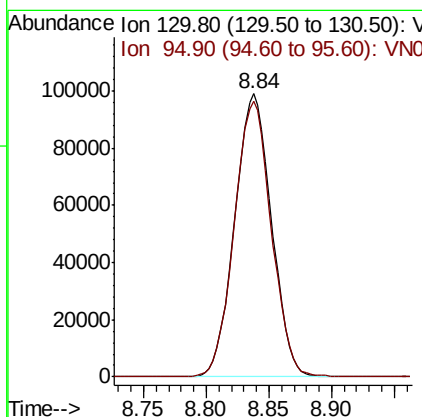
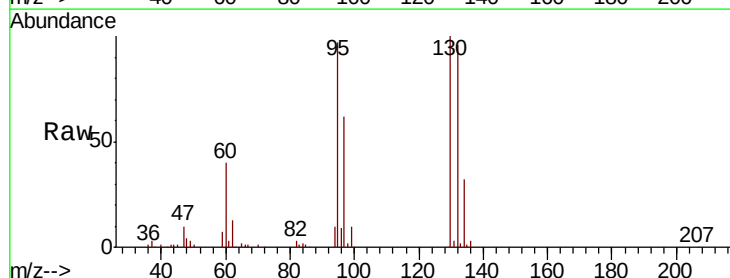
RT: 8.84 min Scan# 2197

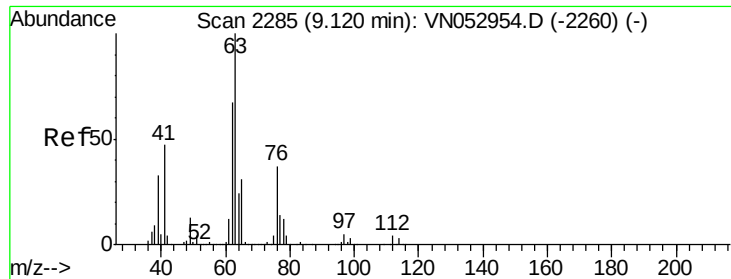
Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Tgt Ion:	130	Resp:	201954
Ion	Ratio	Lower	Upper
130	100		
95	97.2	0.0	197.8





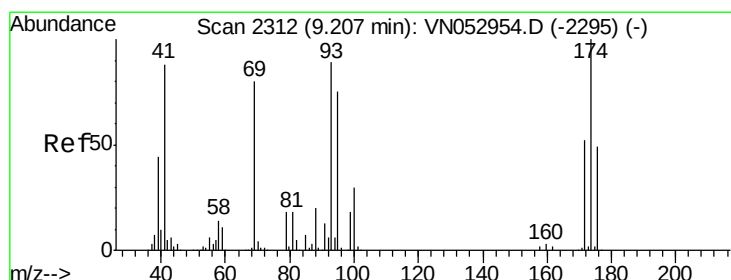
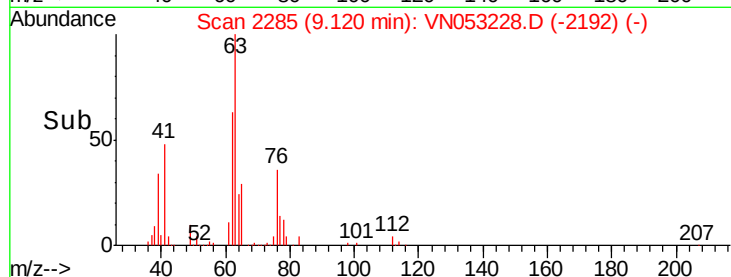
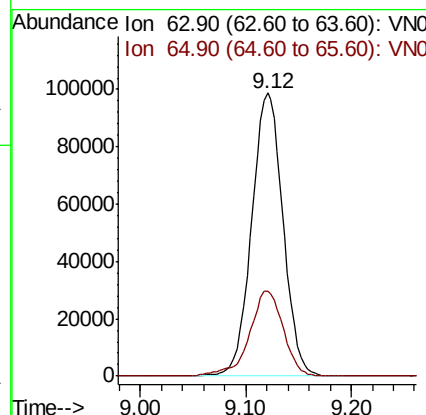
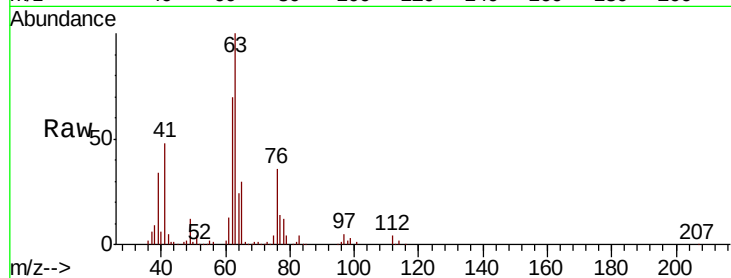
#45
 1,2-Dichloropropane
 Concen: 21.977 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1228WBSD02

Tot Ion: 63 Resp: 204048
 Ion Ratio Lower Upper
 63 100
 65 30.2 24.6 37.0

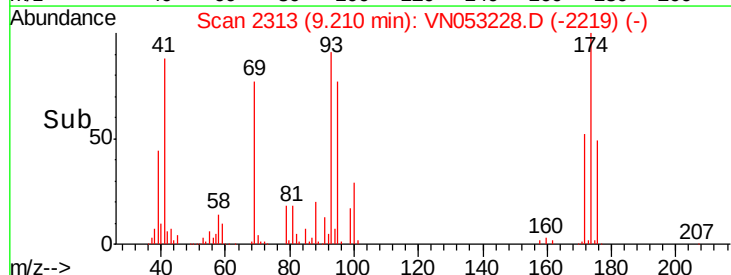
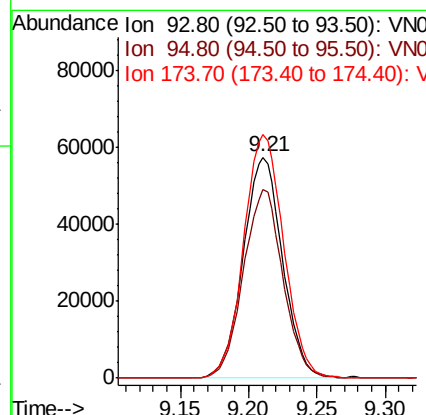
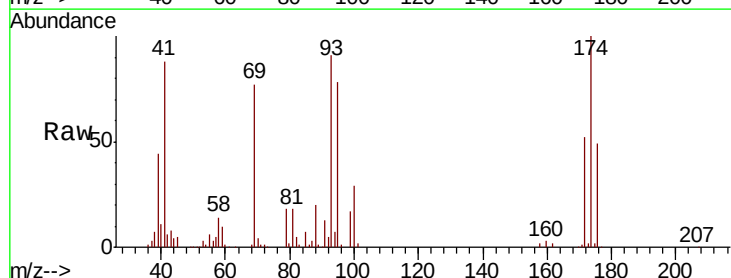
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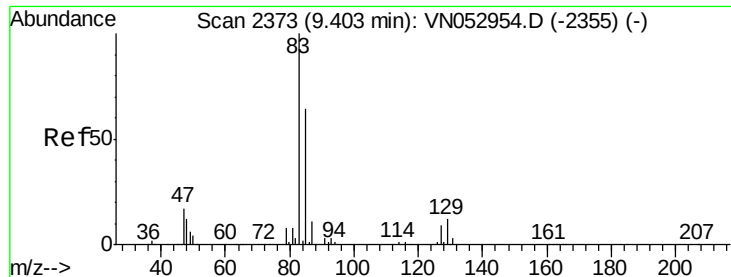
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#46
 Dibromomethane
 Concen: 21.351 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Tgt Ion: 93 Resp: 115482
 Ion Ratio Lower Upper
 93 100
 95 85.7 67.8 101.6
 174 112.1 89.0 133.4





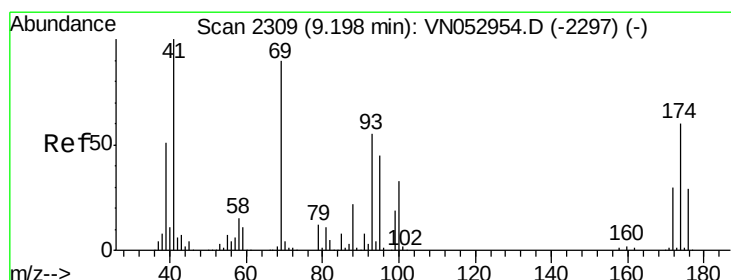
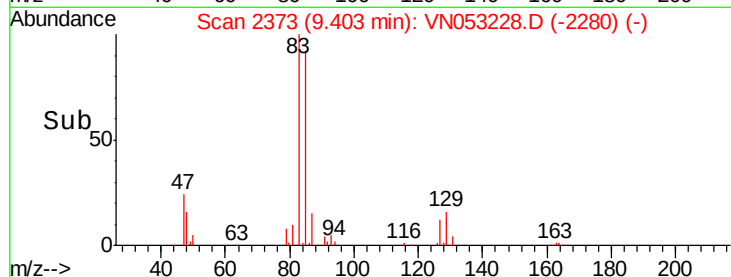
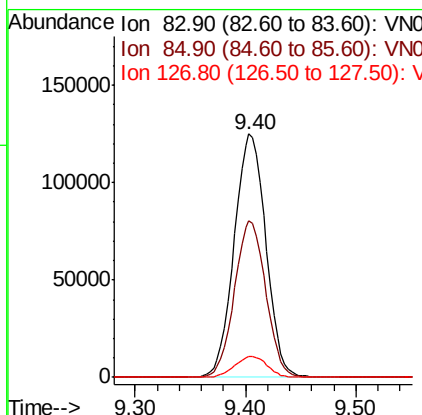
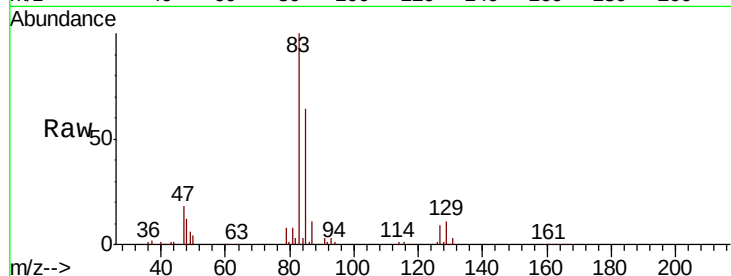
#47
Bromodichloromethane
Concen: 21.638 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
83	100	248772		
85	64.4	51.6	77.4	
127	8.7	7.1	10.7	

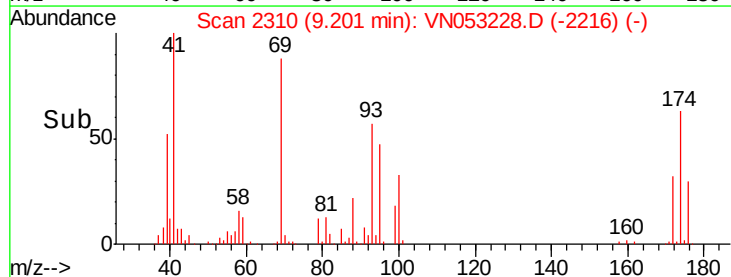
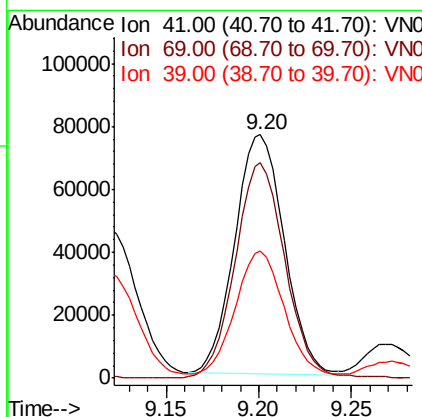
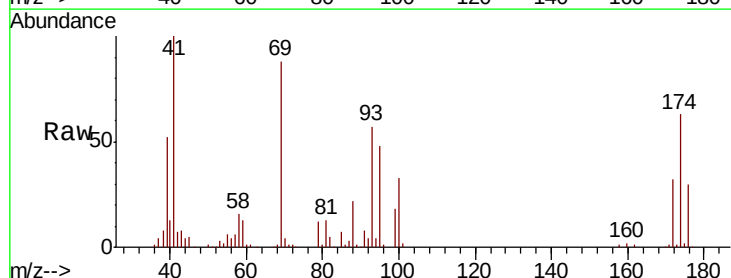
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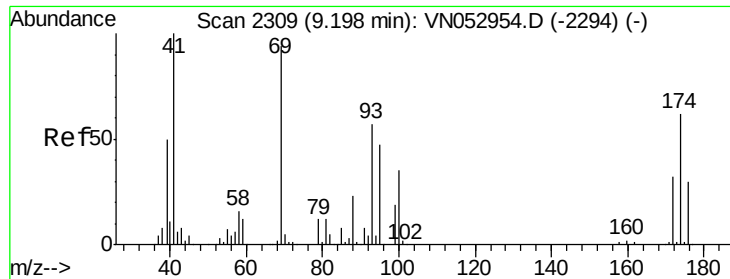
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#48
Methyl methacrylate
Concen: 21.814 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	141613		
69	91.0	72.2	108.2	
39	53.9	41.9	62.9	





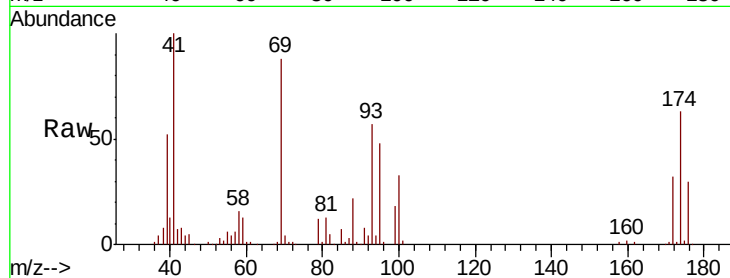
#49
1,4-Dioxane
Concen: 428.470 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	88	Resp	35185
Ion	Ratio	Lower	Upper
88	100		
43	35.7	26.6	40.0
58	73.4	58.4	87.6

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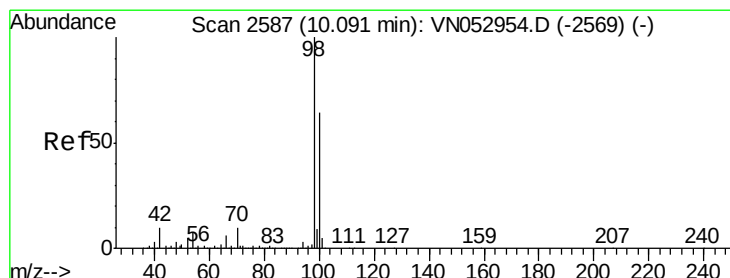
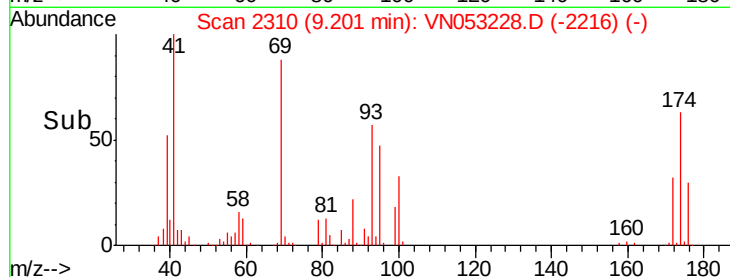
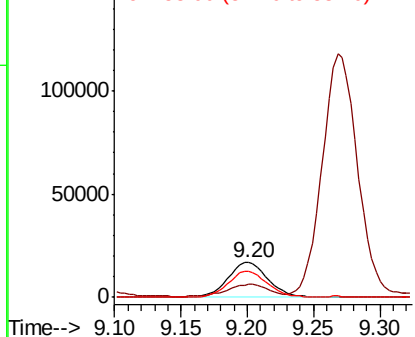


Abundance

Ion 88.00 (87.70 to 88.70): VN053228.D (-2216) (-)

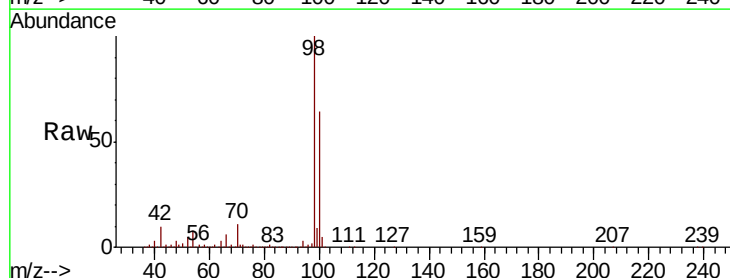
Ion 43.00 (42.70 to 43.70): VN053228.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VN053228.D (-2216) (-)



#50
Toluene-d8
Concen: 428.470 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

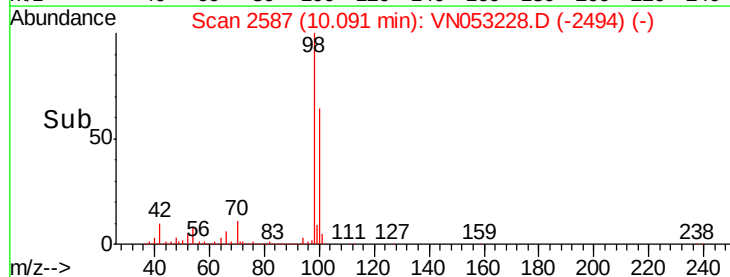
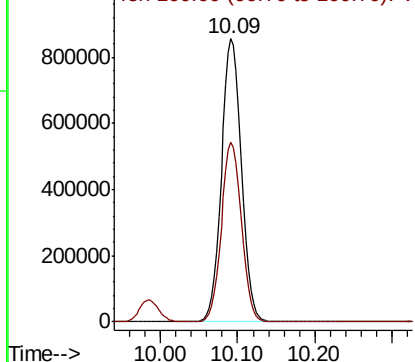
Tgt Ion	98	Resp	1538216
Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.6	77.4

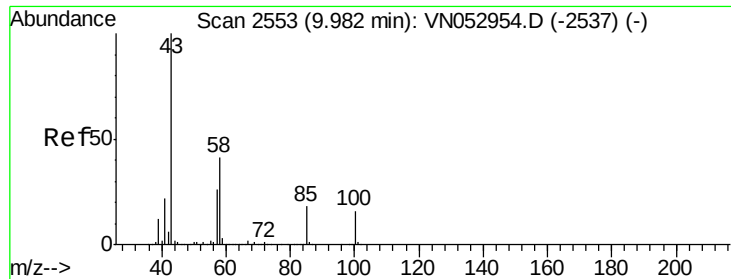


Abundance

Ion 98.00 (97.70 to 98.70): VN053228.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN053228.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 120.416 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN1228WBSD02

Tot Ion: 43 Resp: 780140

Ion Ratio Lower Upper

43 100

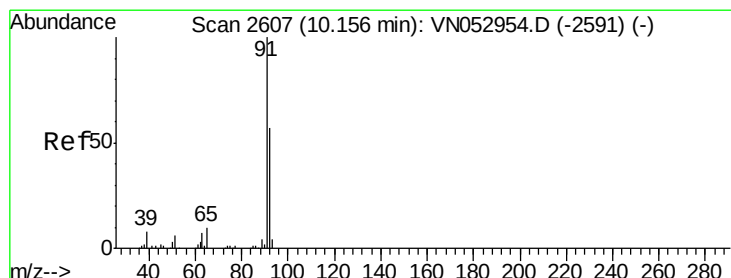
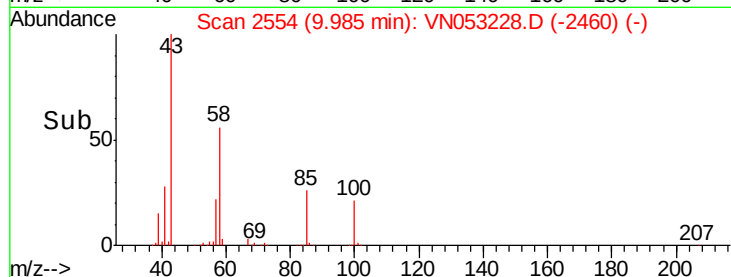
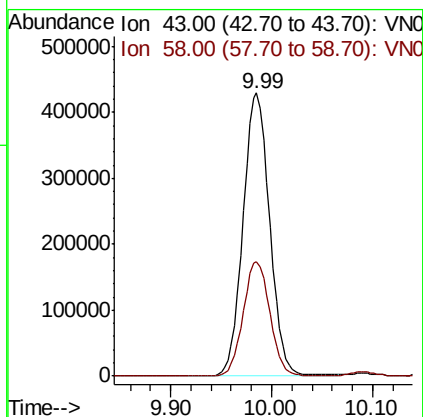
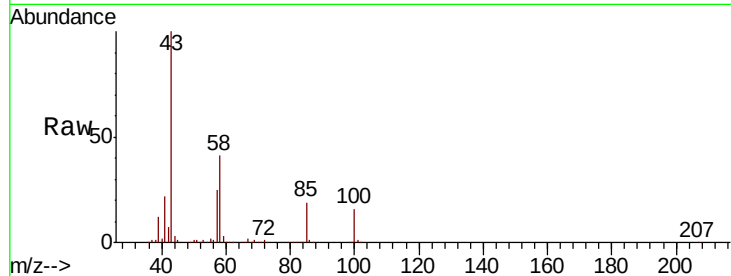
58 40.6 32.2 48.4

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#52

Toluene

Concen: 20.868 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053228.D

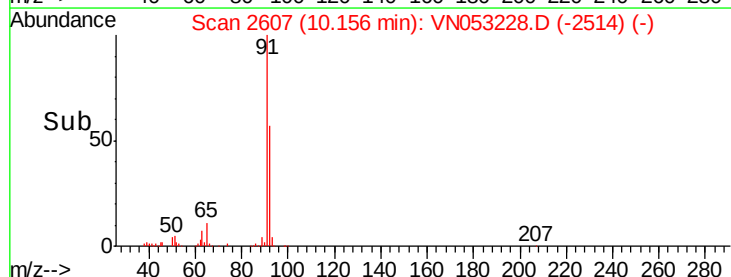
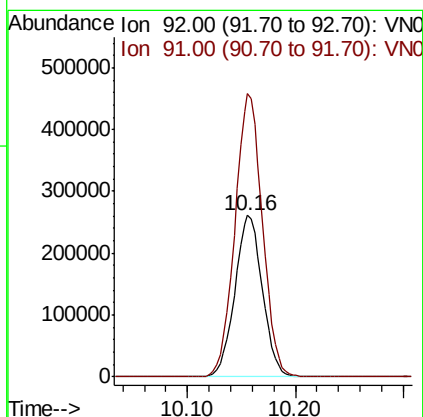
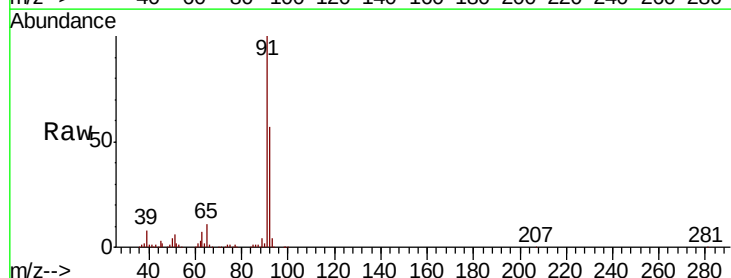
Acq: 28 Dec 2018 16:43

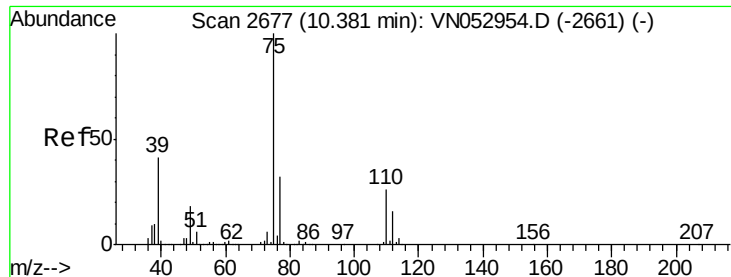
Tgt Ion: 92 Resp: 461055

Ion Ratio Lower Upper

92 100

91 175.9 139.8 209.6





#53

t-1,3-Dichloropropene

Concen: 20.435 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampled :

VN1228WBSD02

Tot Ion: 75 Resp: 247050

Ion Ratio Lower Upper

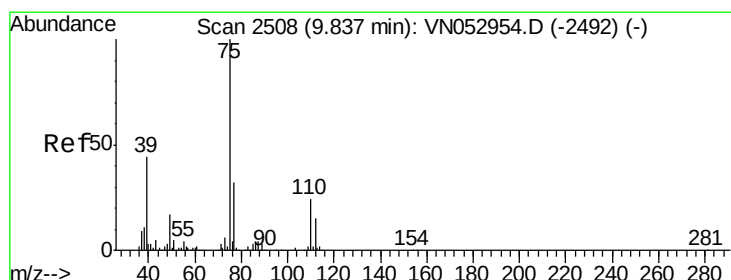
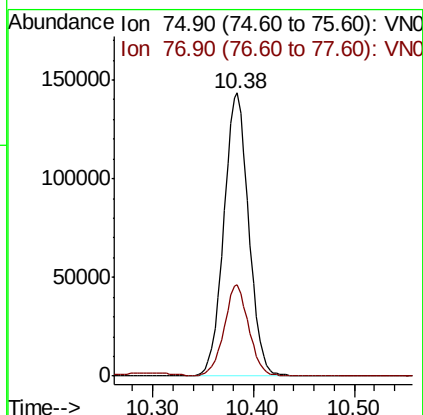
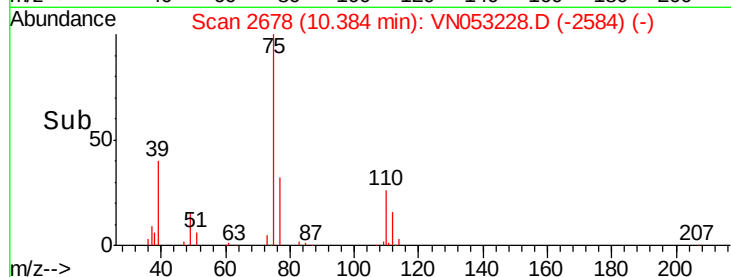
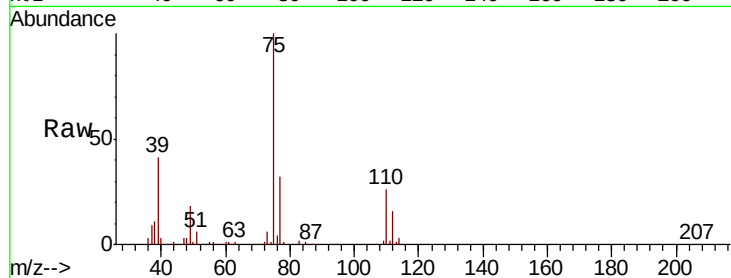
75 100

77 32.1 25.6 38.4

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#54

cis-1,3-Dichloropropene

Concen: 20.884 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

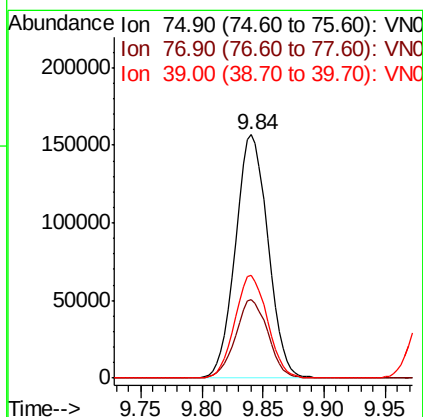
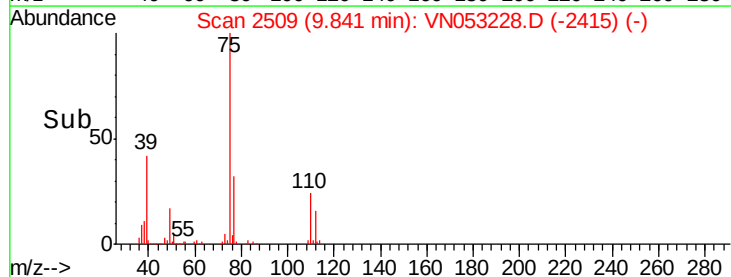
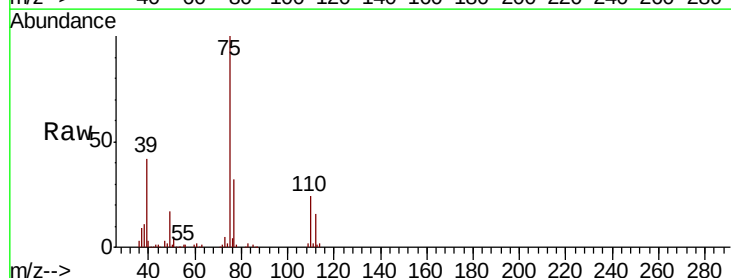
Tgt Ion: 75 Resp: 289806

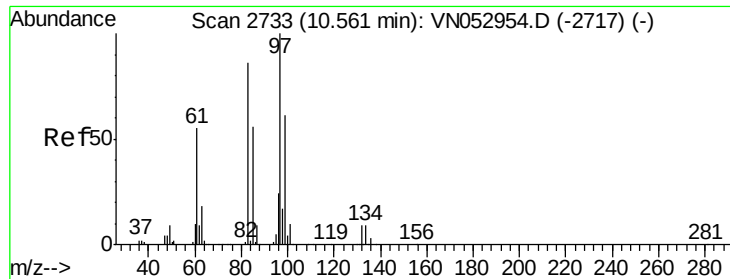
Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.8

39 42.1 34.8 52.2





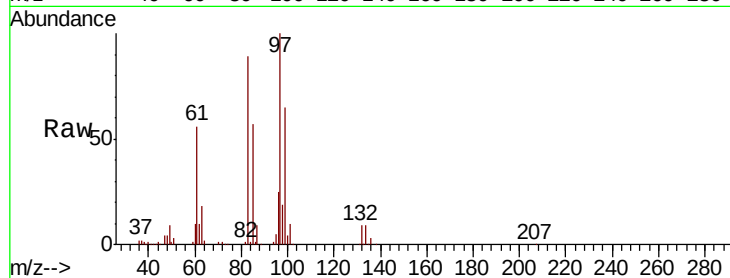
#55
 1,1,2-Trichloroethane
 Concen: 22.489 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1228WBSD02

Tot Ion:	97	Resp:	173341
Ion	Ratio	Lower	Upper
97	100		
83	88.5	70.9	106.3
85	56.5	45.4	68.2
99	64.6	50.4	75.6

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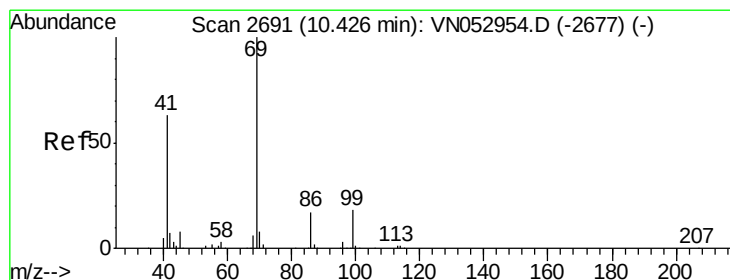
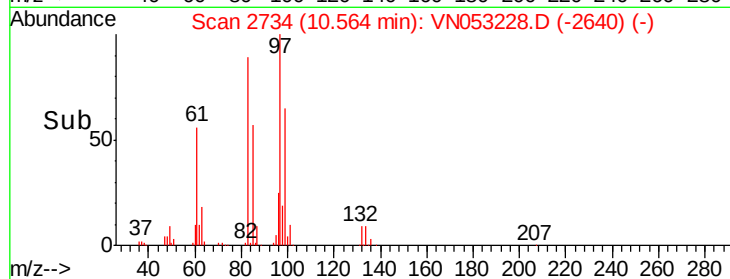
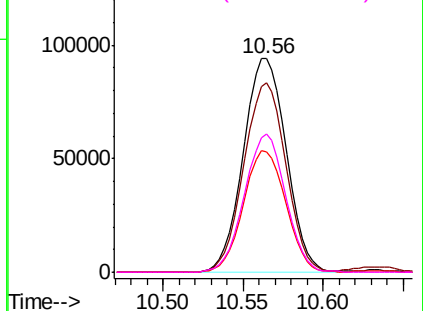
Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

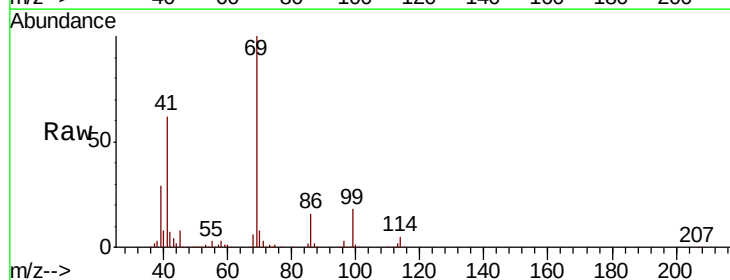
Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO



#56
 Ethyl methacrylate
 Concen: 22.199 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Tgt Ion:	69	Resp:	226476
Ion	Ratio	Lower	Upper
69	100		
41	60.9	51.7	77.5
39	29.3	24.6	37.0

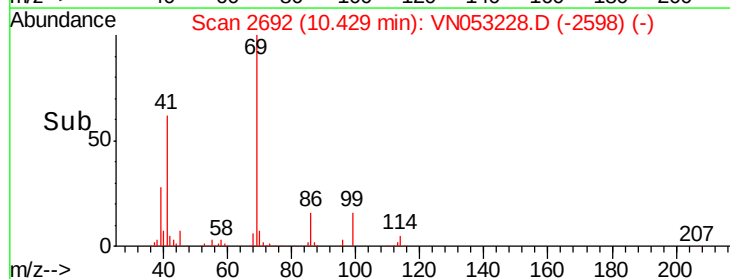
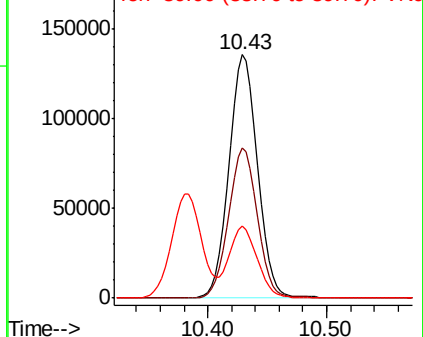


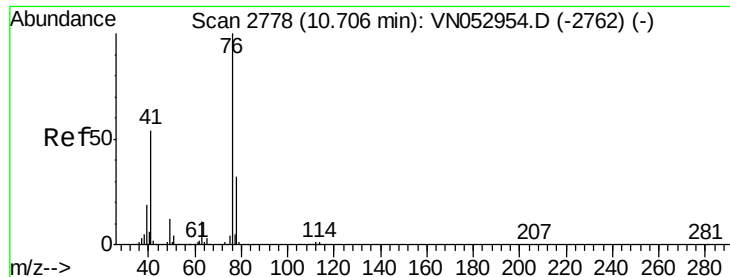
Abundance

Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





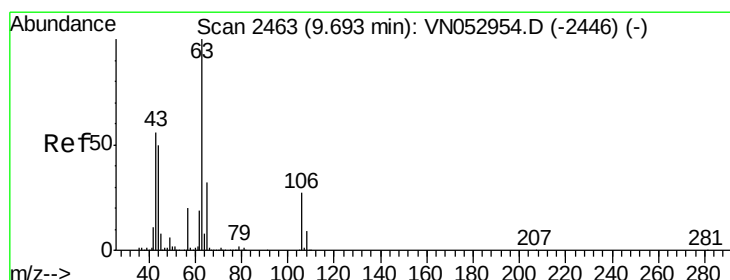
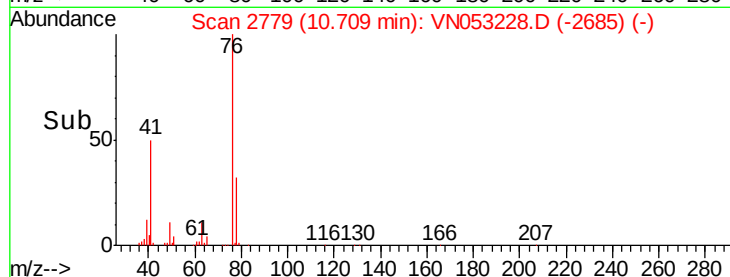
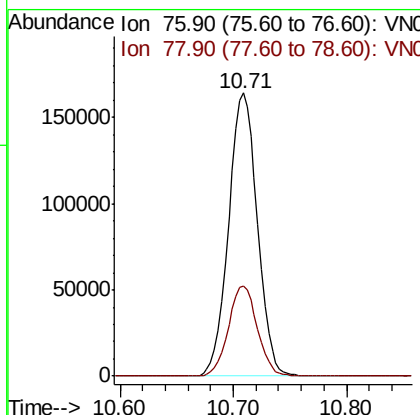
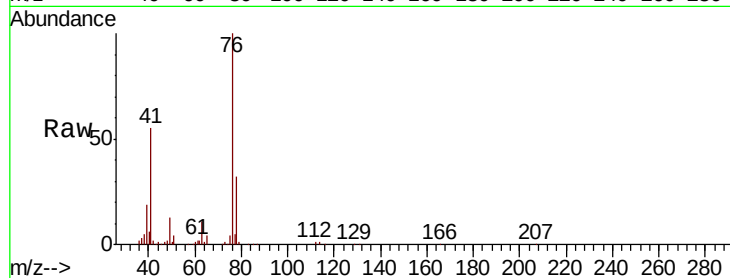
#57
 1,3-Dichloropropane
 Concen: 21.946 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1228WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8

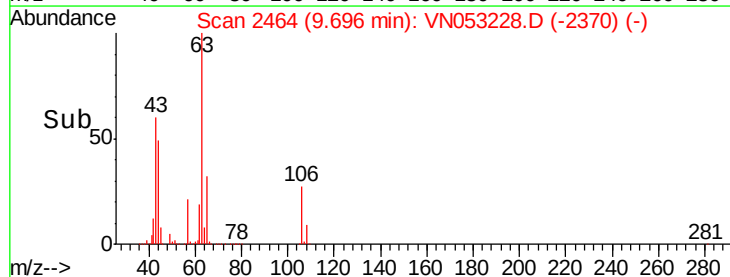
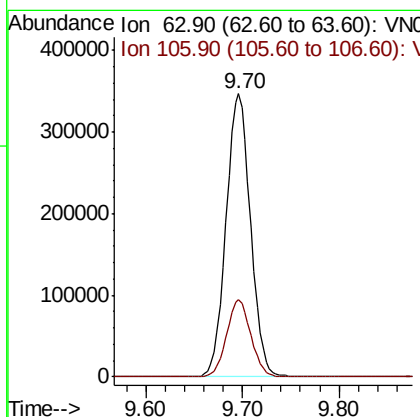
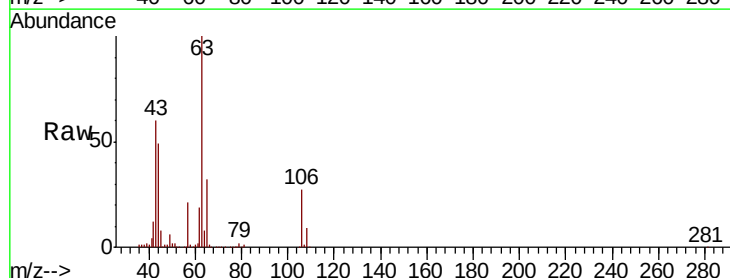
Manual Integrations
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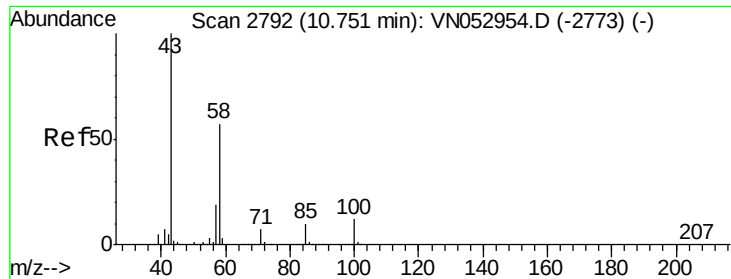
MMDadoda
 1/2/2019 9:49:27 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 108.493 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.0	31.6





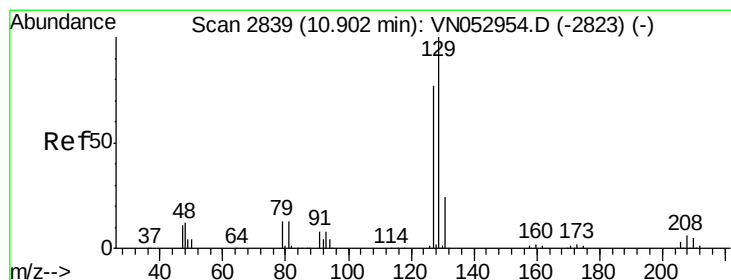
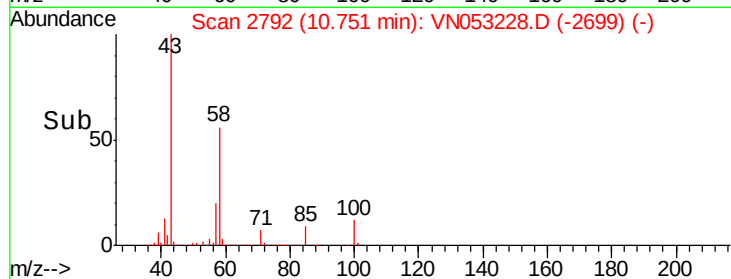
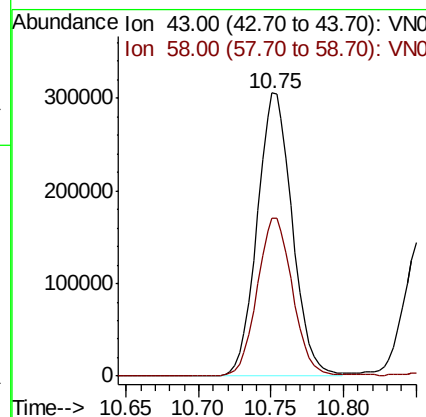
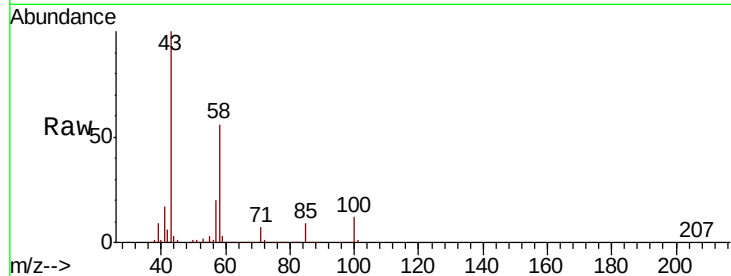
#59
2-Hexanone
Concen: 117.460 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	43	Resp	514873
Ion Ratio	100	Lower	Upper
43	100		
58	56.8	28.1	84.3

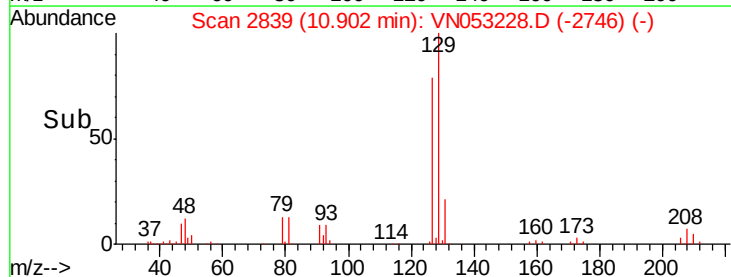
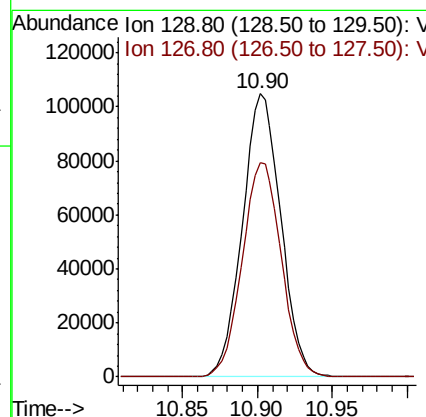
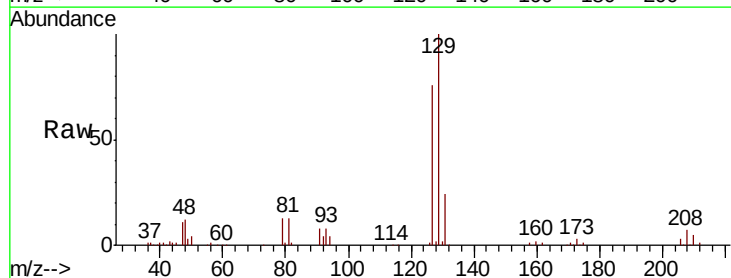
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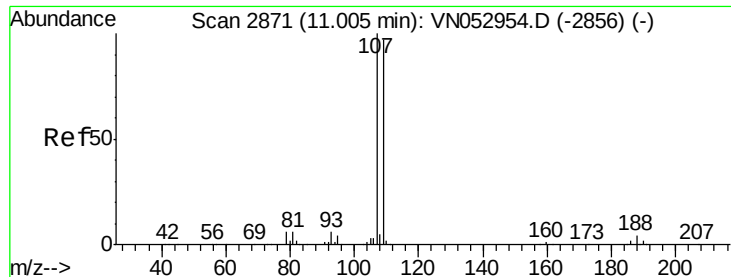
MMDadoda
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#60
Dibromochloromethane
Concen: 21.232 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	129	Resp	187336
Ion Ratio	100	Lower	Upper
129	100		
127	76.9	38.6	116.0





#61

1,2-Dibromoethane

Concen: 21.479 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampled :

VN1228WBSD02

Tot Ion: 107 Resp: 168140

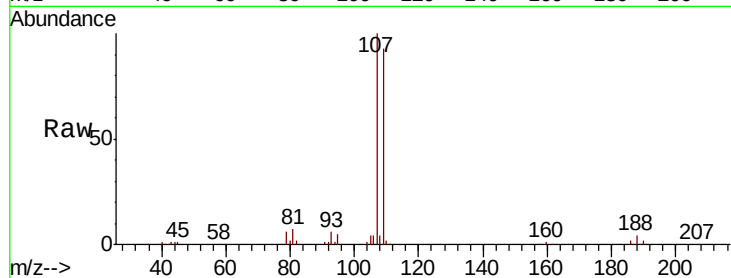
Ion Ratio Lower Upper

107 100

109 94.0 75.4 113.0

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

100000

80000

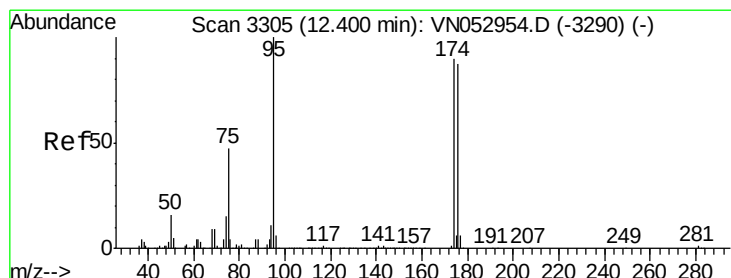
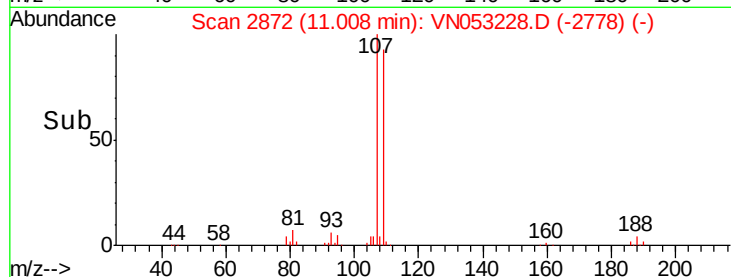
60000

40000

20000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 21.479 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

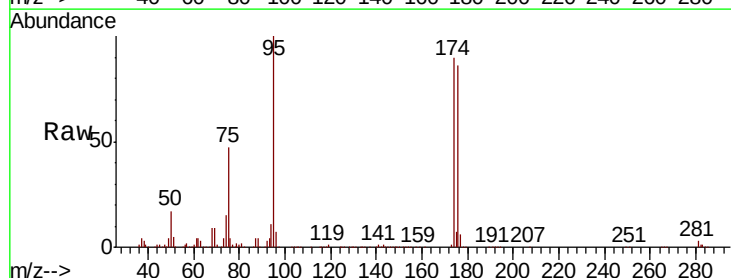
Tgt Ion: 95 Resp: 536303

Ion Ratio Lower Upper

95 100

174 89.6 0.0 178.8

176 86.7 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

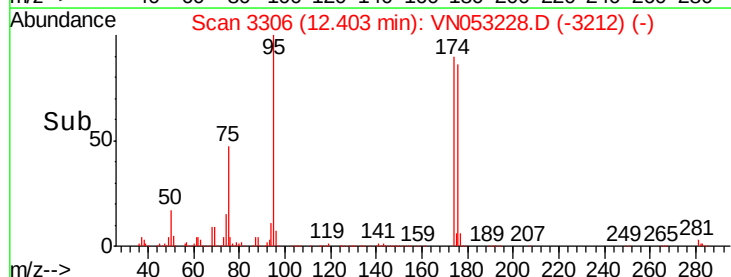
300000

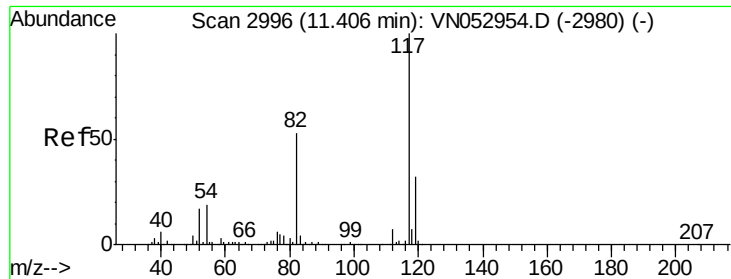
200000

100000

0

Time--> 12.35 12.40 12.45 12.50





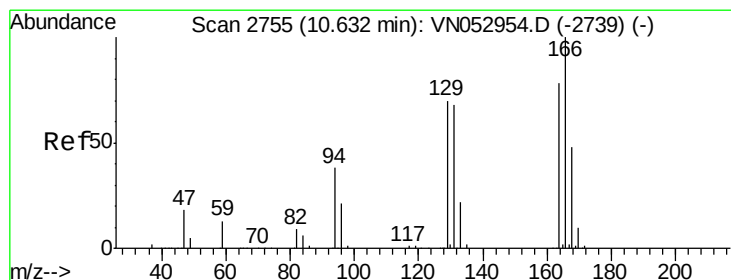
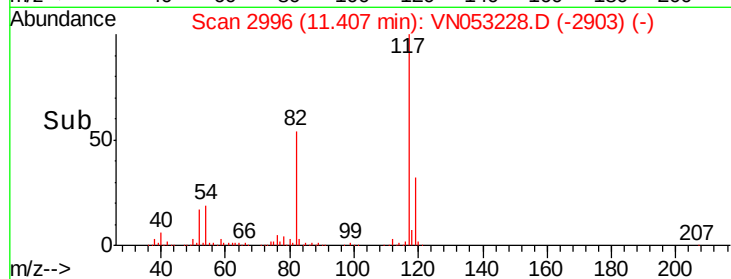
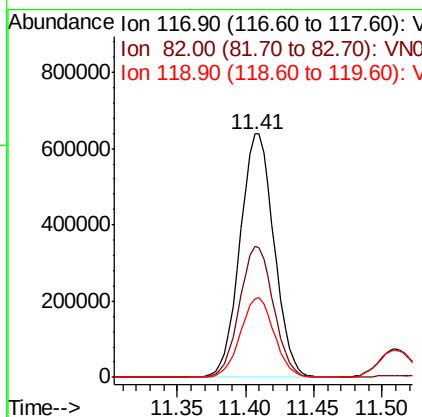
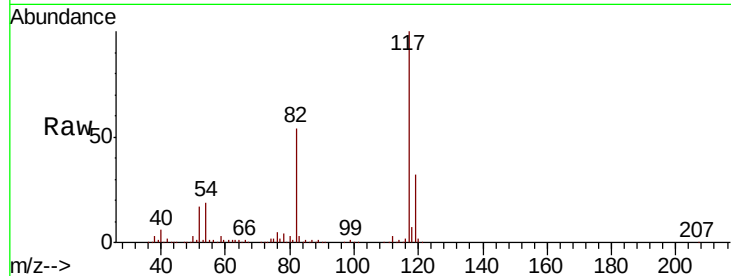
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	42.8	64.2
119	32.4	25.5	38.3

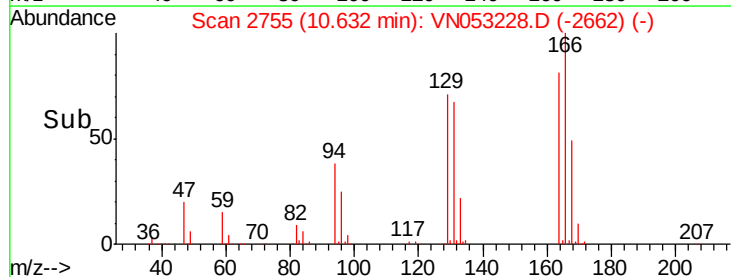
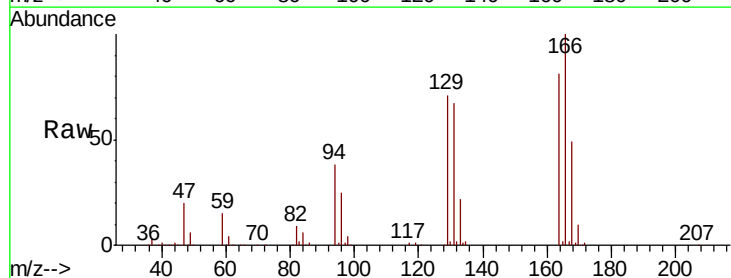
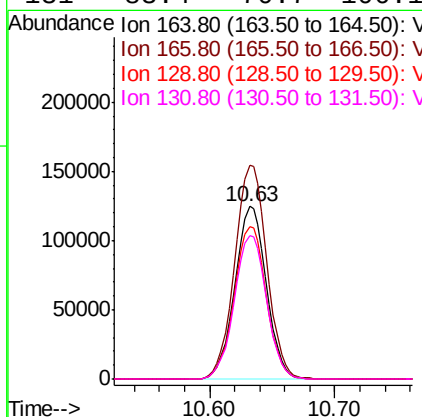
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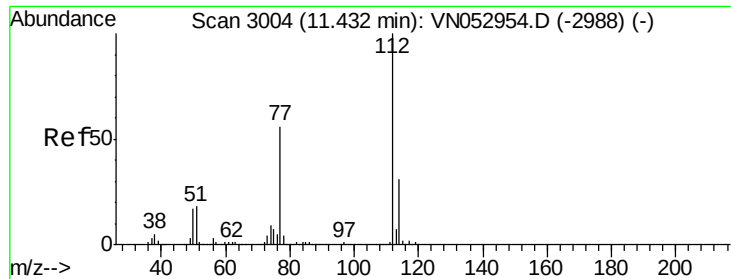
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#64
Tetrachloroethene
Concen: 18.070 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.9	102.9	154.3
129	88.5	73.7	110.5
131	83.4	70.7	106.1





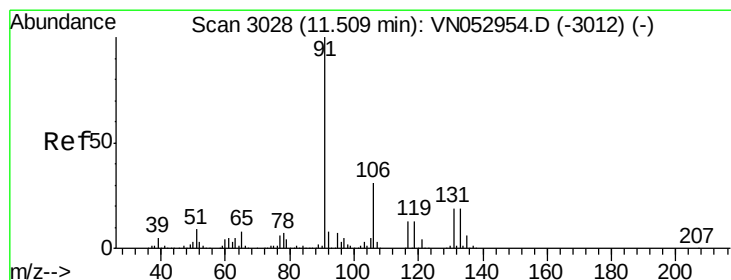
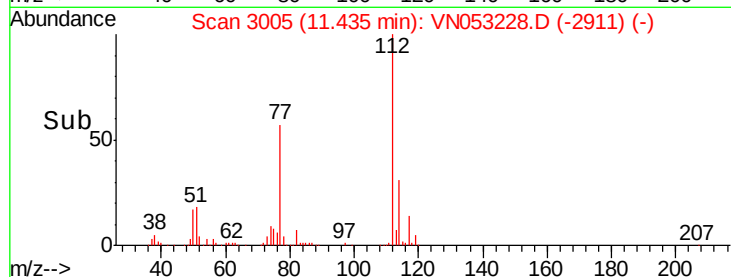
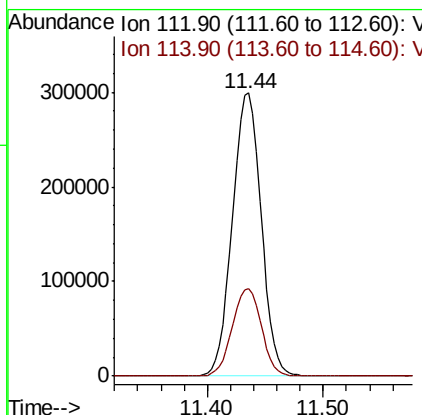
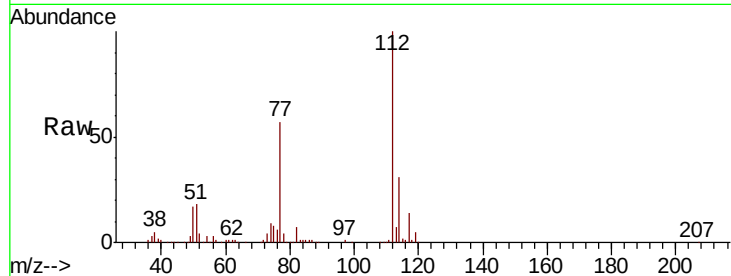
#65
Chlorobenzene
Concen: 20.949 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion:112 Resp: 514236
Ion Ratio Lower Upper
112 100
114 31.0 25.5 38.3

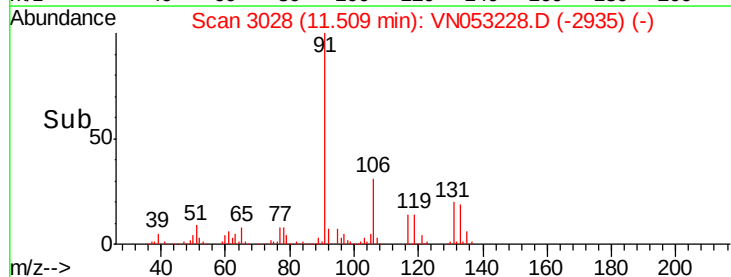
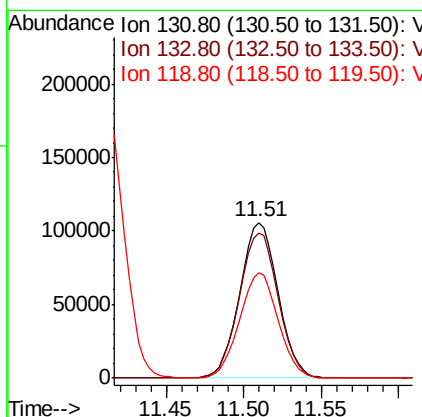
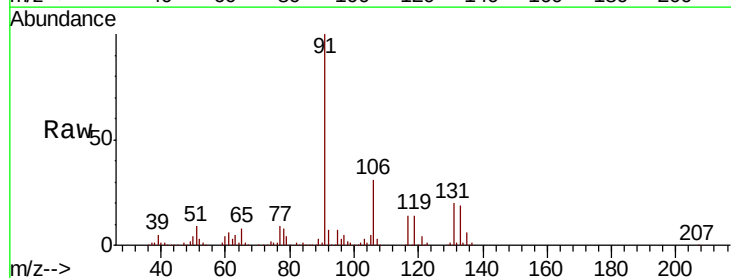
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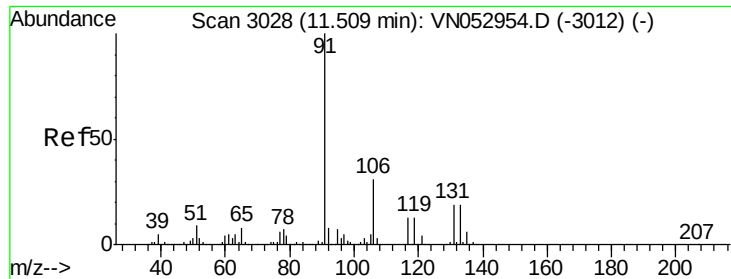
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.312 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion:131 Resp: 181926
Ion Ratio Lower Upper
131 100
133 95.1 47.6 142.9
119 68.5 33.3 99.8





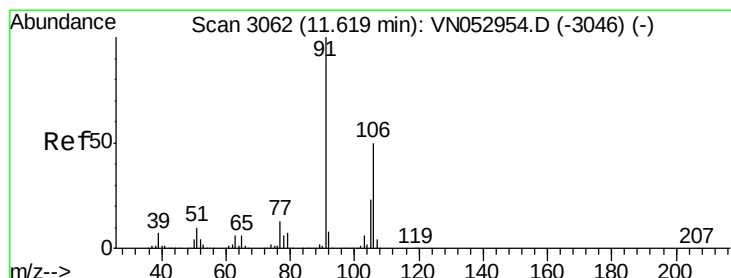
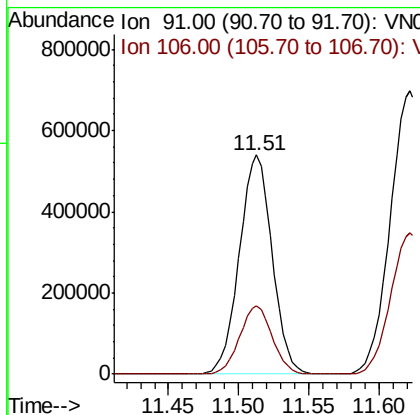
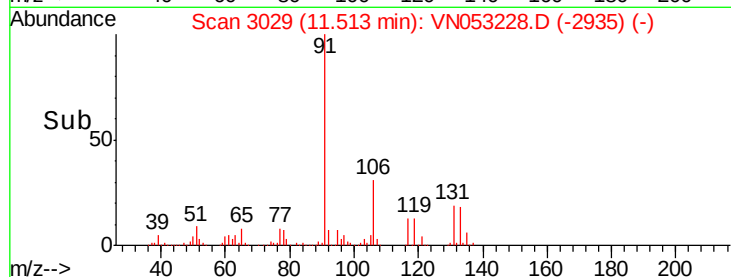
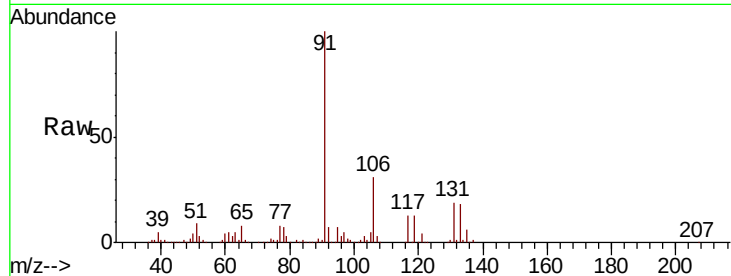
#67
Ethyl Benzene
Concen: 20.854 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampled :
VN1228WBSD02

Tot Ion: 91 Resp: 880346
Ion Ratio Lower Upper
91 100
106 31.1 24.9 37.3

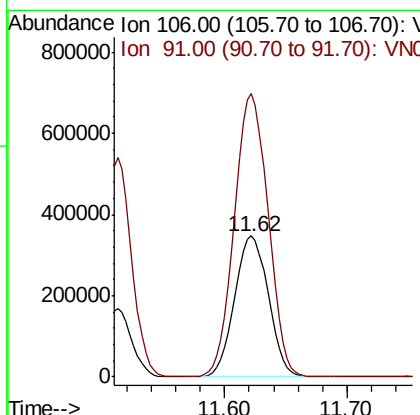
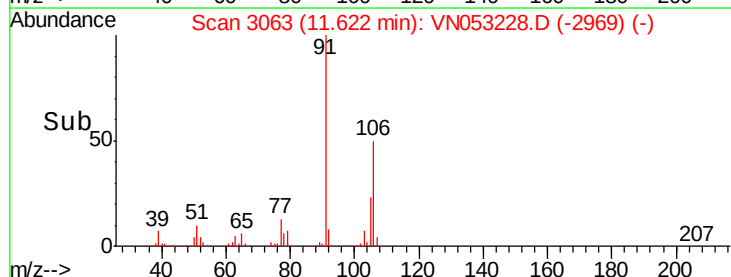
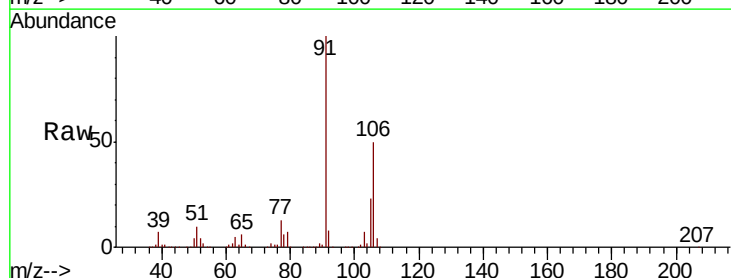
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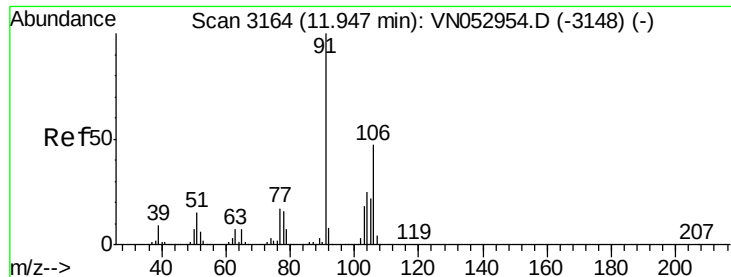
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#68
m/p-Xylenes
Concen: 41.400 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion: 106 Resp: 664406
Ion Ratio Lower Upper
106 100
91 201.3 162.2 243.4





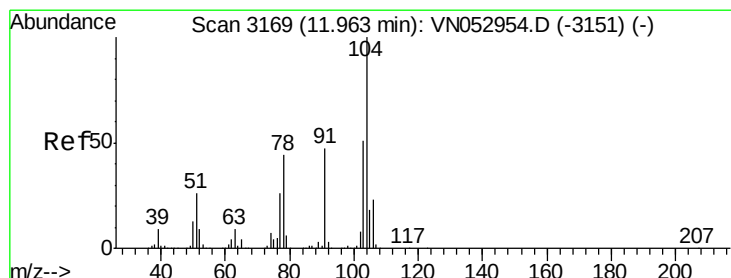
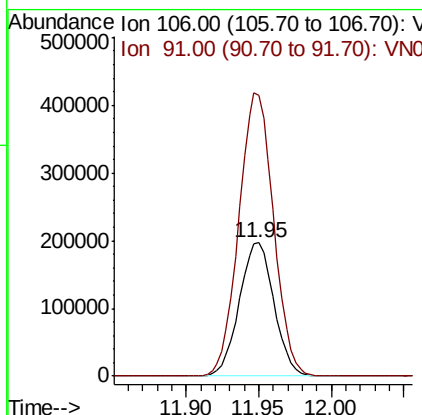
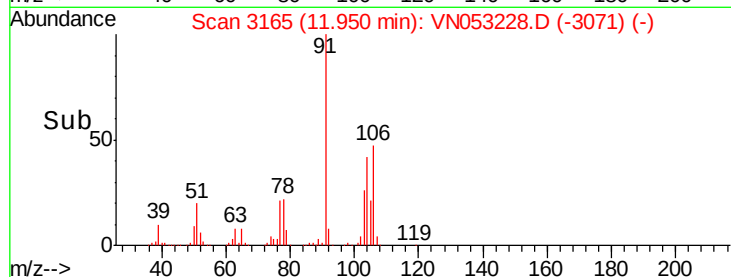
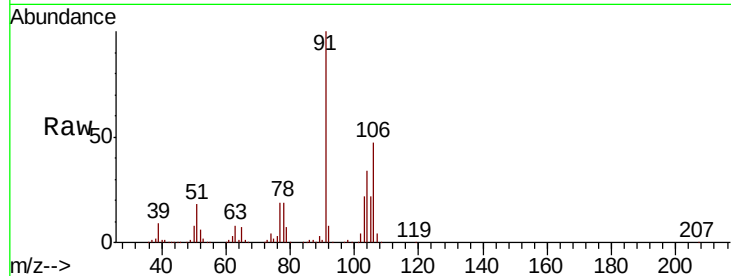
#69
o-Xylene
Concen: 21.294 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampled :
VN1228WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	211.9	106.6	327921	319.8	

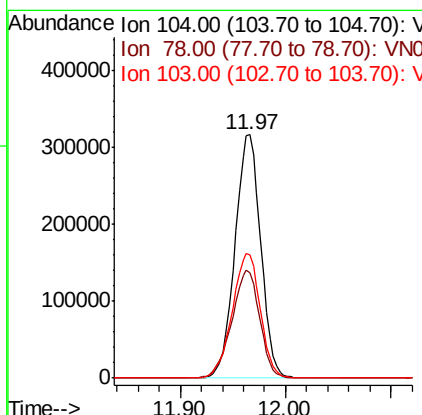
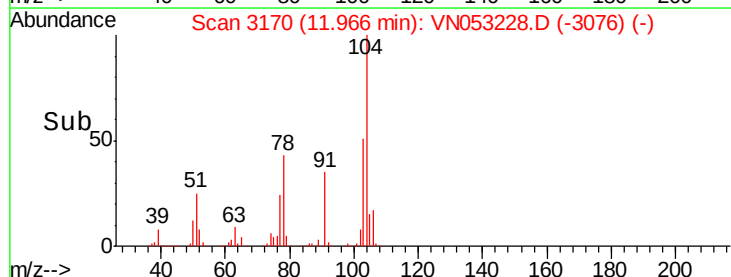
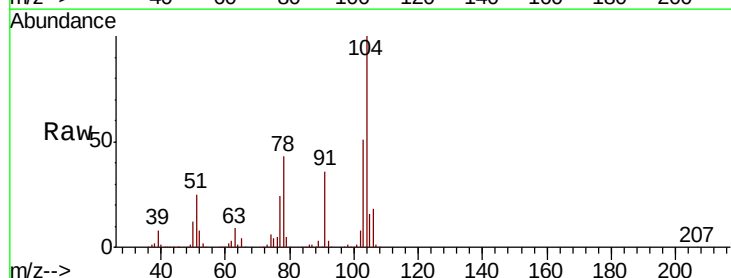
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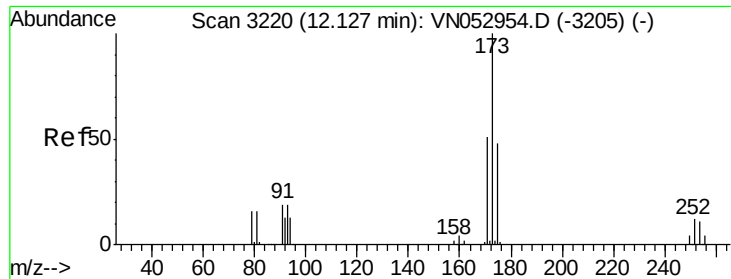
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#70
Styrene
Concen: 21.233 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	48.0	38.9	533194	58.3	
103	55.6	44.3		66.5	





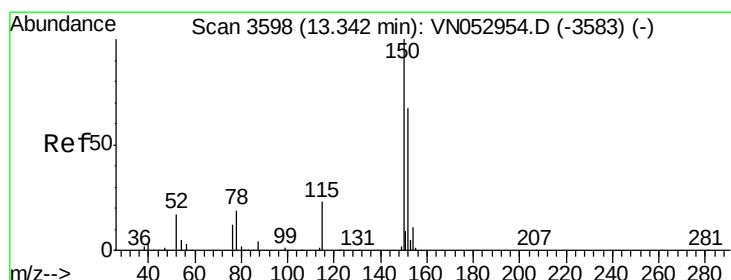
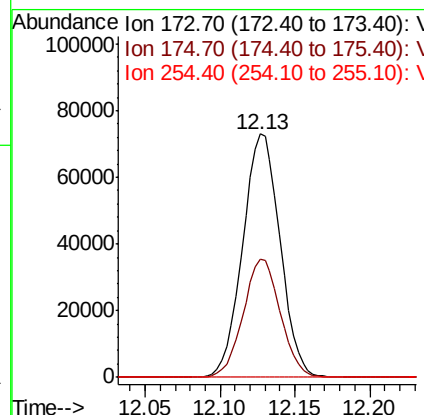
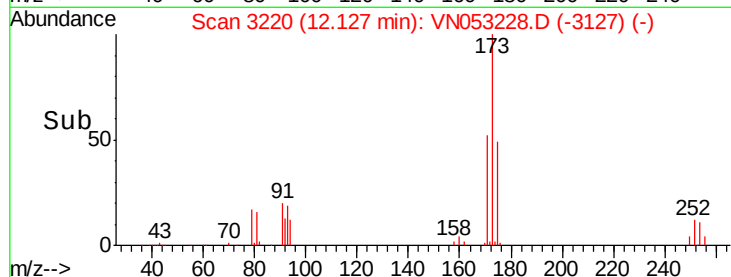
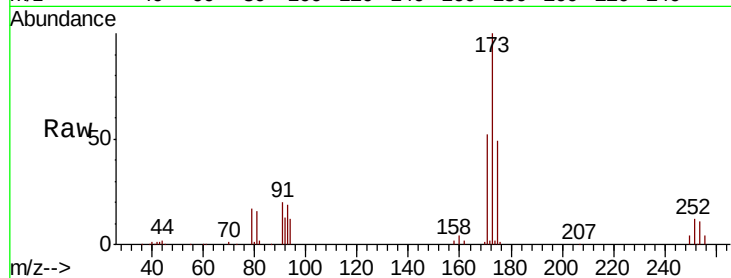
#71
Bromoform
Concen: 20.576 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.3	72.9
254	0.0	0.1	0.1#

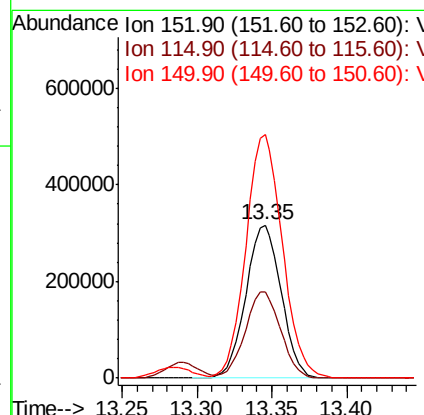
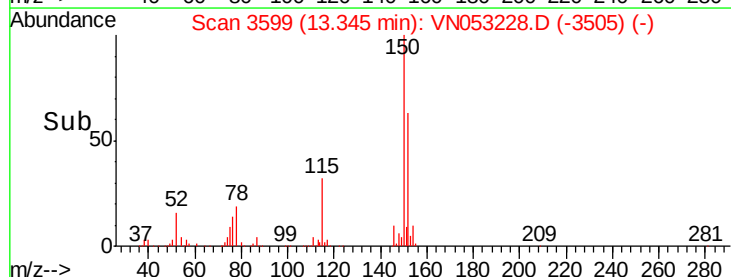
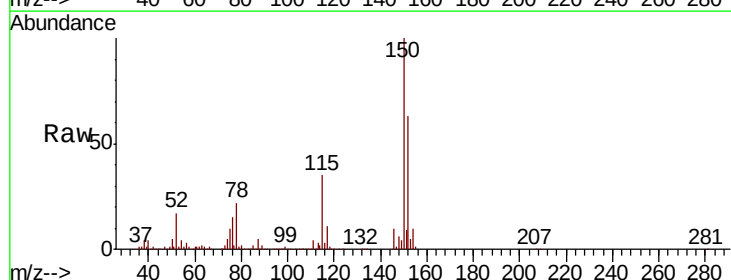
Manual Integrations
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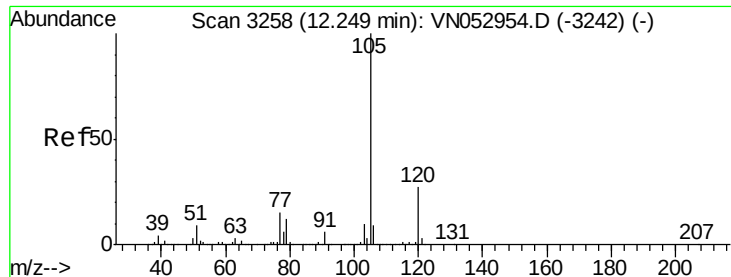
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.3	85.0
150	164.8	0.0	347.8





#73

Isopropylbenzene

Concen: 21.176 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN1228WBSD02

Tot Ion:105 Resp: 861001

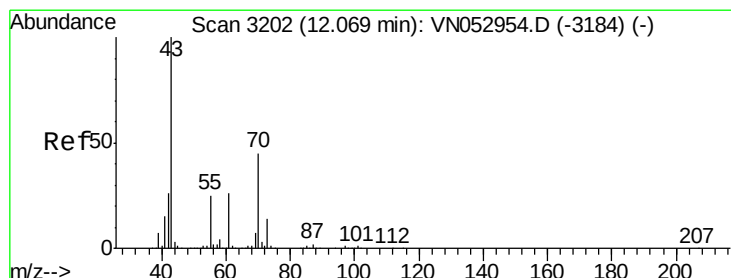
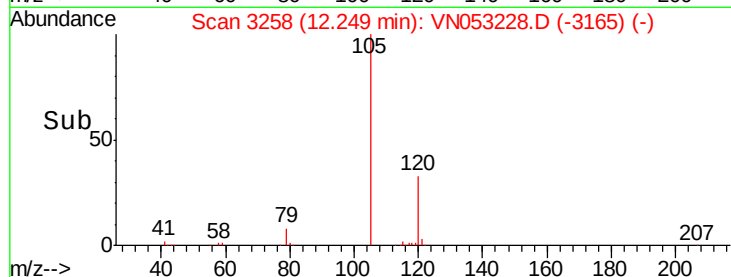
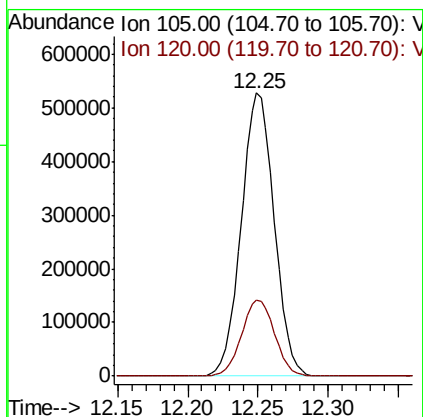
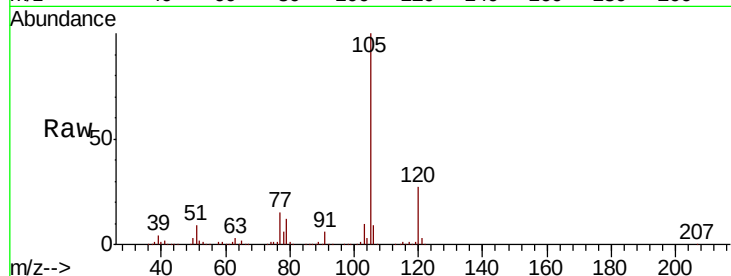
Ion Ratio Lower Upper

105 100

120 26.9 13.3 39.9

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#74

N-ethyl acetate

Concen: 22.394 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Tgt Ion: 43 Resp: 252788

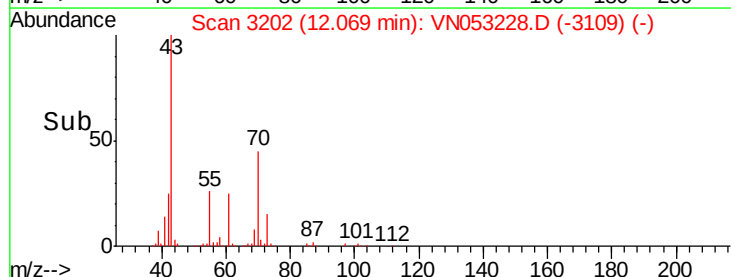
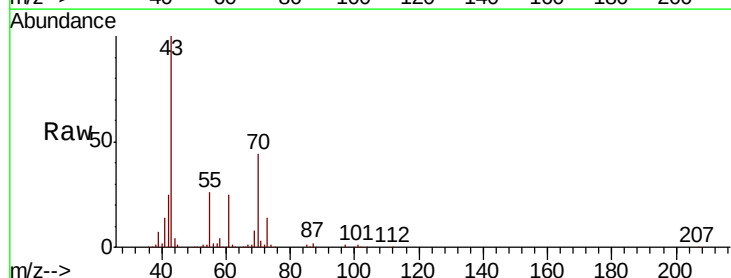
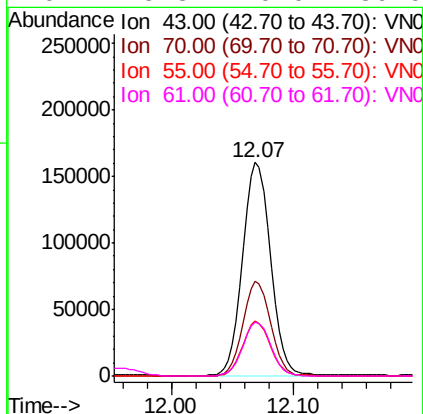
Ion Ratio Lower Upper

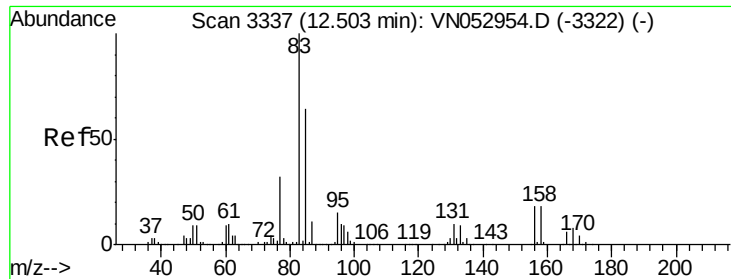
43 100

70 44.0 34.2 51.4

55 25.4 20.3 30.5

61 25.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 25.220 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

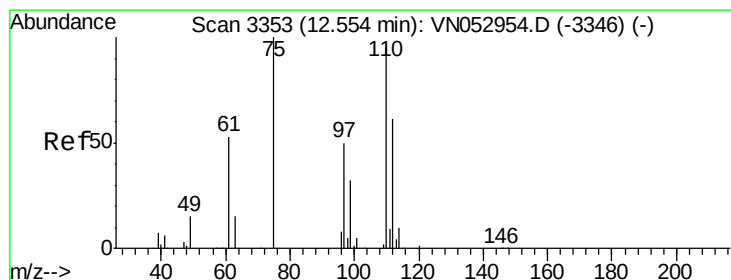
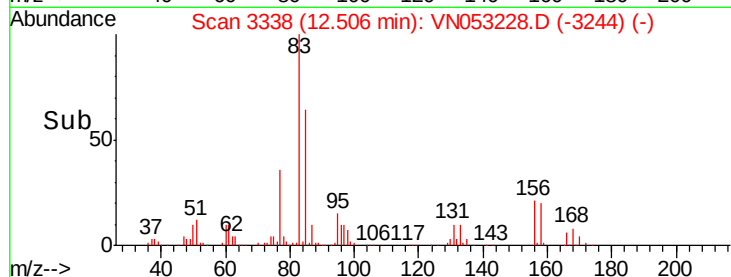
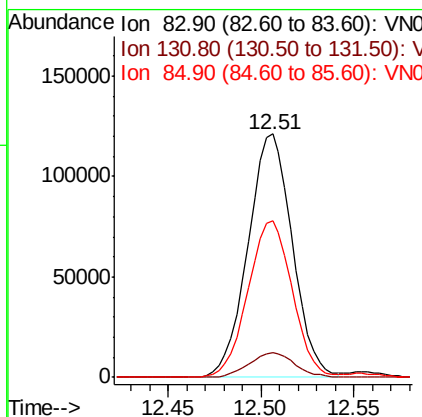
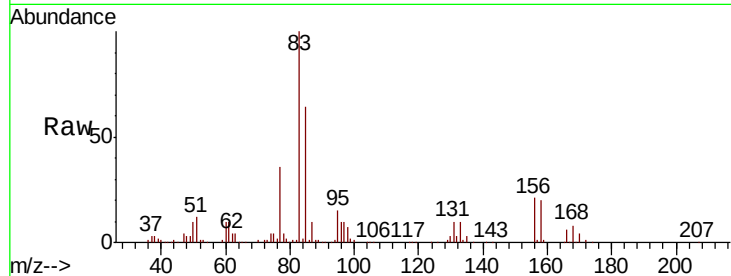
ClientSampleId :

VN1228WBSD02

Tot Ion:	83	Resp:	201174
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.2	15.6
85	64.4	32.4	97.0

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#76

1,2,3-Trichloropropane

Concen: 19.792 ug/l m

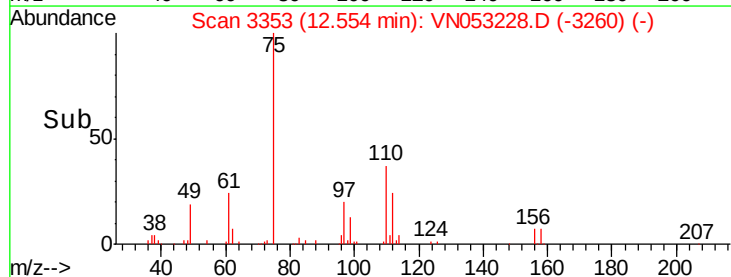
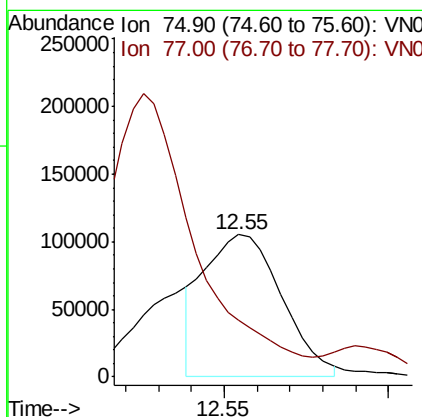
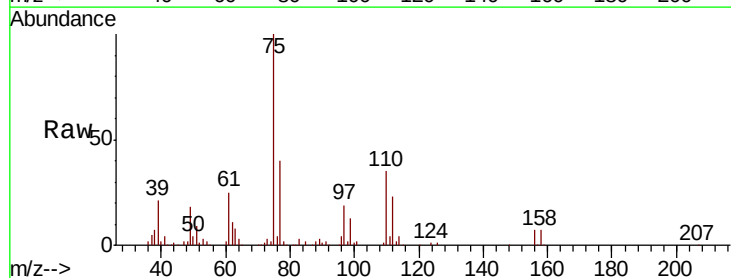
RT: 12.55 min Scan# 3353

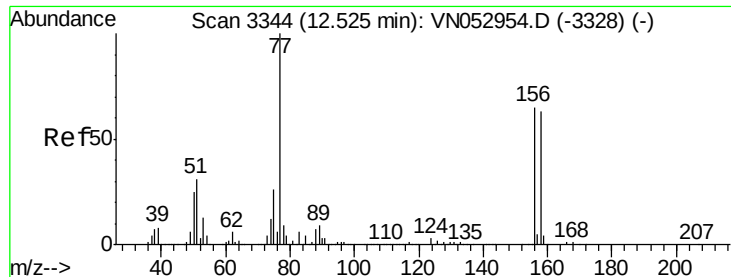
Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Tgt Ion:	75	Resp:	173137
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.019 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

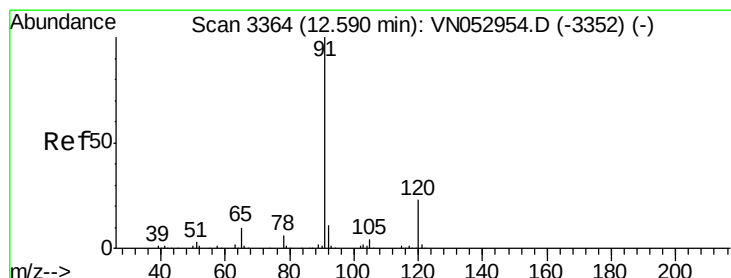
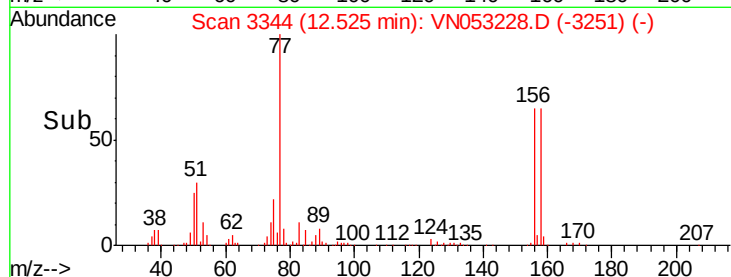
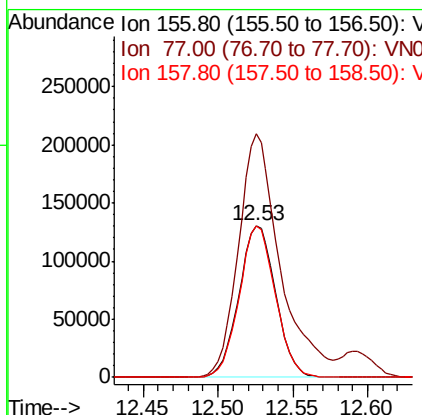
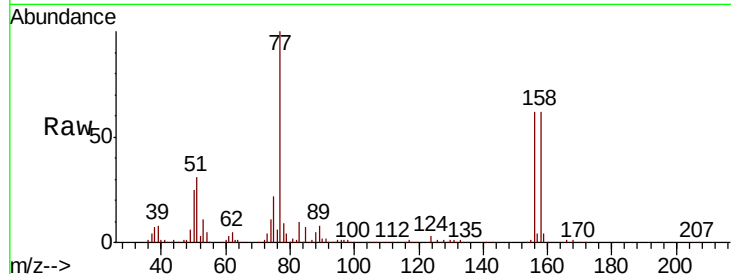
ClientSampleId :

VN1228WBSD02

Tot Ion:	156	Resp:	222151
Ion Ratio	Lower	Upper	
156	100		
77	183.6	91.3	273.8
158	98.5	49.0	147.2

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#78

n-propylbenzene

Concen: 20.680 ug/l

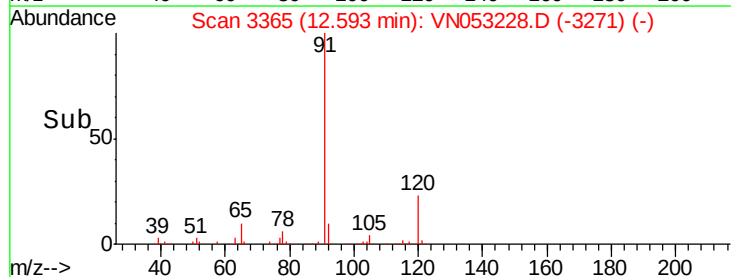
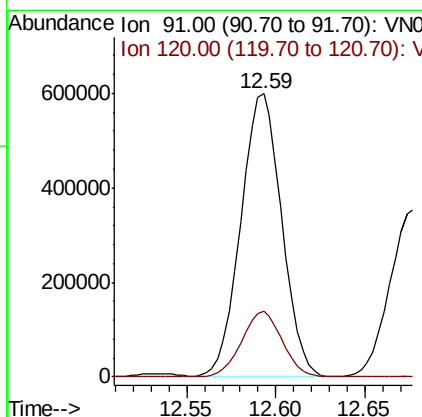
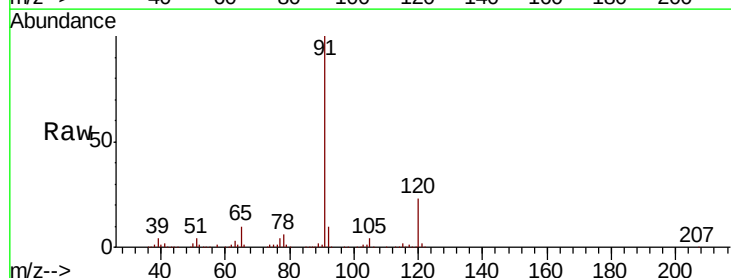
RT: 12.59 min Scan# 3365

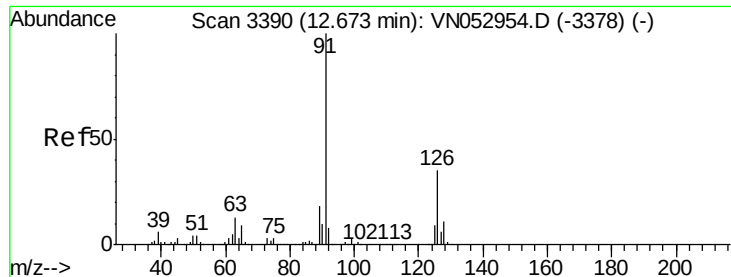
Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Tgt Ion:	91	Resp:	957650
Ion Ratio	Lower	Upper	
91	100		
120	23.1	11.5	34.5





#79

2-Chlorotoluene

Concen: 20.259 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampled :

VN1228WBSD02

Tot Ion: 91 Resp: 581508

Ion Ratio Lower Upper

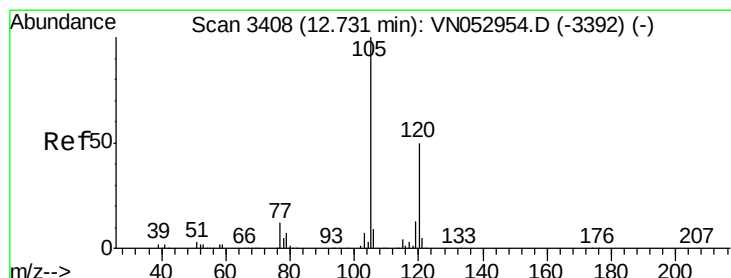
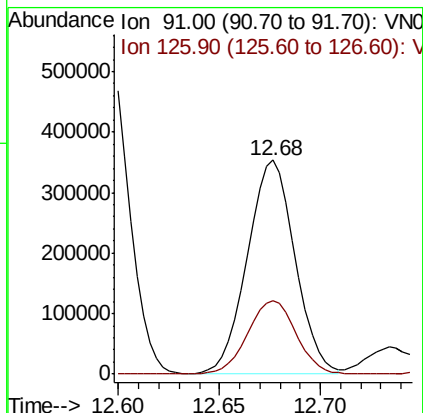
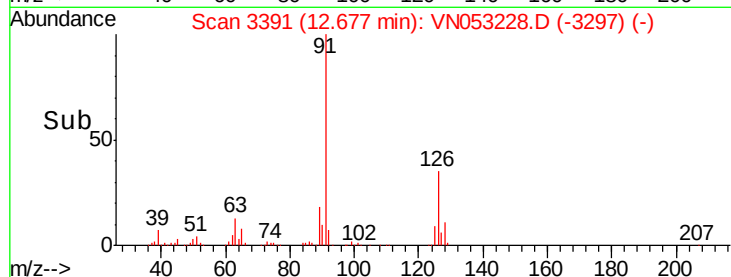
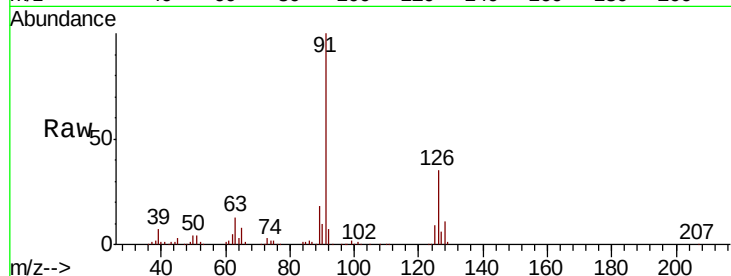
91 100

126 35.1 17.4 52.3

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#80

1,3,5-Trimethylbenzene

Concen: 20.579 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053228.D

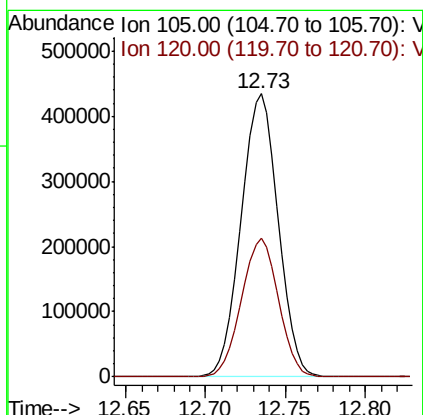
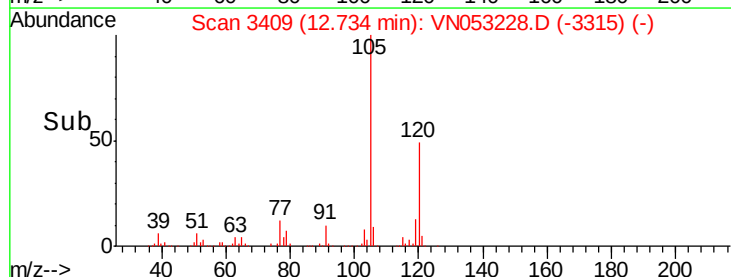
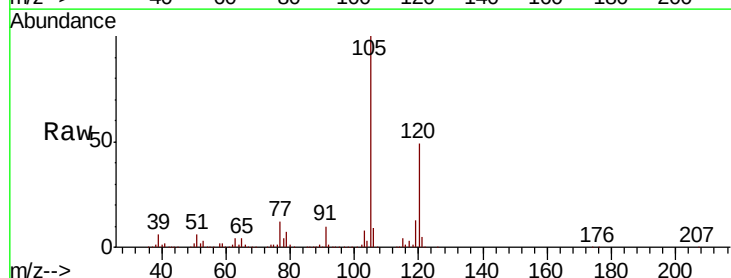
Acq: 28 Dec 2018 16:43

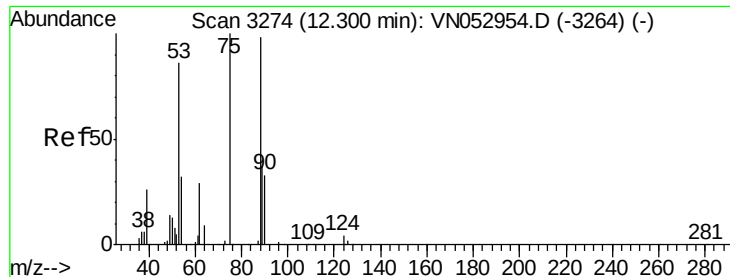
Tgt Ion: 105 Resp: 681999

Ion Ratio Lower Upper

105 100

120 49.0 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 20.220 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN1228WBSD02

Tot Ion: 75 Resp: 54881

Ion Ratio Lower Upper

75 100

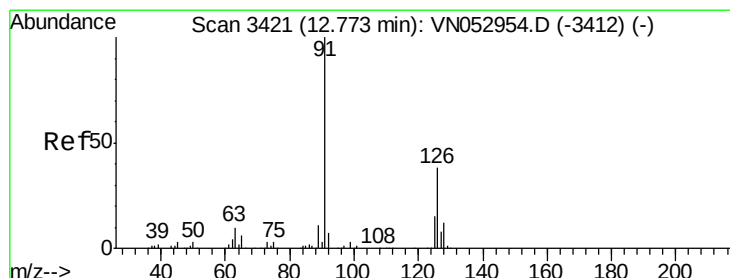
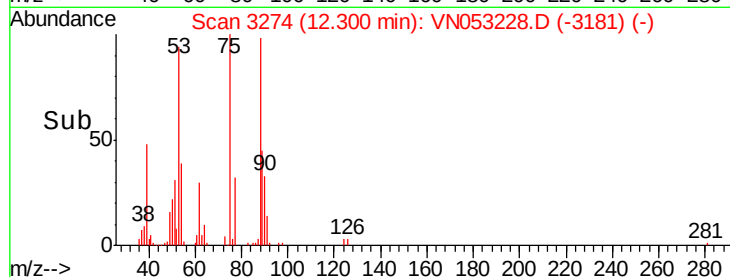
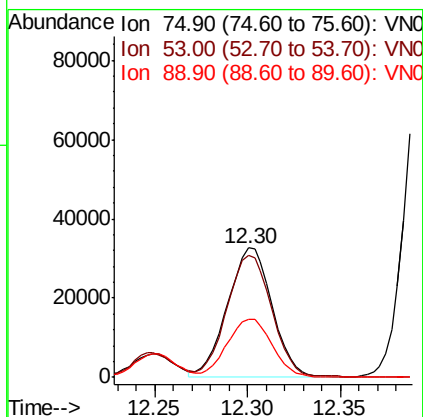
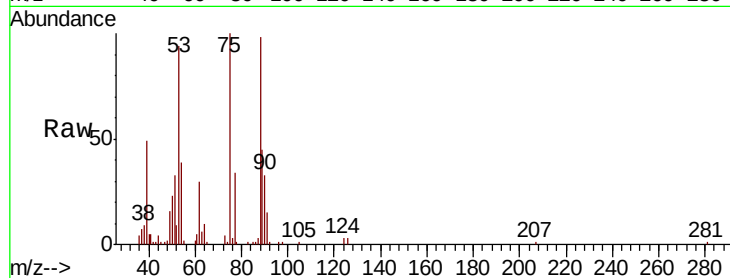
53 94.6 74.7 112.1

89 45.4 36.1 54.1

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#82

4-Chlorotoluene

Concen: 20.806 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN053228.D

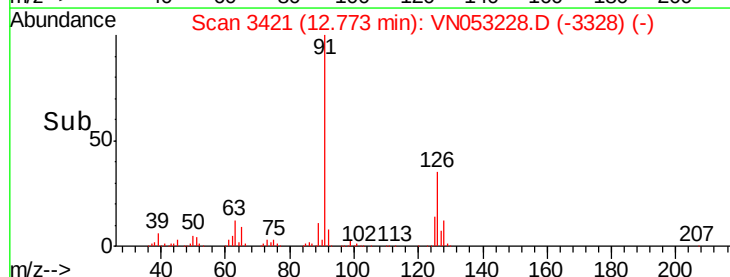
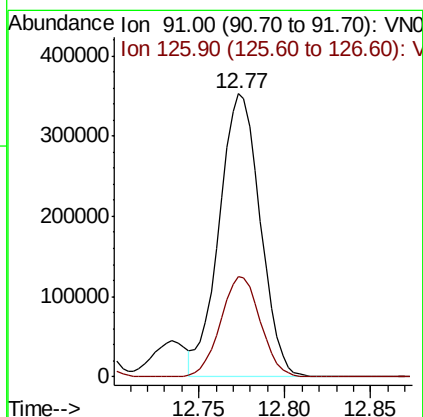
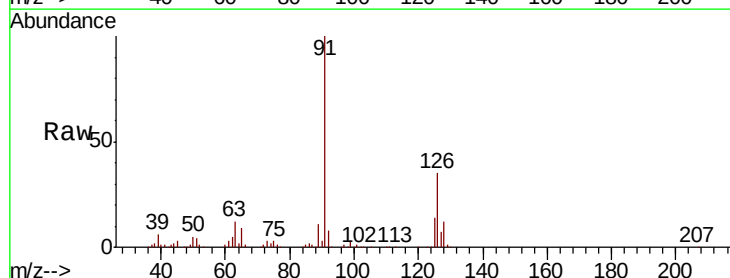
Acq: 28 Dec 2018 16:43

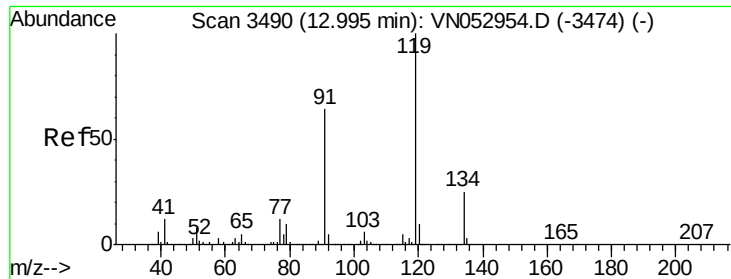
Tgt Ion: 91 Resp: 584610

Ion Ratio Lower Upper

91 100

126 34.5 17.3 51.7





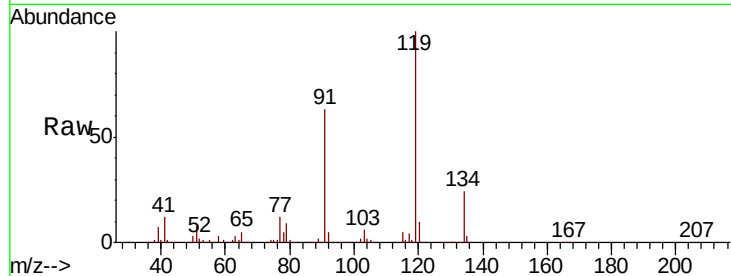
#83
 tert-Butylbenzene
 Concen: 20.689 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1228WBSD02

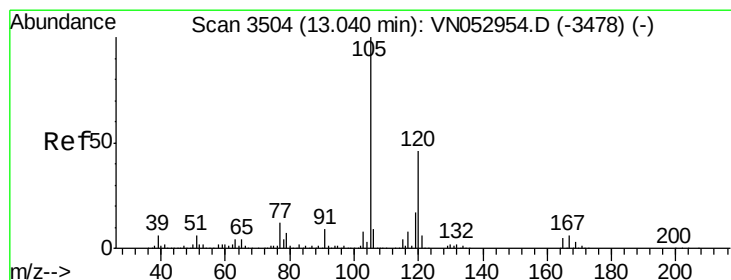
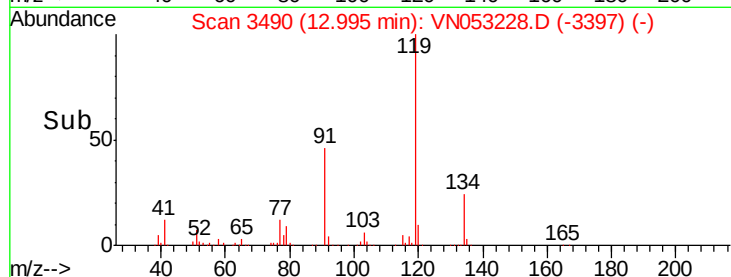
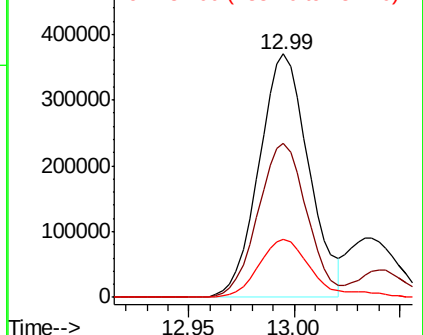
Tot Ion	Ratio	Resp	Lower	Upper
119	100	606393		
91	62.6		31.9	95.5
134	25.7		12.8	38.4

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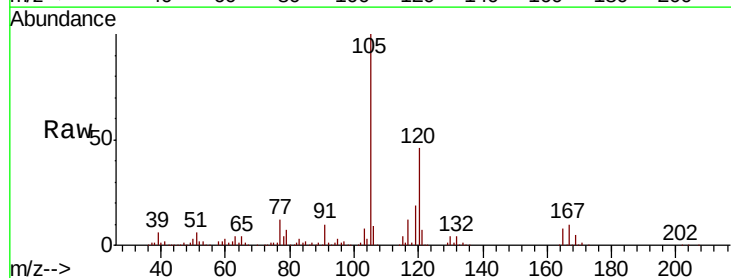


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

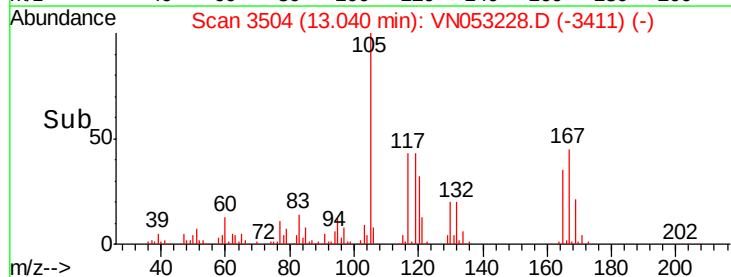
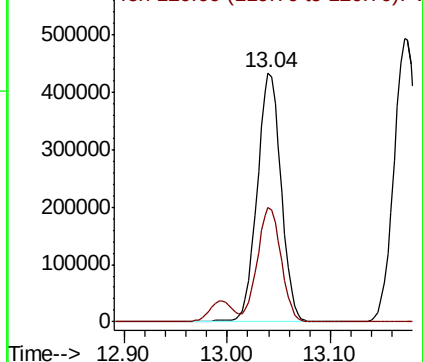


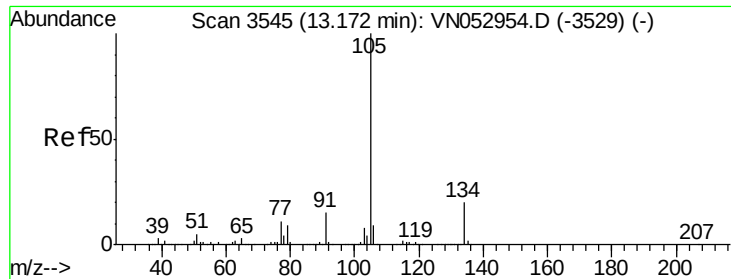
#84
 1,2,4-Trimethylbenzene
 Concen: 20.840 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	694312		
120	46.0		22.9	68.8



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 19.879 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

ClientSampleId :

VN1228WBSD02

Tot Ion:105 Resp: 788102

Ion Ratio Lower Upper

105 100

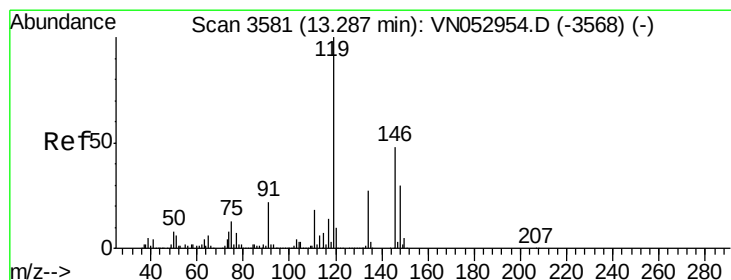
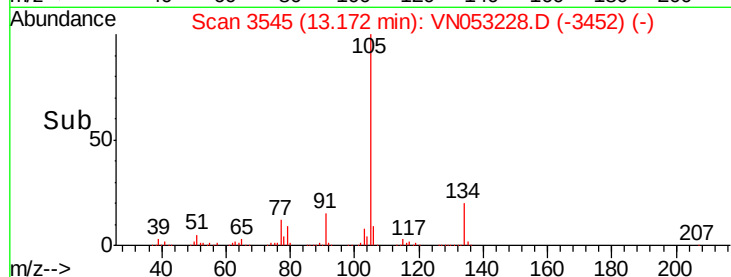
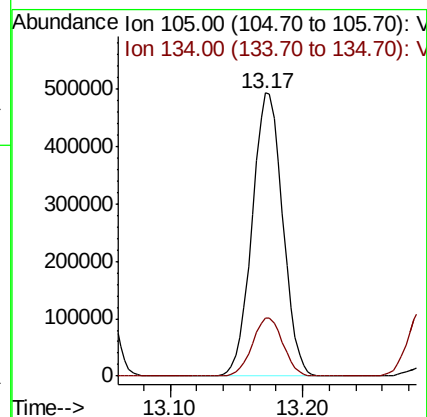
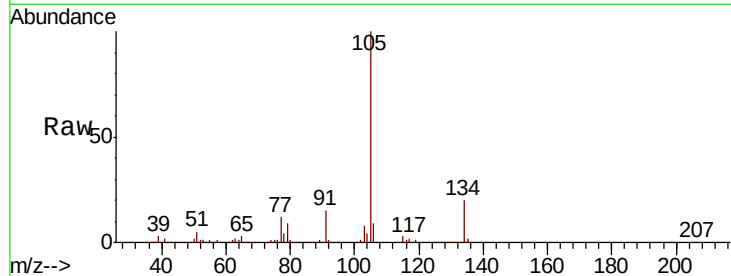
134 20.6 10.1 30.3

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#86

p-Isopropyltoluene

Concen: 19.802 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

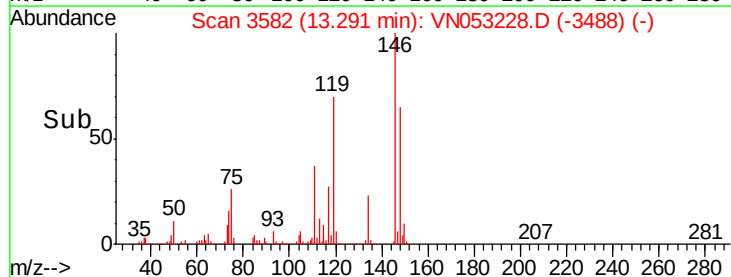
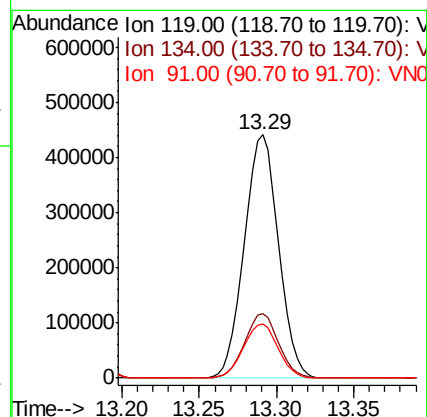
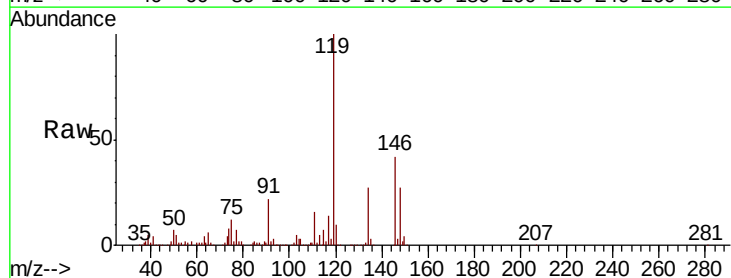
Tgt Ion:119 Resp: 678350

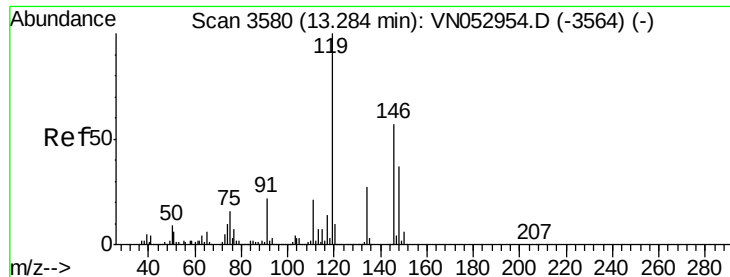
Ion Ratio Lower Upper

119 100

134 26.3 13.4 40.2

91 22.5 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 20.458 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

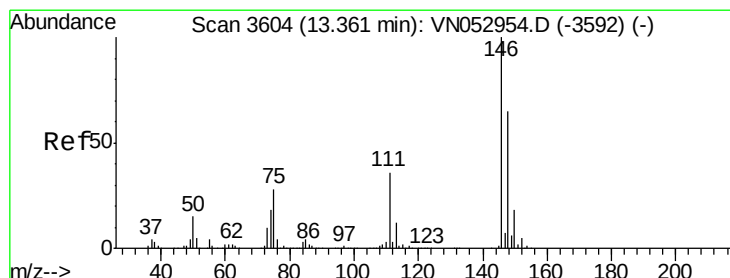
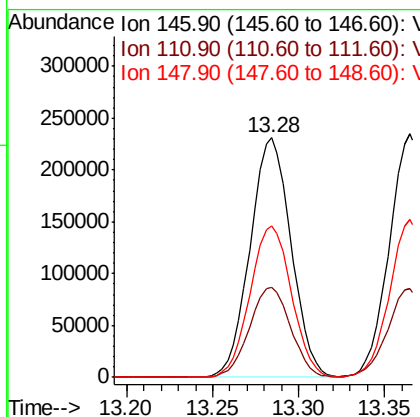
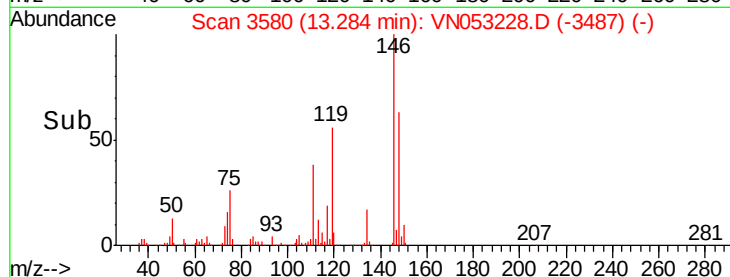
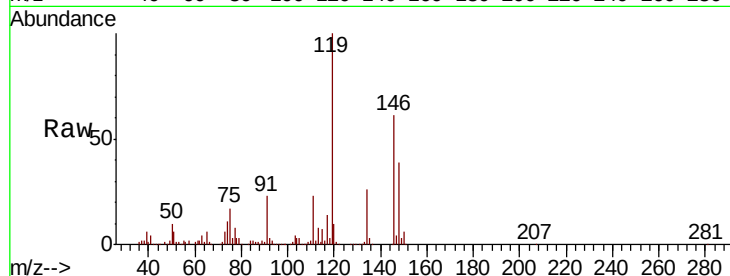
ClientSampleId :

VN1228WBSD02

Tot Ion:	146	Resp:	382683
Ion Ratio	Lower	Upper	
146	100		
111	37.8	19.1	57.1
148	63.7	32.0	96.0

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#88

1,4-Dichlorobenzene

Concen: 19.959 ug/l

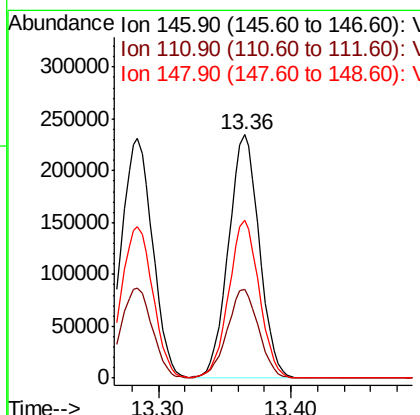
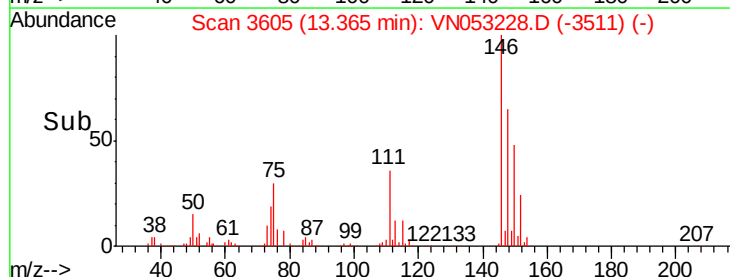
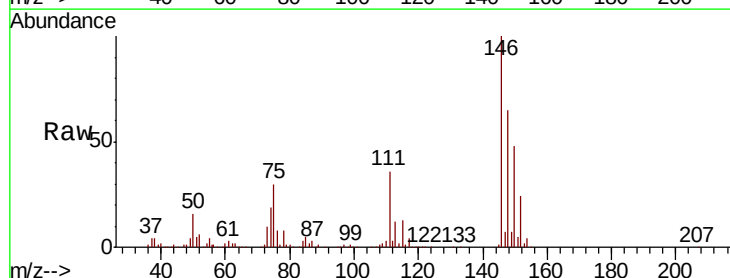
RT: 13.36 min Scan# 3605

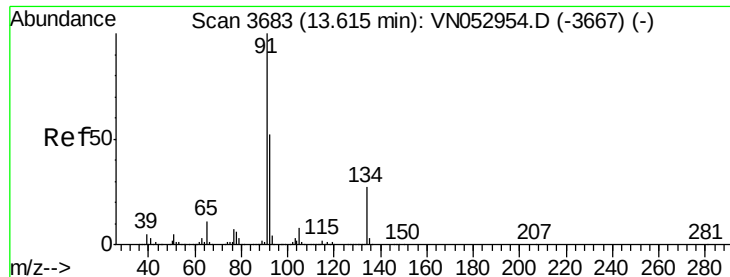
Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Tgt Ion:	146	Resp:	378080
Ion Ratio	Lower	Upper	
146	100		
111	37.4	18.6	55.8
148	64.2	32.1	96.5





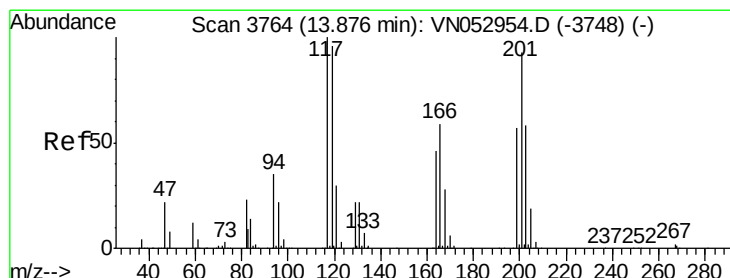
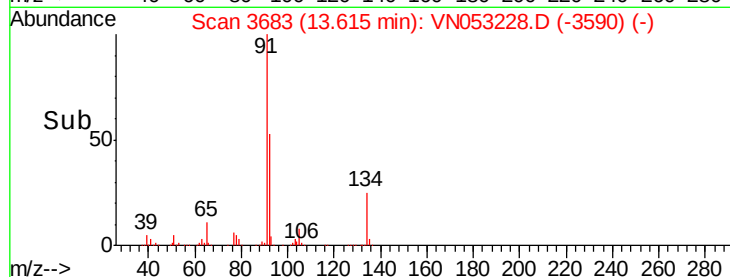
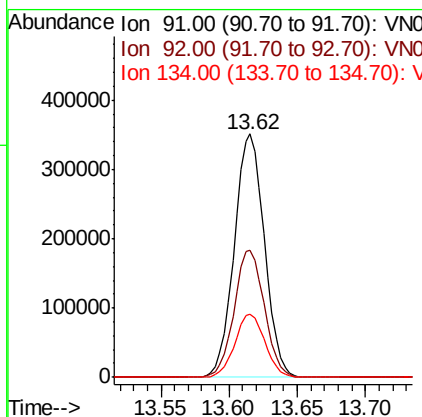
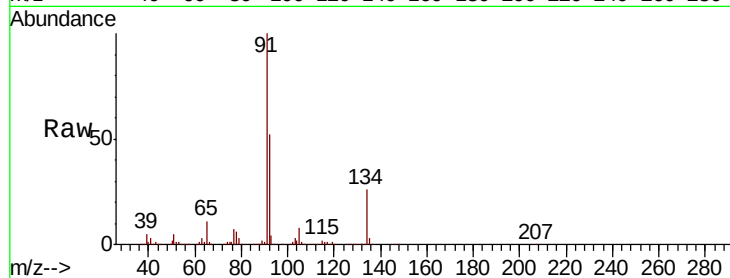
#89
n-Butylbenzene
Concen: 18.202 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Instrument :
MSVOA_N
ClientSampleId :
VN1228WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.3	78.9
134	26.1	13.3	39.8

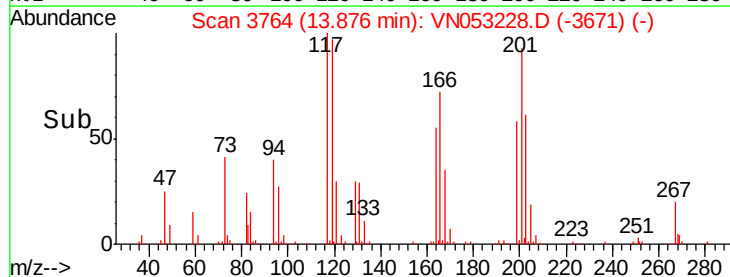
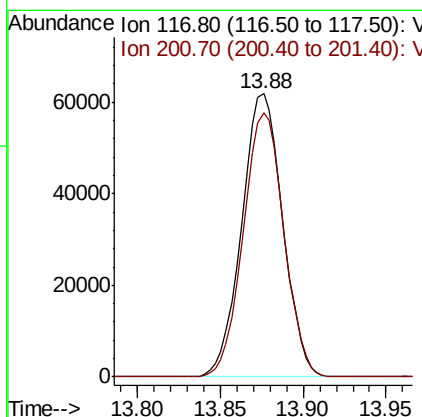
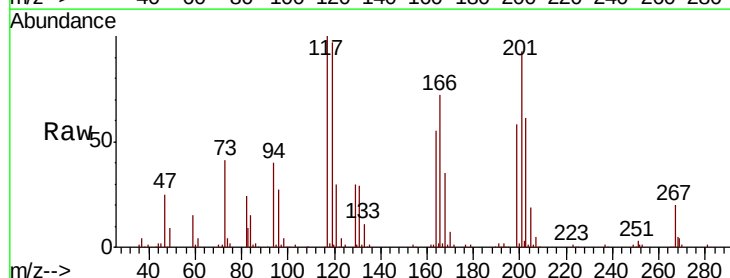
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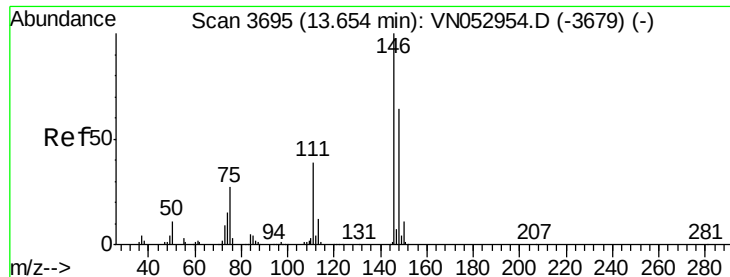
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#90
Hexachloroethane
Concen: 20.190 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053228.D
Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.5	45.7	137.1





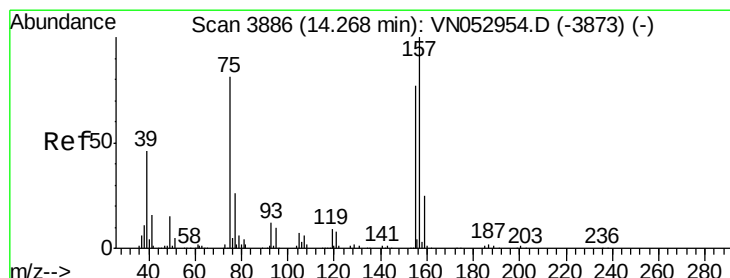
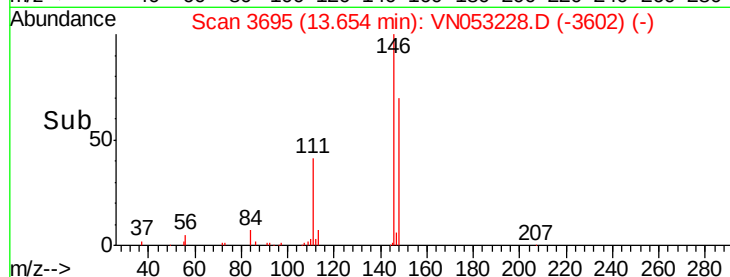
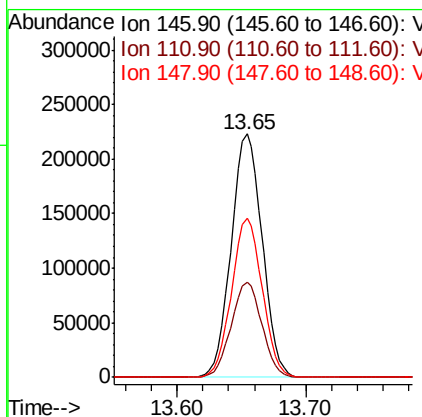
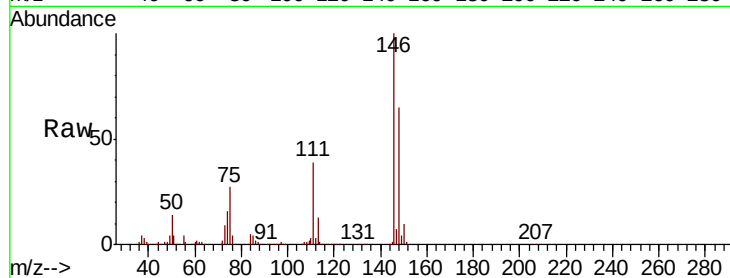
#91
 1,2-Dichlorobenzene
 Concen: 21.121 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1228WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.7	59.0
148	64.7	32.0	96.0

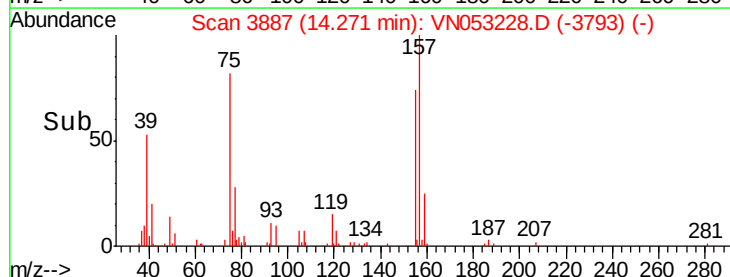
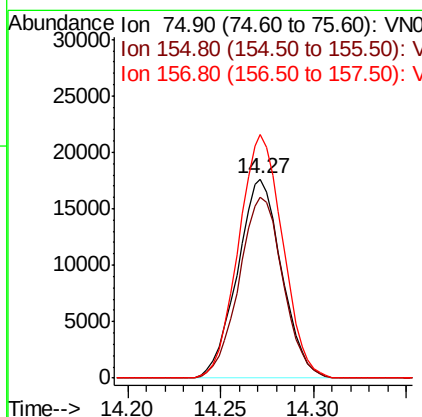
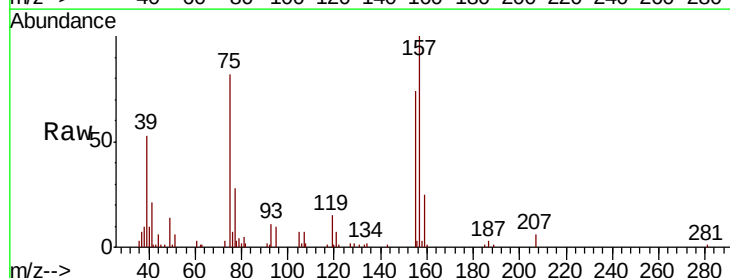
Manual Integrations
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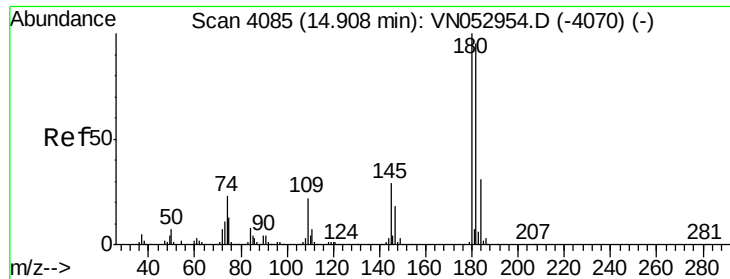
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 1/2/2019 9:49:27 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.205 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.0	48.2	144.6
157	121.9	61.2	183.5





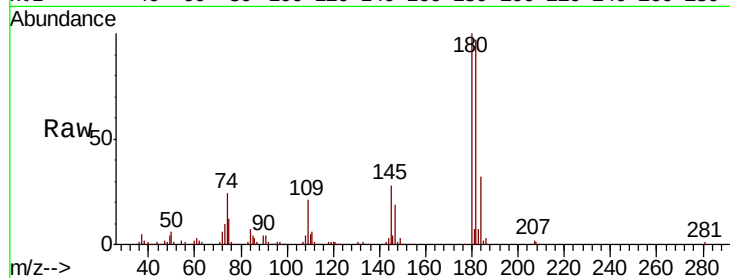
#93
 1,2,4-Trichlorobenzene
 Concen: 18.160 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1228WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	165802		
182	95.1	47.8	143.3	
145	28.4	14.2	42.6	

Manual Integrations
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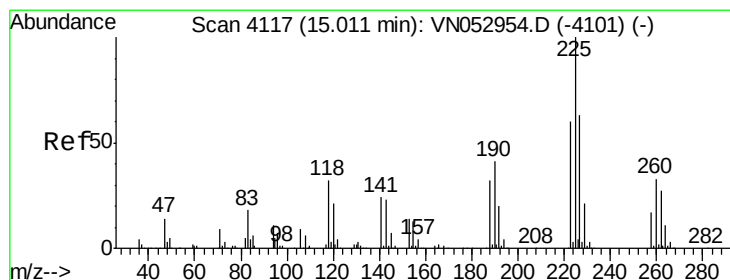
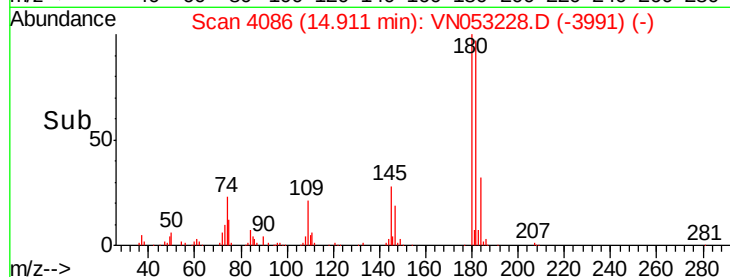
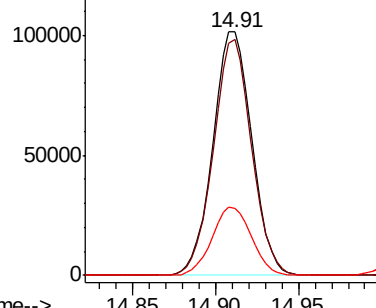


Abundance

Ion 179.80 (179.50 to 180.50): V

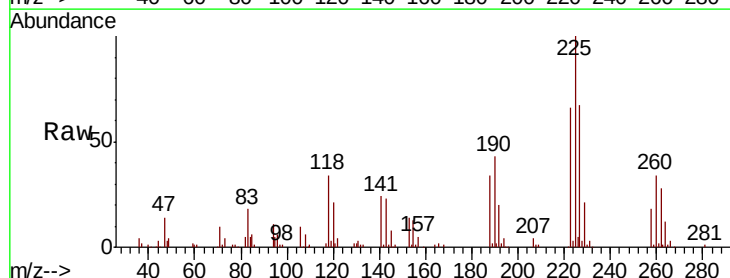
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 20.559 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053228.D
 Acq: 28 Dec 2018 16:43

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	107452		
223	63.8	31.5	94.5	
227	65.5	31.9	95.7	

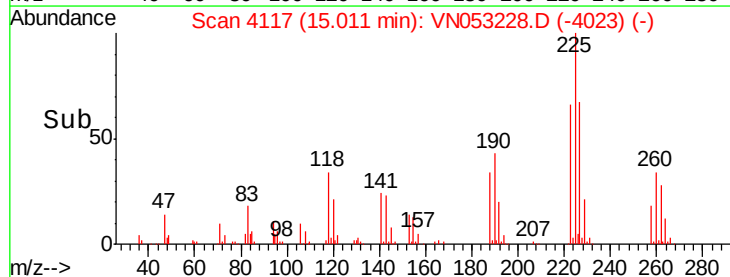
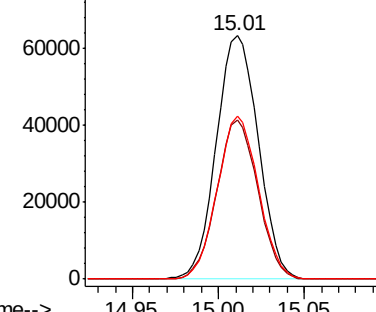


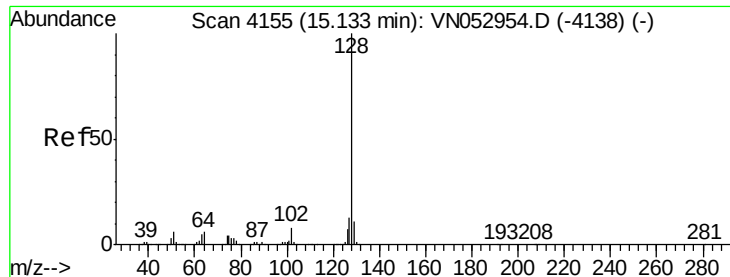
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 18.426 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Instrument :

MSVOA_N

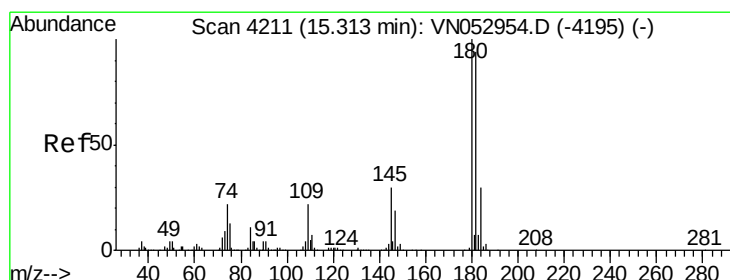
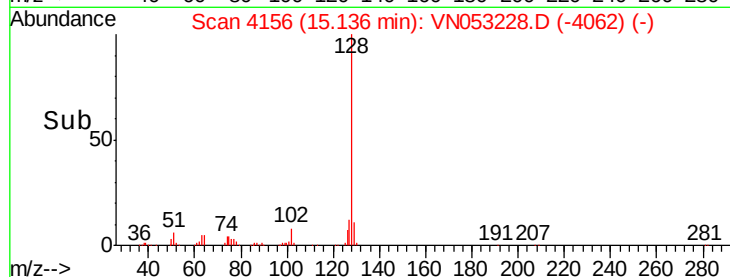
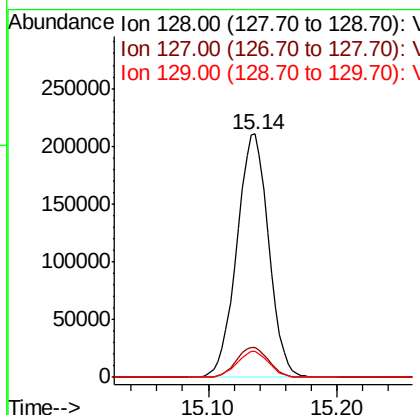
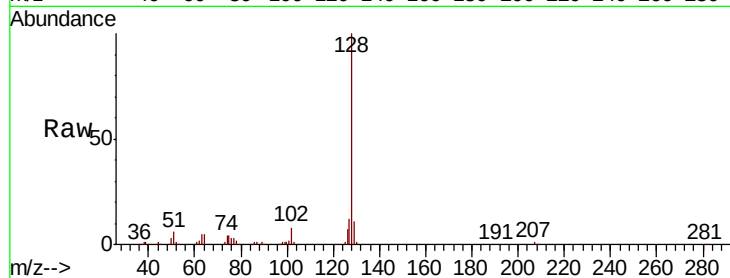
ClientSampleId :

VN1228WBSD02

Tot Ion:	128	Resp:	361328
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.2	15.4
129	10.8	8.6	13.0

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 18.204 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053228.D

Acq: 28 Dec 2018 16:43

Tgt Ion:	180	Resp:	150155
Ion Ratio	Lower	Upper	
180	100		
182	96.0	47.9	143.7
145	30.2	15.0	45.0

