

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051316.D
 Acq On : 19 Sep 2018 14:01
 Operator : MD\SY
 Sample : VN0919WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0919WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/20/2018 1:42:08 PM

Quant Time: Sep 19 16:14:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	101428	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	542347	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	470626	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	186530	28.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.07%
60) 4-Bromofluorobenzene	12.40	95	203288	29.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.83%
63) Toluene-d8	10.09	98	665003	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	110056	17.47	ug/l	100
3) Chloromethane	2.06	50	142380	19.14	ug/l	99
4) Vinyl Chloride	2.18	62	144375	19.65	ug/l	99
5) Bromomethane	2.57	94	85648	19.12	ug/l	98
6) Chloroethane	2.70	64	87476	20.18	ug/l	95
7) Trichlorofluoromethane	3.01	101	208040	21.35	ug/l	99
8) Diethyl Ether	3.41	74	67973	19.79	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.76	101	125863	20.86	ug/l	97
10) 1,1-Dichloroethene	3.74	96	110851	20.23	ug/l	99
11) Methyl Iodide	3.95	142	109150	21.35	ug/l	98
12) Methyl Acetate	4.33	43	91956	14.51	ug/l	99
13) Acrolein	3.61	56	32102	228.76	ug/l	96
14) Acrylonitrile	5.00	53	185776	86.70	ug/l	100
15) Acetone	3.82	58	45895	83.70	ug/l	88
16) Carbon Disulfide	4.05	76	329520	20.00	ug/l	99
17) Allyl chloride	4.33	41	160383	18.60	ug/l	99
18) Methylene Chloride	4.55	84	130863	20.34	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	119721	20.50	ug/l	95
20) Diisopropyl ether	5.96	45	353973	19.77	ug/l	96
21) 1,1-Dichloroethane	5.85	63	218967	19.95	ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	135497	20.54	ug/l	99
23) tert-Butyl Alcohol	4.79	59	37676	82.68	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	290506	19.38	ug/l	99
25) Chloroform	7.37	83	231640	21.15	ug/l	99
26) Cyclohexane	7.65	56	178637	19.65	ug/l #	96
29) 1,1-Dichloropropene	7.80	75	166277	20.48	ug/l	98
30) 2-Butanone	6.84	43	196136	78.52	ug/l	98
31) 2,2-Dichloropropane	6.83	77	170618	21.60	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	195558	21.24	ug/l	98
33) Carbon Tetrachloride	7.78	117	176816	21.32	ug/l	96
34) Benzene	8.04	78	517071	20.59	ug/l	97
35) Methacrylonitrile	7.17	41	40134	14.67	ug/l	92
36) 1,2-Dichloroethane	8.13	62	153865	20.25	ug/l	99
37) Trichloroethene	8.84	130	143289	21.83	ug/l	94
38) Methylcyclohexane	9.08	83	179830	20.62	ug/l	97
39) 1,2-Dichloropropane	9.12	63	134325	20.48	ug/l	99
40) Dibromomethane	9.21	93	80608	20.40	ug/l	98

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	171496	20.59	ug/l	99
42) Vinyl Acetate	5.90	43	1108761	96.37	ug/l	98
43) Ethyl Acetate	6.93	43	94508	18.47	ug/l	99
44) Isopropyl Acetate	8.17	43	162279	17.97	ug/l	# 76
45) 1,4-Dioxane	9.20	88	23316	347.62	ug/l	98
46) Methyl methacrylate	9.20	41	77289	17.09	ug/l	97
47) n-amyl Acetate	12.07	43	113356	15.62	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	157722	19.32	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	194564	20.74	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	115579	20.13	ug/l	99
51) Ethyl methacrylate	10.43	69	128602	18.31	ug/l	98
52) 1,3-Dichloropropane	10.71	76	187830	19.75	ug/l	98
53) Dibromochloromethane	10.90	129	133409	20.43	ug/l	99
54) 1,2-Dibromoethane	11.01	107	112177	19.76	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	242001	82.79	ug/l	98
56) Bromoform	12.13	173	91995	19.81	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	440085	81.73	ug/l	97
59) 2-Hexanone	10.75	43	269361	76.53	ug/l	98
61) Tetrachloroethene	10.63	164	132450	22.58	ug/l	99
62) Toluene	10.16	91	559200	21.30	ug/l	100
64) Chlorobenzene	11.44	112	348066	21.39	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	135967	22.13	ug/l	99
66) Ethyl Benzene	11.51	91	560712	20.62	ug/l	99
67) m/p-Xylenes	11.62	106	451513	43.15	ug/l	98
68) o-Xylene	11.95	106	215003	21.50	ug/l	97
69) Styrene	11.96	104	335897	21.13	ug/l	99
70) Isopropylbenzene	12.25	105	568210	21.39	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	137826	19.16	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	109502m	17.64	ug/l	
73) Bromobenzene	12.53	156	147232	21.06	ug/l	94
74) n-propylbenzene	12.59	91	614274	20.45	ug/l	97
75) 2-Chlorotoluene	12.67	91	384726	21.08	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	469826	21.64	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	31181	17.64	ug/l	99
78) 4-Chlorotoluene	12.77	91	365987	20.37	ug/l	98
79) tert-butylbenzene	12.99	119	398001	21.11	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	465381	21.50	ug/l	100
81) sec-Butylbenzene	13.17	105	520781	21.11	ug/l	98
82) p-Isopropyltoluene	13.29	119	444993	20.90	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	240177	20.32	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	222506	19.87	ug/l	99
85) n-Butylbenzene	13.62	91	300111	18.47	ug/l	98
86) Hexachloroethane	13.88	117	85457	20.91	ug/l	91
87) 1,2-Dichlorobenzene	13.65	146	236508	20.33	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18309	18.19	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	76956	14.86	ug/l	99
90) Hexachlorobutadiene	15.01	225	83850	23.83	ug/l	99
91) Naphthalene	15.13	128	135721	16.96	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	85854	16.52	ug/l	99

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



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

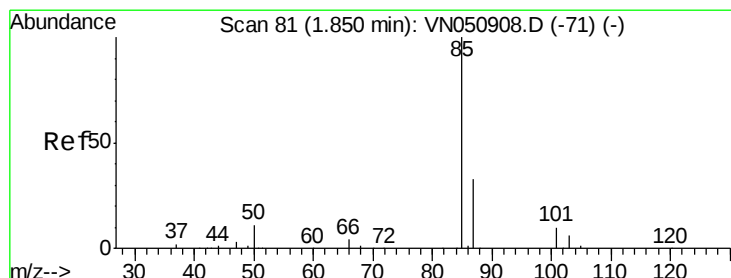
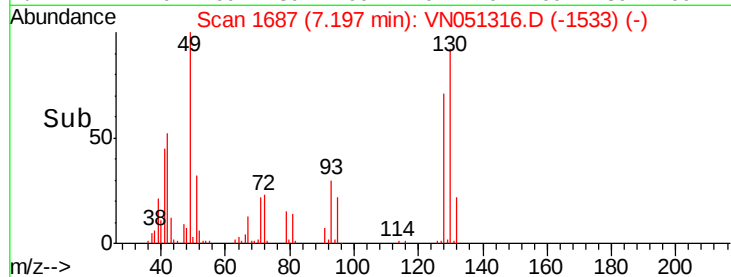
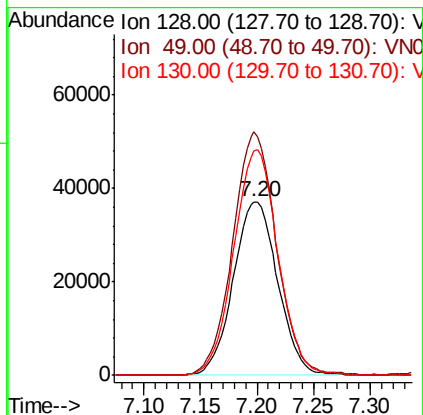
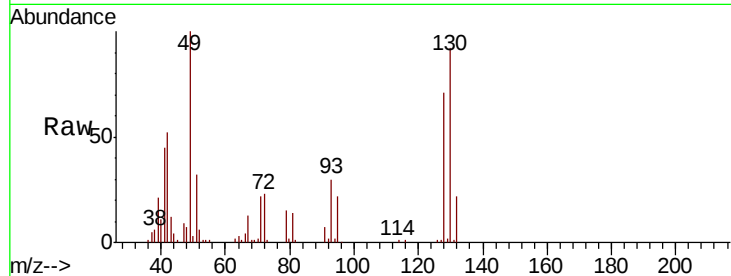
ClientSampleId :

VN0919WBSD01

Tot Ion:	128	Resp:	101428
Ion	Ratio	Lower	Upper
128	100		
49	138.3	0.0	380.3
130	129.7	0.0	325.3

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#2

Dichlorodifluoromethane

Concen: 17.47 ug/l

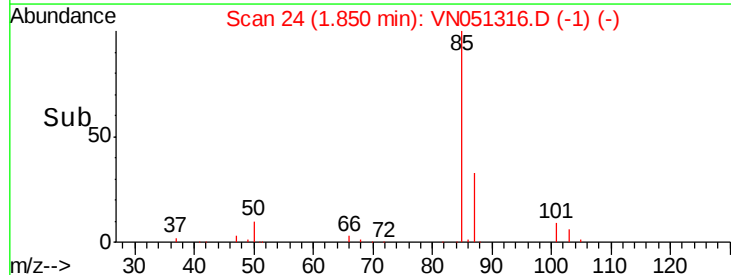
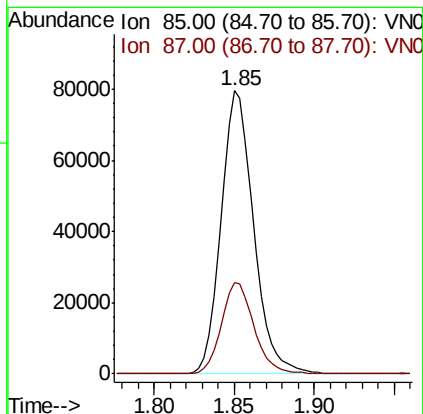
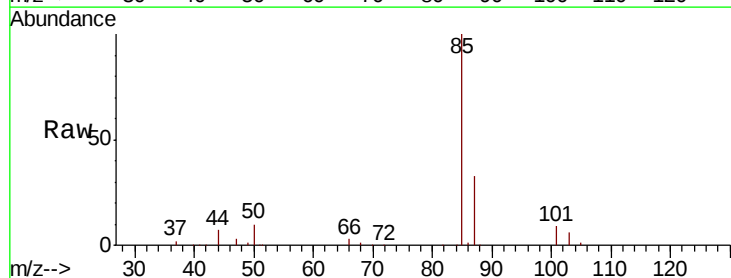
RT: 1.85 min Scan# 24

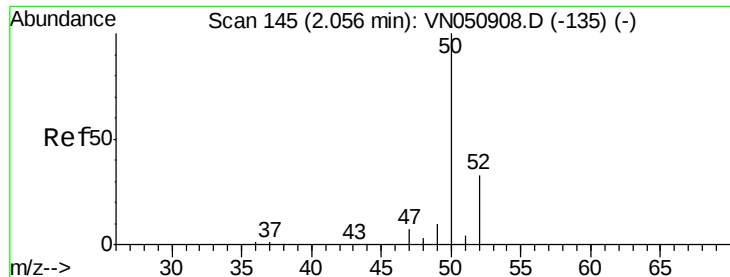
Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Tgt Ion:	85	Resp:	110056
Ion	Ratio	Lower	Upper
85	100		
87	32.5	16.4	49.1





#3

Chloromethane

Concen: 19.14 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

VN0919WBSD01

Tot Ion: 50 Resp: 142380

Ion Ratio Lower Upper

50 100

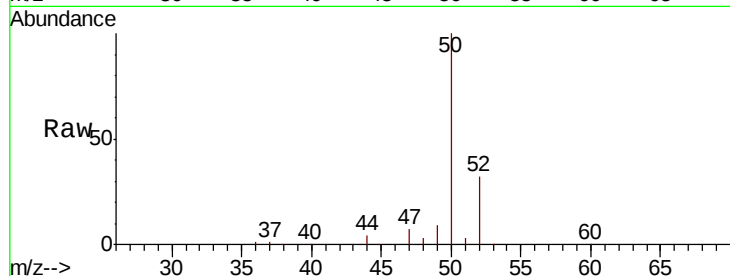
52 32.4 26.2 39.4

Manual Integrations

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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

120000

100000

80000

60000

40000

20000

0

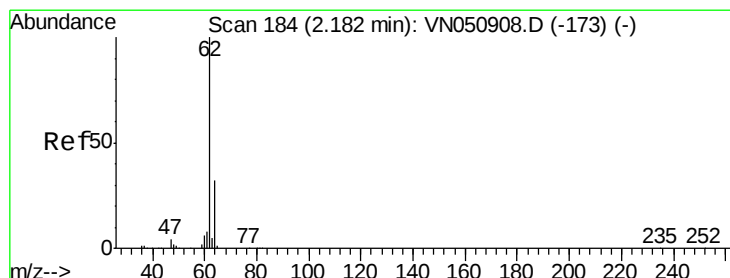
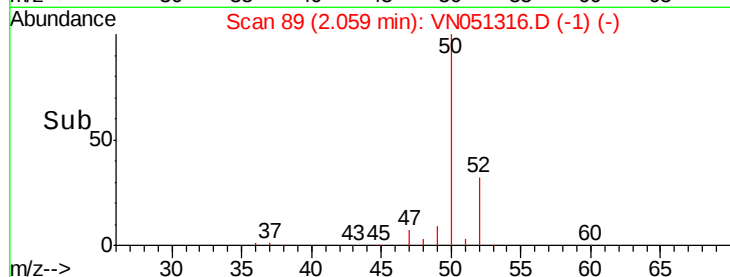
2.06

2.00

2.05

2.10

Time-->



#4

Vinyl Chloride

Concen: 19.65 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051316.D

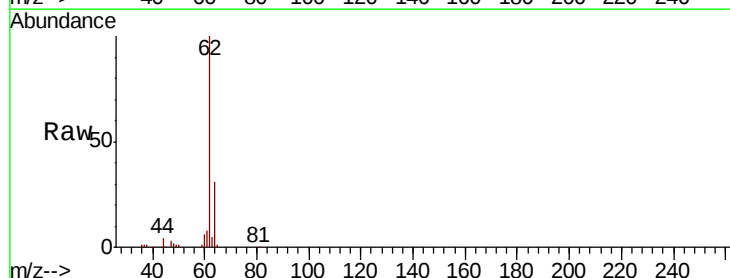
Acq: 19 Sep 2018 14:01

Tgt Ion: 62 Resp: 144375

Ion Ratio Lower Upper

62 100

64 30.9 25.4 38.0



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0

100000

80000

60000

40000

20000

0

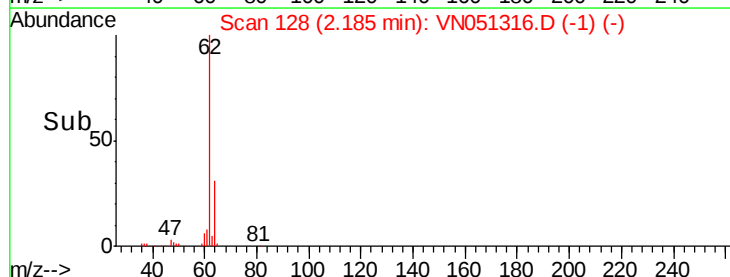
2.18

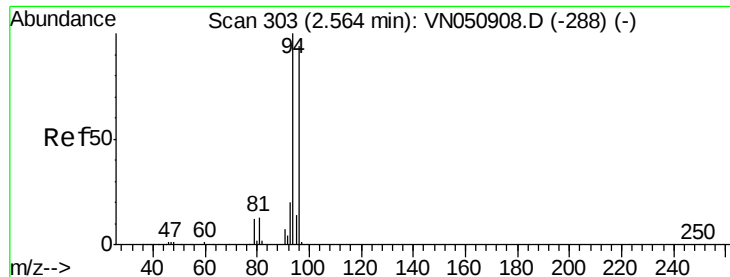
2.15

2.20

2.25

Time-->





#5

Bromomethane

Concen: 19.12 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

VN0919WBSD01

Tot Ion: 94 Resp: 85648

Ion Ratio Lower Upper

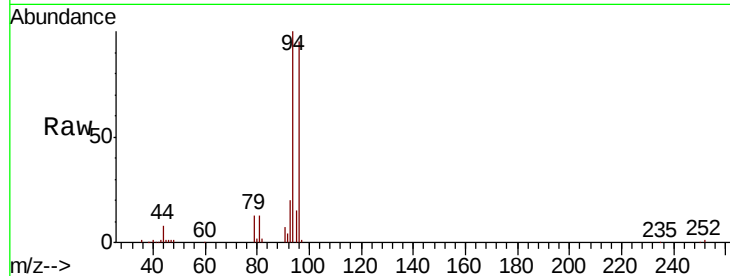
94 100

96 95.2 74.9 112.3

Manual Integrations
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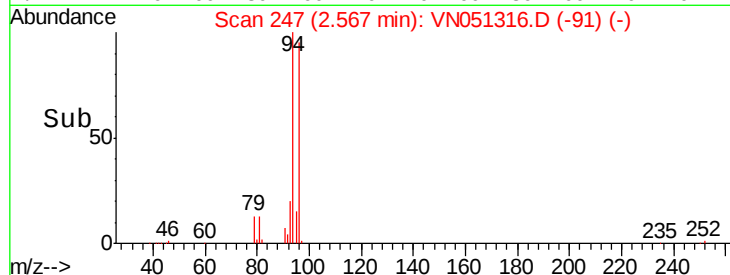


Abundance Ion 94.00 (93.70 to 94.70): VN050908.D (-288) (-)

Ion 96.00 (95.70 to 96.70): VN050908.D (-288) (-)

2.57

Time-->

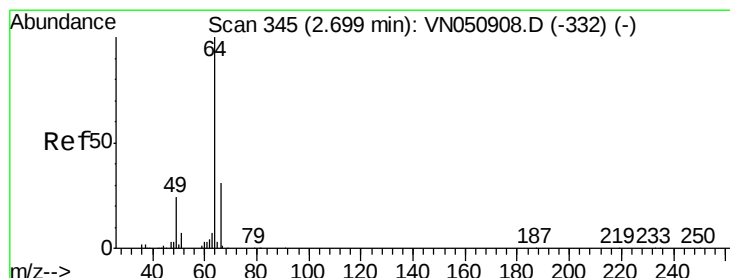


Abundance Ion 94.00 (93.70 to 94.70): VN051316.D (-91) (-)

Ion 96.00 (95.70 to 96.70): VN051316.D (-91) (-)

2.57

Time-->



#6

Chloroethane

Concen: 20.18 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051316.D

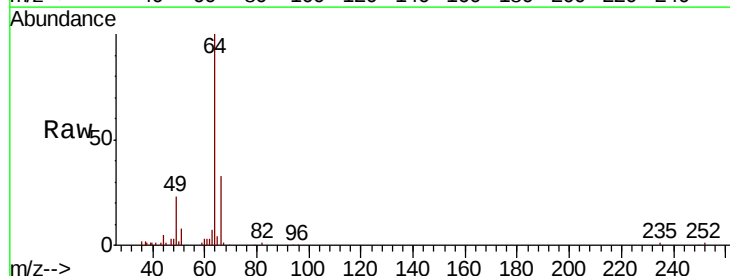
Acq: 19 Sep 2018 14:01

Tgt Ion: 64 Resp: 87476

Ion Ratio Lower Upper

64 100

66 33.1 24.5 36.7

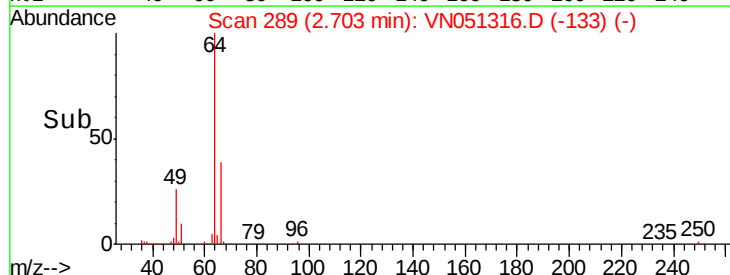


Abundance Ion 64.00 (63.70 to 64.70): VN050908.D (-332) (-)

Ion 66.00 (65.70 to 66.70): VN050908.D (-332) (-)

2.70

Time-->

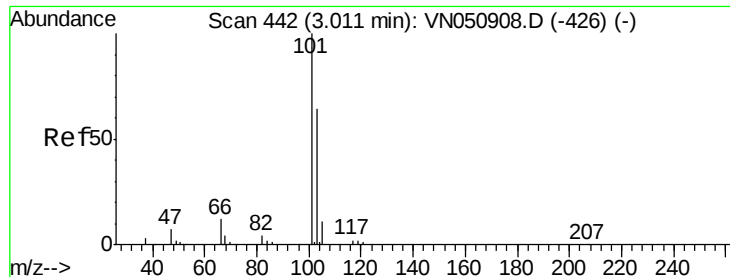


Abundance Ion 64.00 (63.70 to 64.70): VN051316.D (-133) (-)

Ion 66.00 (65.70 to 66.70): VN051316.D (-133) (-)

2.70

Time-->



#7

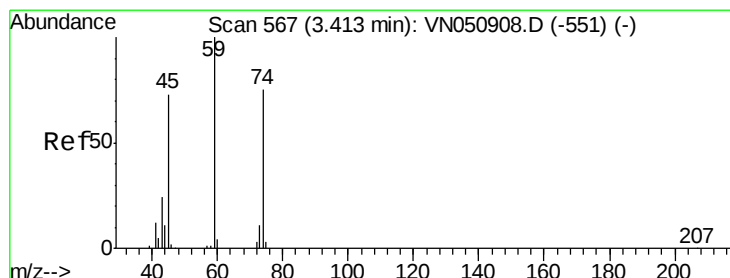
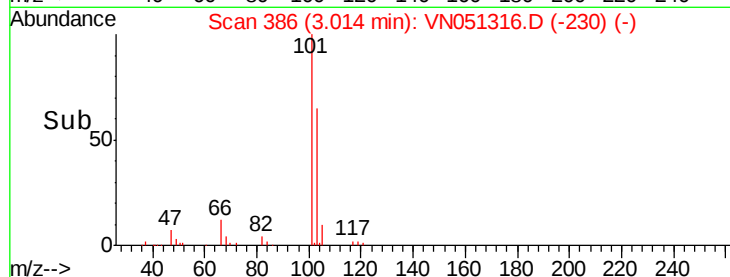
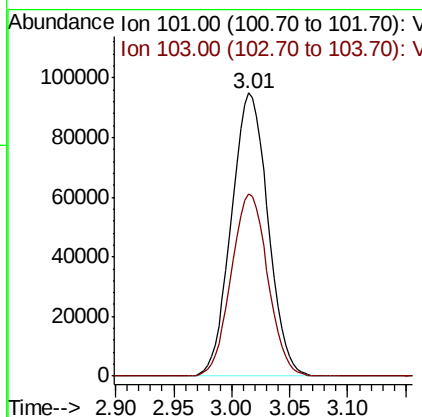
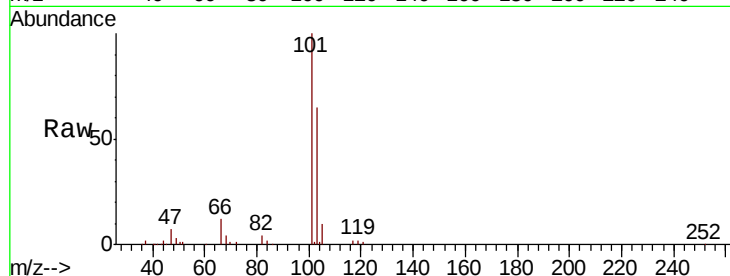
Trichlorofluoromethane
 Concen: 21.35 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	208040		
103	103	64.6		51.3	76.9

Manual Integrations
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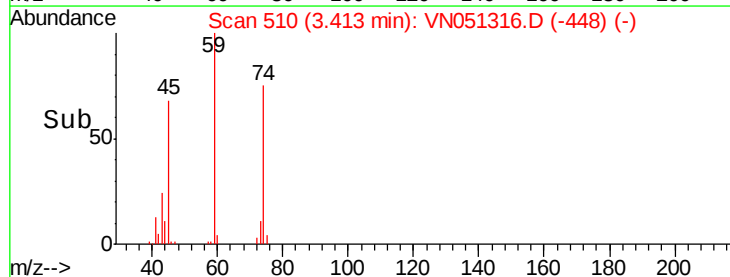
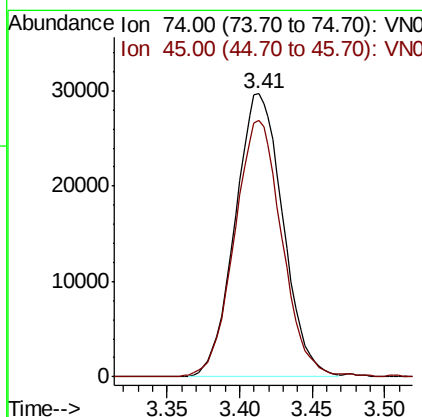
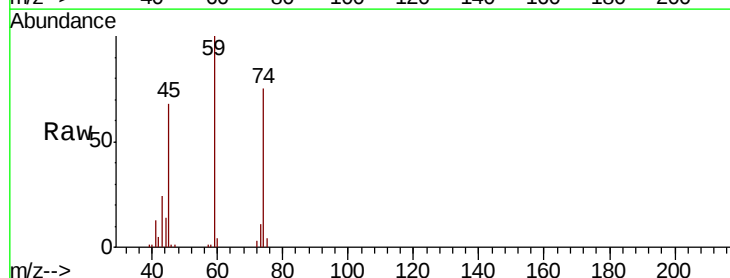
MMDadoda
 9/20/2018 1:42:08 PM

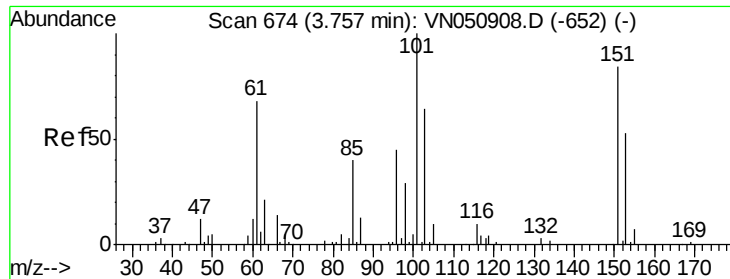


#8

Diethyl Ether
 Concen: 19.79 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	74	100	67973		
45	45	89.8		19.7	177.1





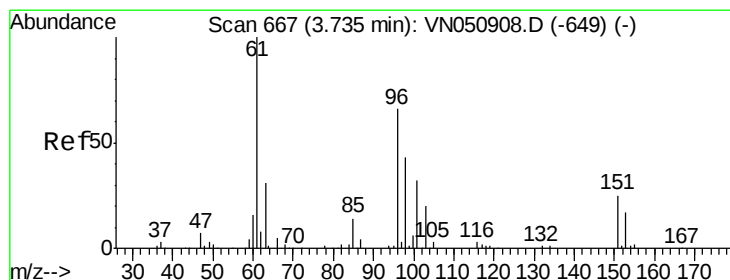
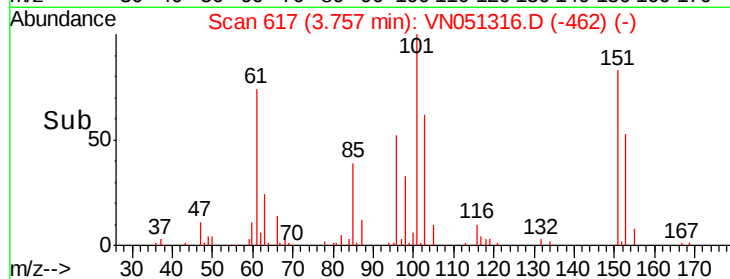
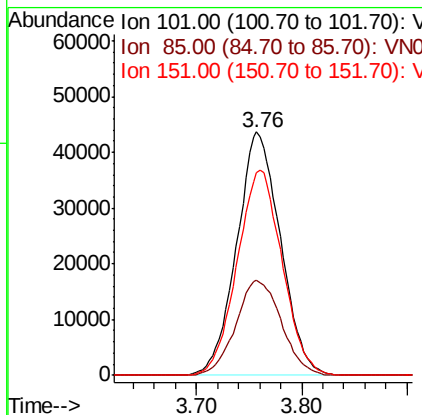
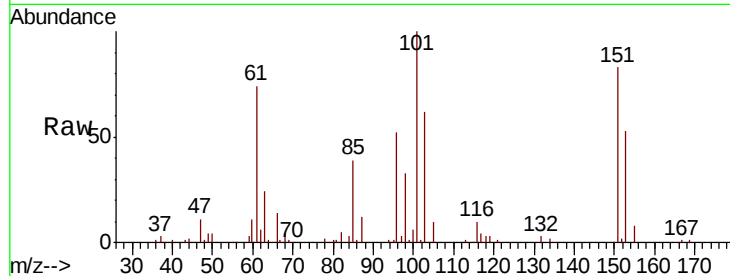
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.86 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

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 MSVOA_N
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 VN0919WBSD01

Tot Ion	Ratio	Resp Lower	Upper
101	100		
85	40.6	0.0	83.6
151	86.7	0.0	167.0

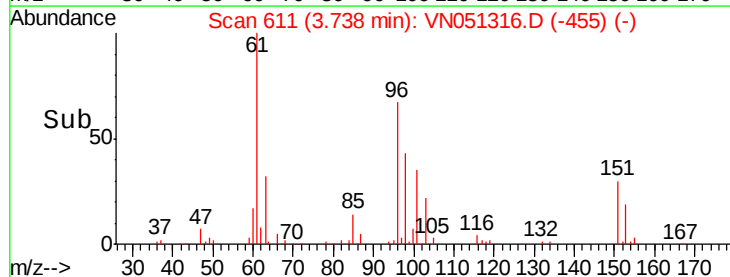
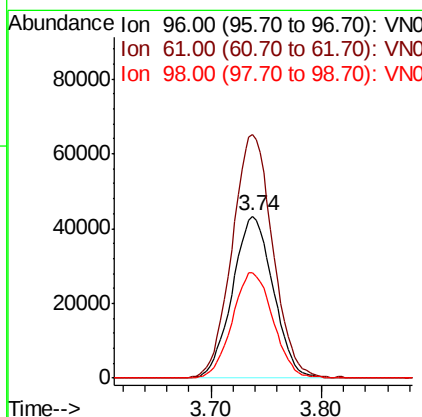
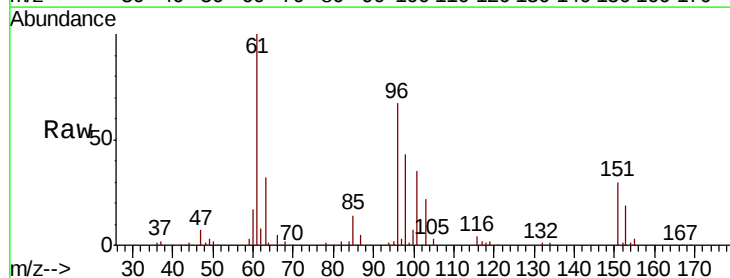
Manual Integrations
 APPROVED

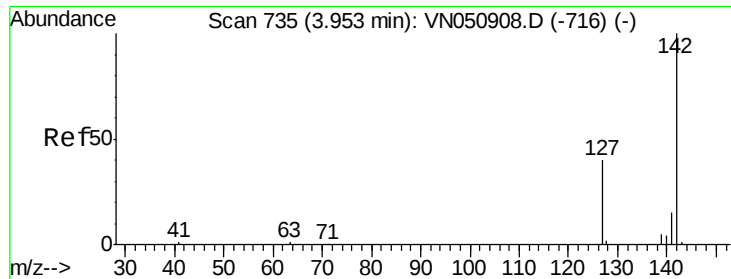
MMDadoda
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#10
 1,1-Dichloroethene
 Concen: 20.23 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Resp Lower	Upper
96	100		
61	149.8	121.8	182.8
98	65.3	52.3	78.5





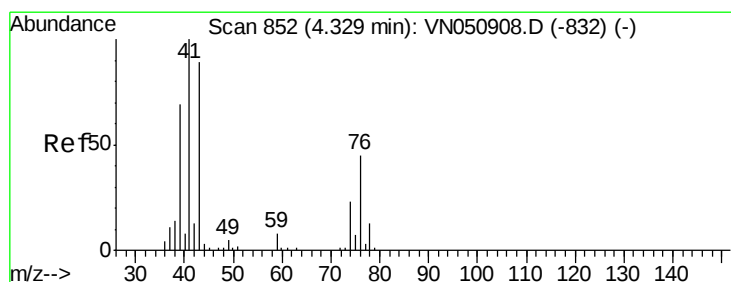
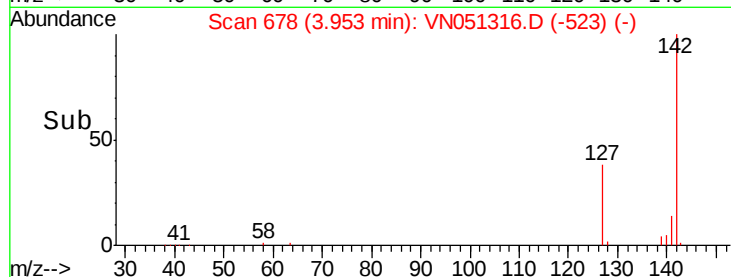
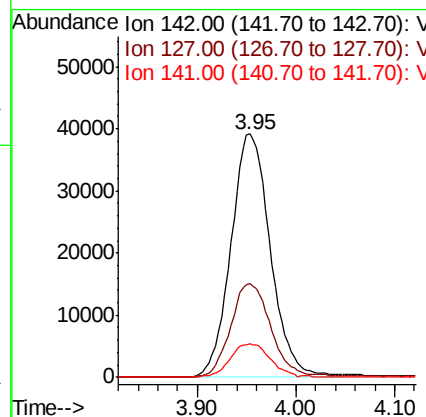
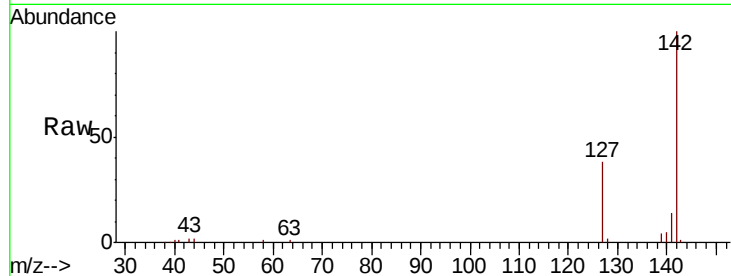
#11
Methvl Iodide
Concen: 21.35 ug/l
RT: 3.95 min Scan# 678
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.1	19.7	59.1
141	13.7	7.3	22.0

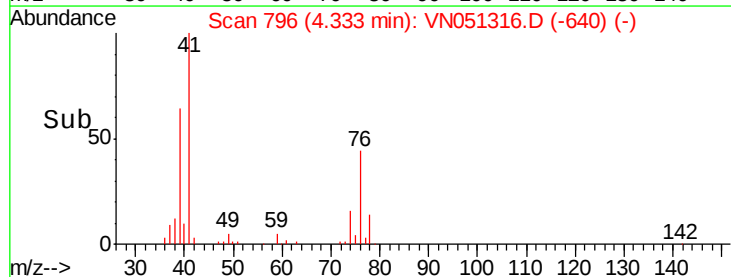
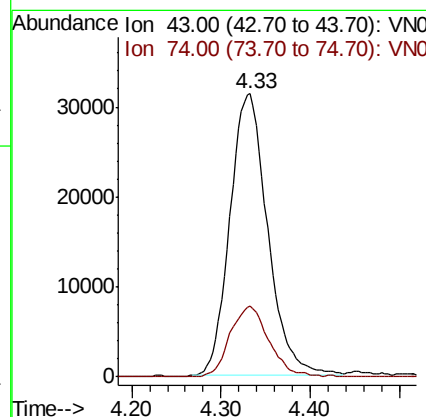
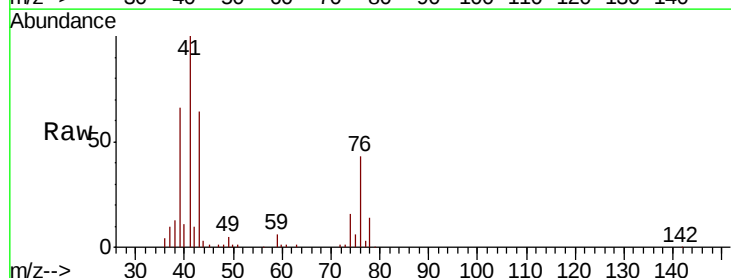
Manual Integrations
APPROVED

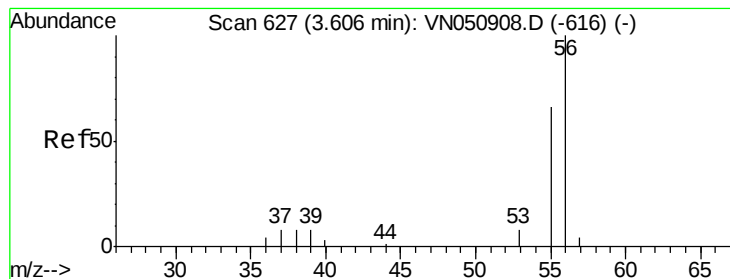
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#12
Methyl Acetate
Concen: 14.51 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.3	20.6	31.0





#13

Acrolein

Concen: 228.76 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

VN0919WBSD01

Tot Ion: 56 Resp: 32102

Ion Ratio Lower Upper

56 100

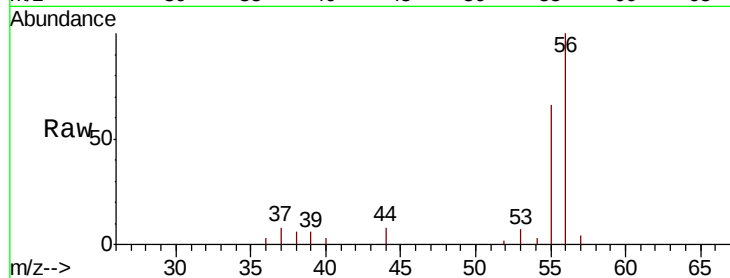
55 70.3 59.1 88.7

Manual Integrations

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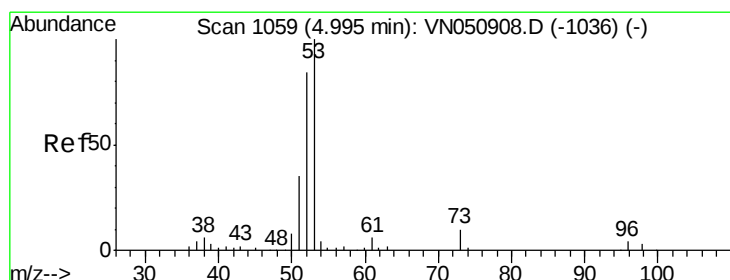
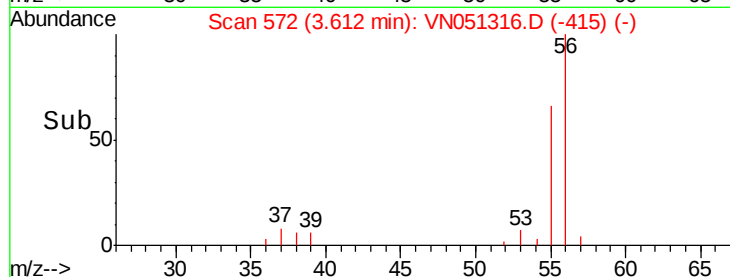
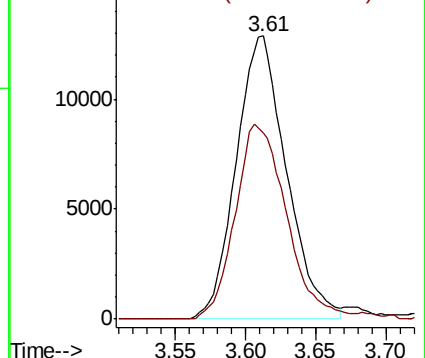
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Abundance Ion 56.00 (55.70 to 56.70): VN051316.D (-415) (-)

Ion 55.00 (54.70 to 55.70): VN051316.D (-415) (-)



#14

Acrylonitrile

Concen: 86.70 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

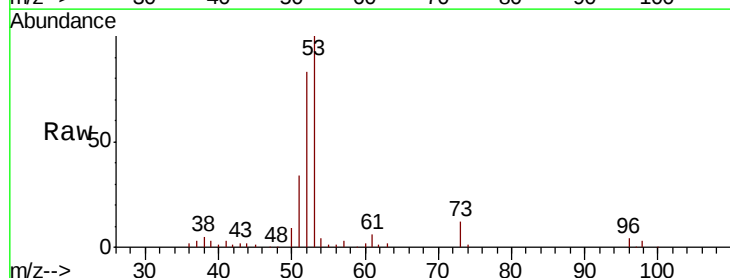
Tgt Ion: 53 Resp: 185776

Ion Ratio Lower Upper

53 100

52 84.0 42.2 126.6

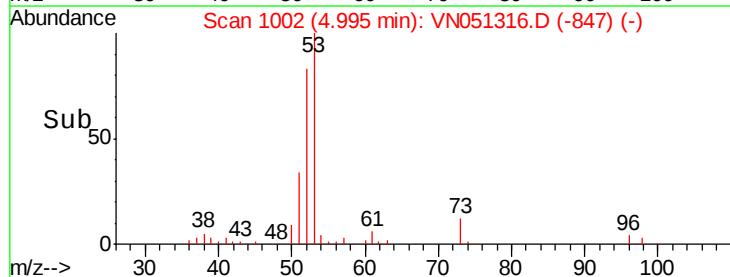
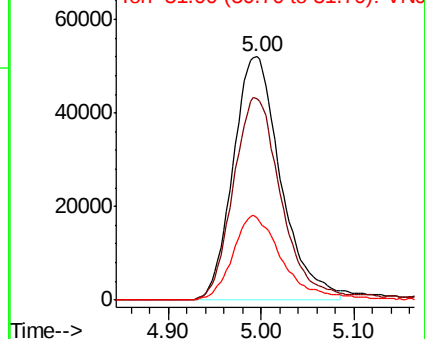
51 35.8 17.7 53.1

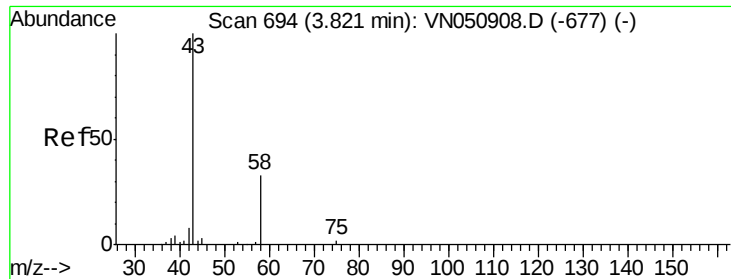


Abundance Ion 53.00 (52.70 to 53.70): VN051316.D (-847) (-)

Ion 52.00 (51.70 to 52.70): VN051316.D (-847) (-)

Ion 51.00 (50.70 to 51.70): VN051316.D (-847) (-)





#15

Acetone

Concen: 83.70 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

VN0919WBSD01

Tot Ion: 58 Resp: 45895

Ion Ratio Lower Upper

58 100

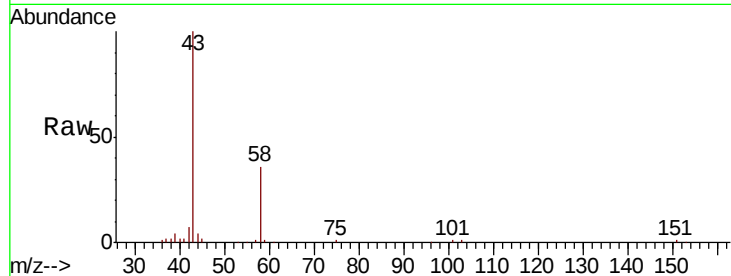
43 275.8 239.4 359.0

Manual Integrations

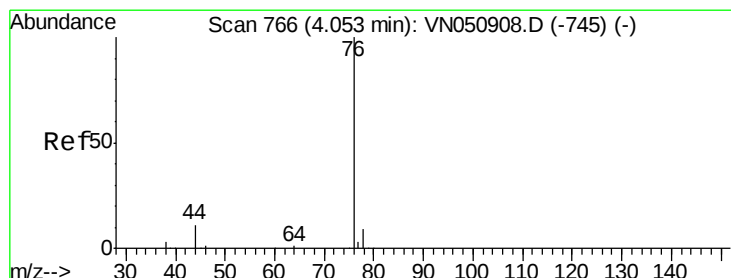
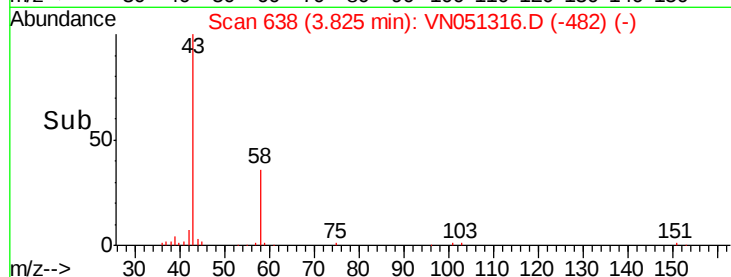
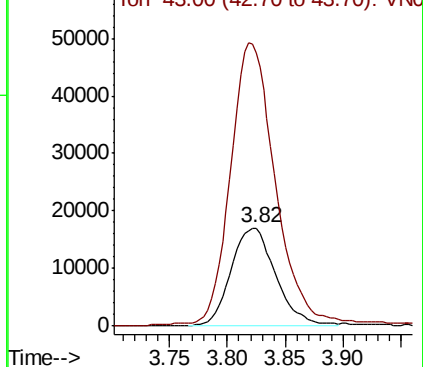
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Abundance Ion 58.00 (57.70 to 58.70): VN051316.D (-482) (-)



#16

Carbon Disulfide

Concen: 20.00 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN051316.D

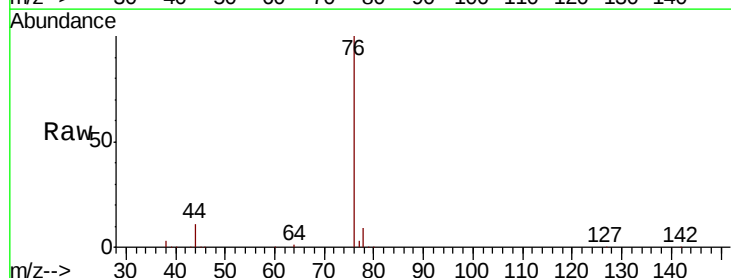
Acq: 19 Sep 2018 14:01

Tgt Ion: 76 Resp: 329520

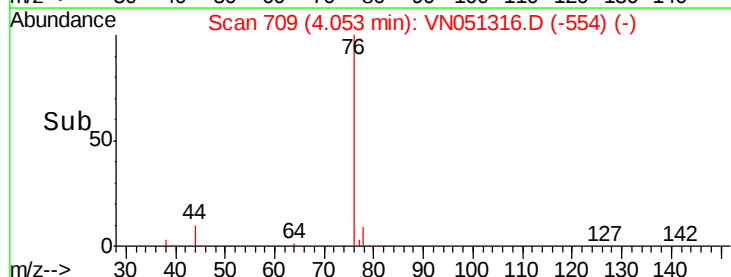
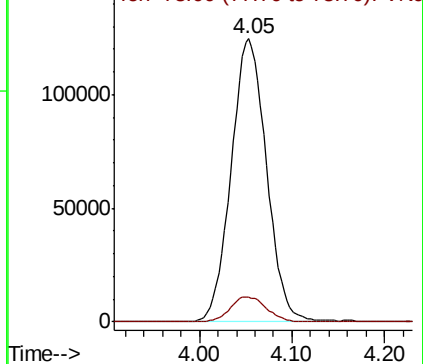
Ion Ratio Lower Upper

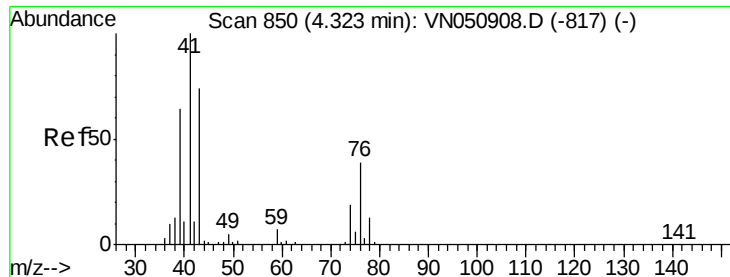
76 100

78 8.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN051316.D (-554) (-)





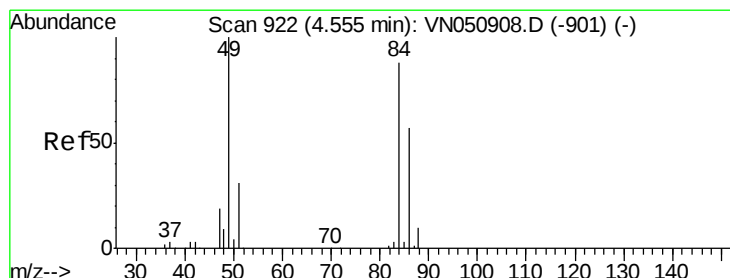
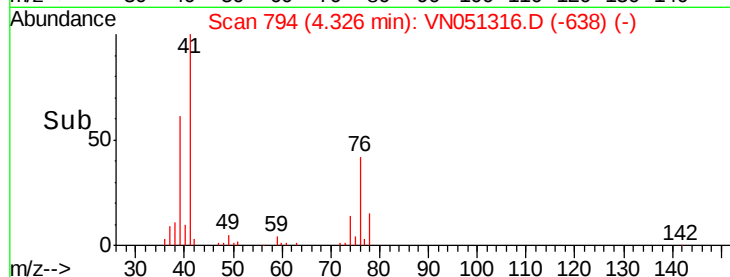
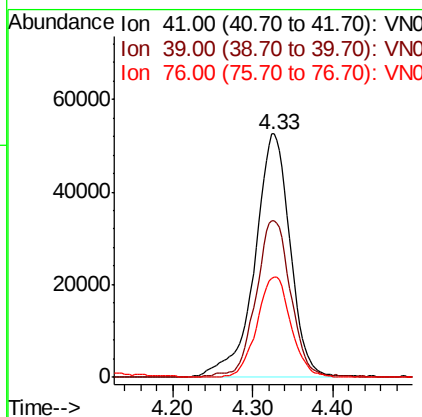
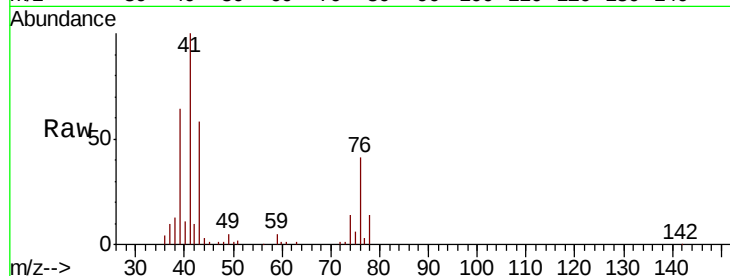
#17
Allvl chloride
Concen: 18.60 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion:	41	Resp:	160383
Ion	Ratio	Lower	Upper
41	100		
39	64.3	32.2	96.6
76	40.8	19.6	58.7

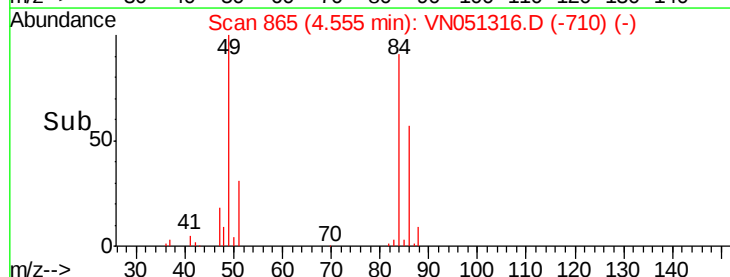
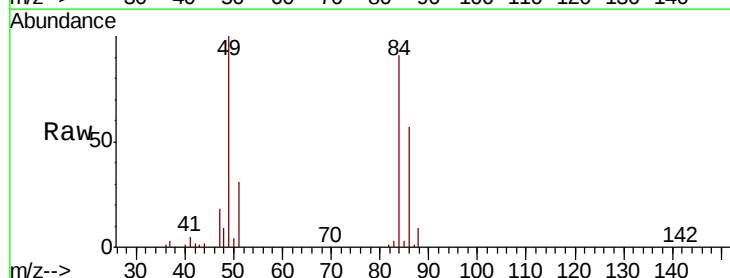
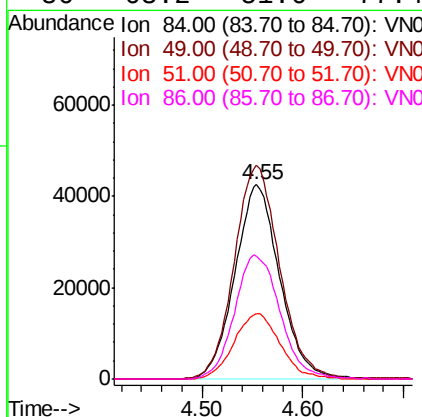
Manual Integrations
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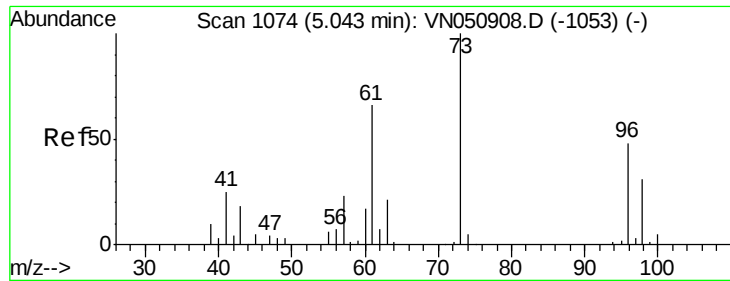
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#18
Methylene Chloride
Concen: 20.34 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion:	84	Resp:	130863
Ion	Ratio	Lower	Upper
84	100		
49	109.4	90.6	135.8
51	33.7	28.4	42.6
86	63.2	51.6	77.4





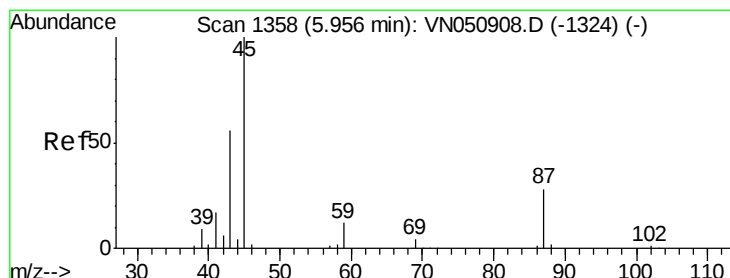
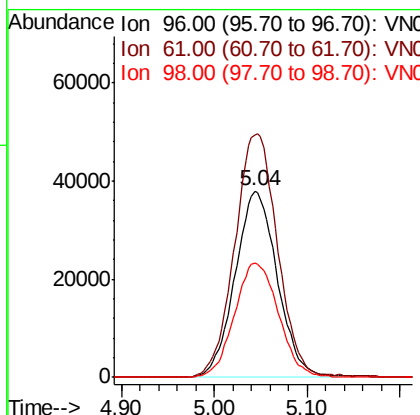
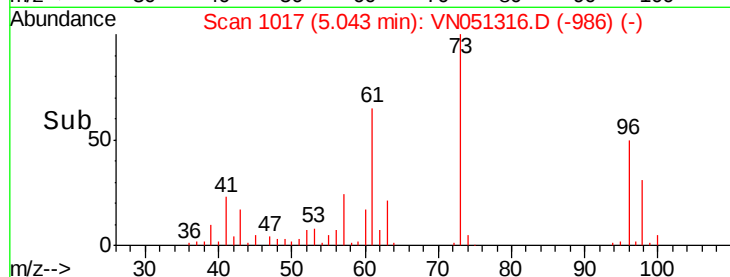
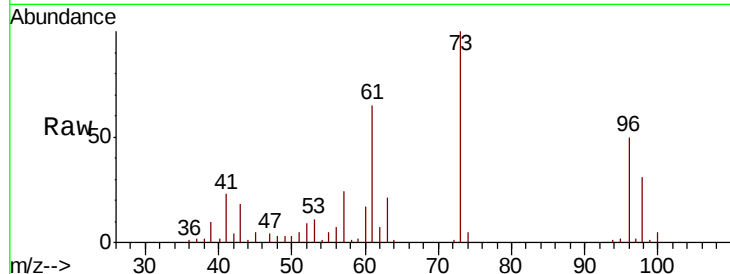
#19
trans-1,2-Dichloroethene
Concen: 20.50 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.5	109.5	164.3
98	61.6	51.9	77.9

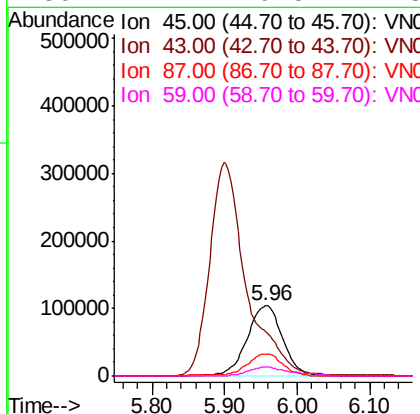
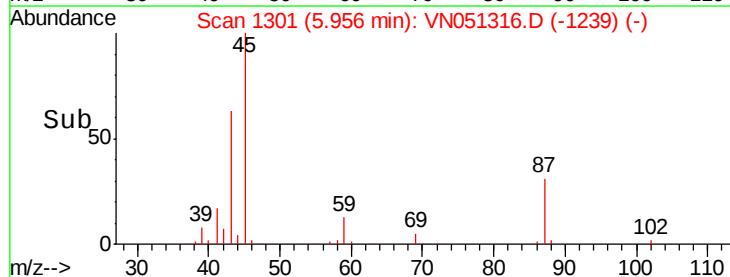
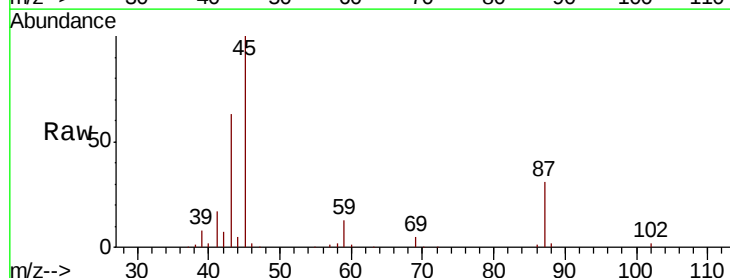
Manual Integrations
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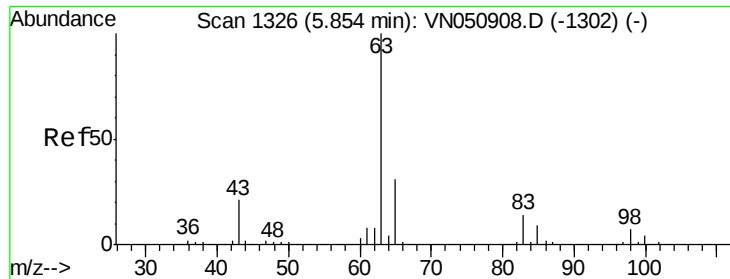
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#20
Diisopropyl ether
Concen: 19.77 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.1	47.0	70.6
87	31.5	22.8	34.2
59	12.2	9.5	14.3





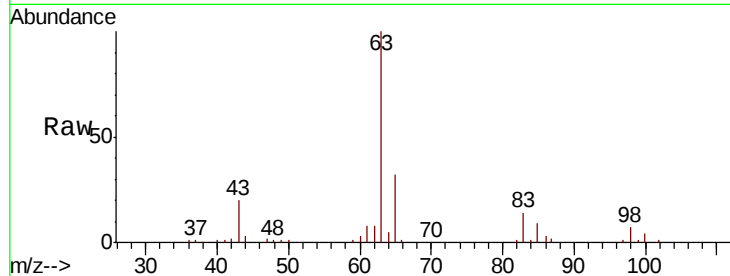
#21
 1,1-Dichloroethane
 Concen: 19.95 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

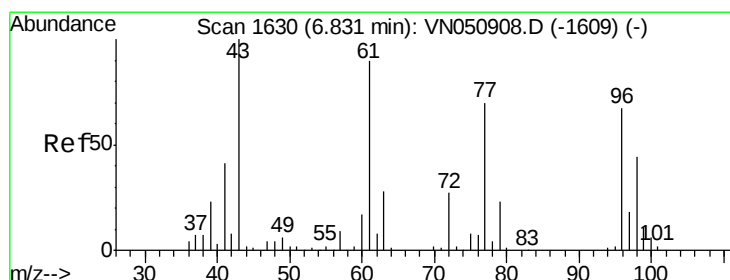
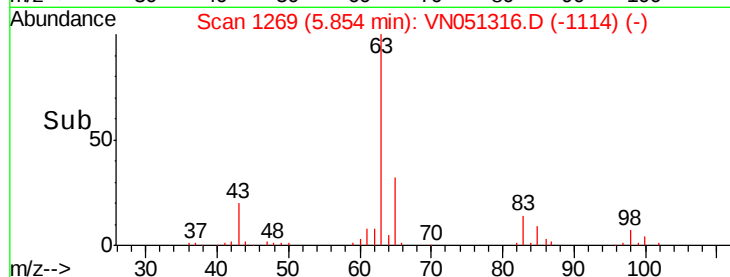
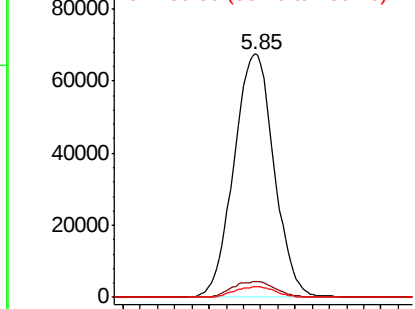
Tot Ion	Ratio	Resp	Lower	Upper
63	100	218967		
98	6.6	3.3	9.9	
100	4.4	2.0	6.0	

Manual Integrations
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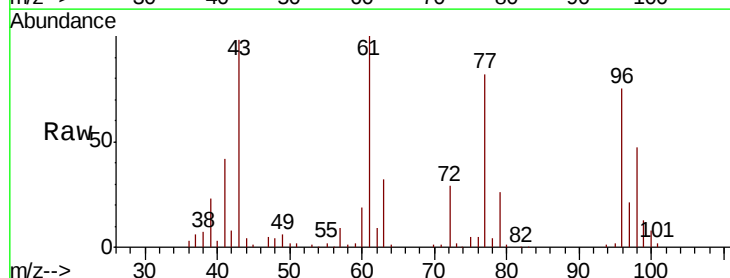


Abundance Ion 63.00 (62.70 to 63.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0

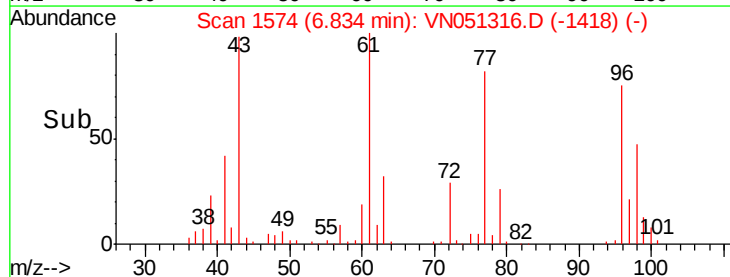
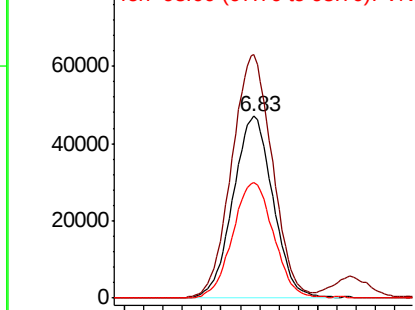


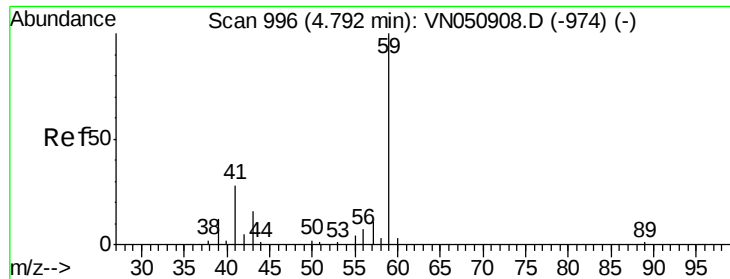
#22
 cis-1,2-Dichloroethene
 Concen: 20.54 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	135497		
61	135.9	110.0	165.0	
98	65.0	51.7	77.5	



Abundance Ion 96.00 (95.70 to 96.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0





#23

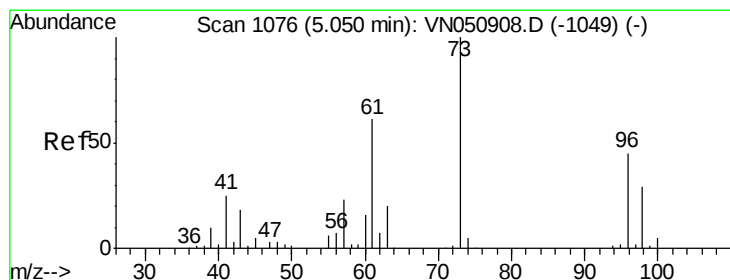
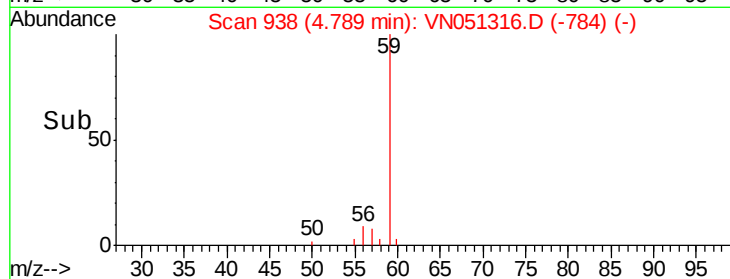
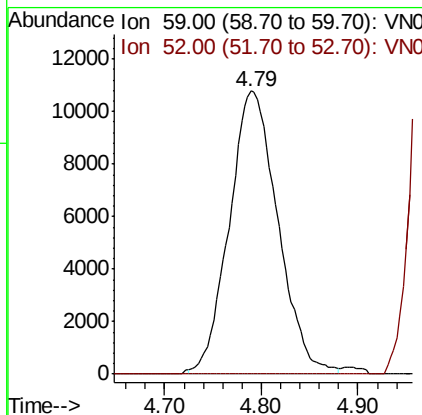
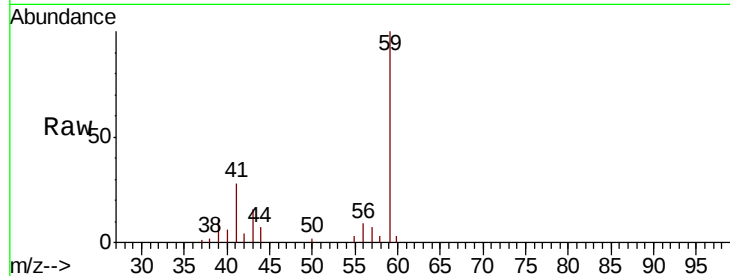
tert-Butyl Alcohol
 Concen: 82.68 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion: 59 Resp: 37676
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

Manual Integrations
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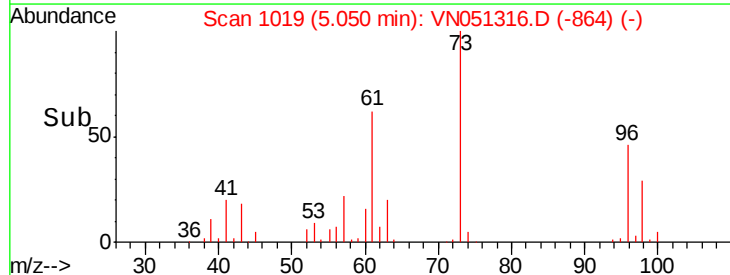
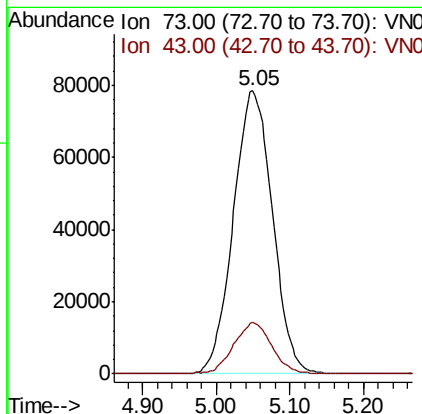
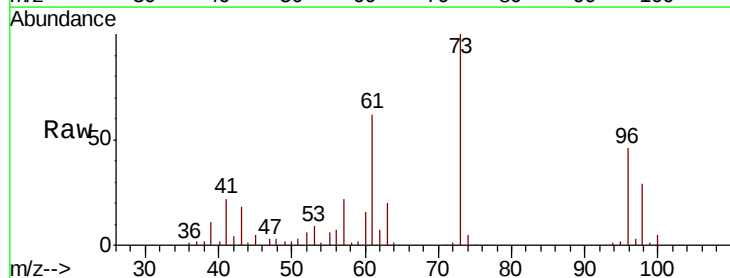
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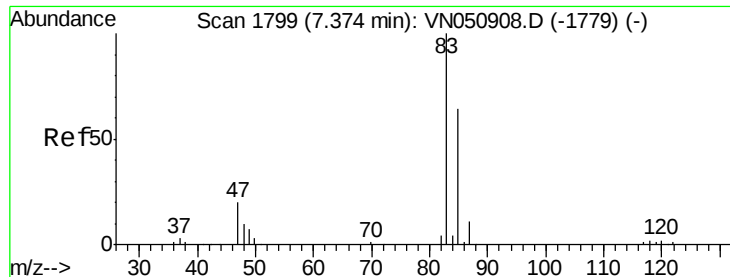


#24

Methyl tert-Butyl Ether
 Concen: 19.38 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion: 73 Resp: 290506
 Ion Ratio Lower Upper
 73 100
 43 17.3 14.4 21.6





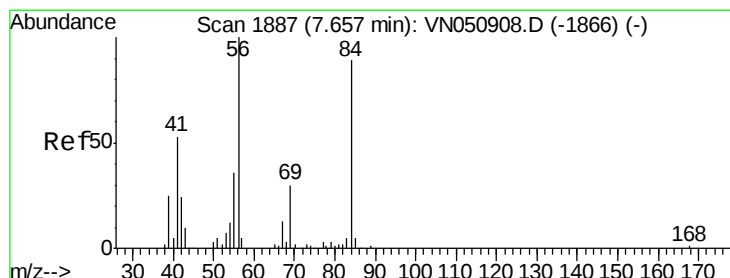
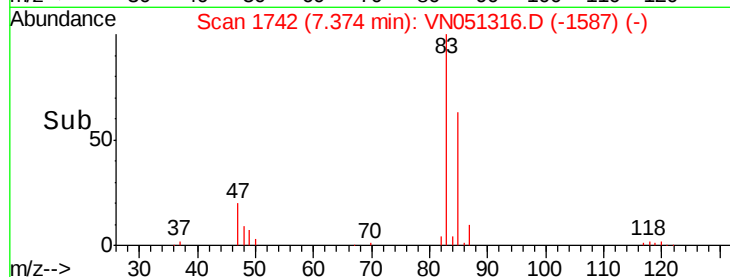
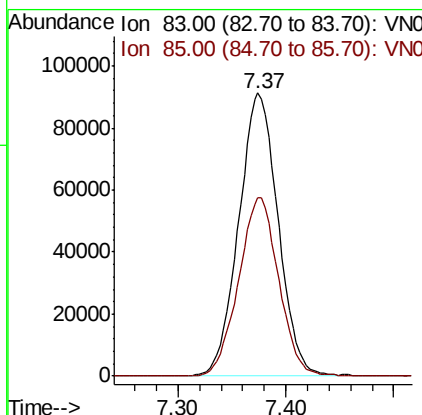
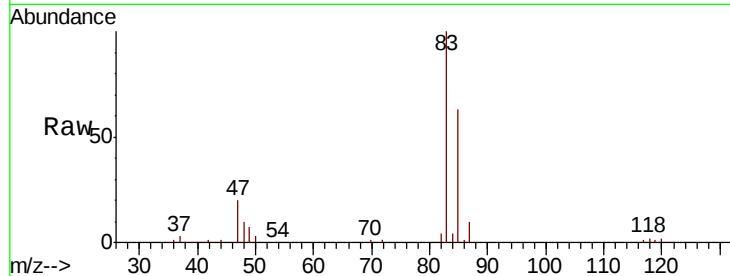
#25
Chloroform
Concen: 21.15 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	83	Resp	231640
Ion Ratio	100	Lower	Upper
83	100		
85	63.1	51.4	77.0

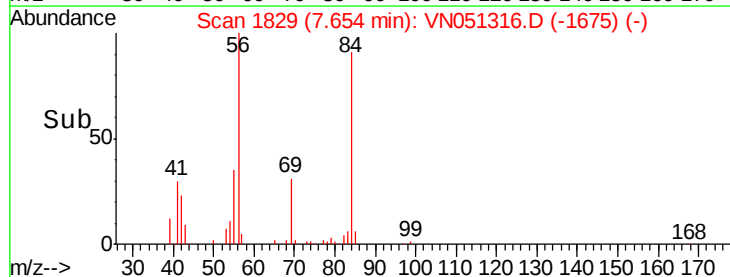
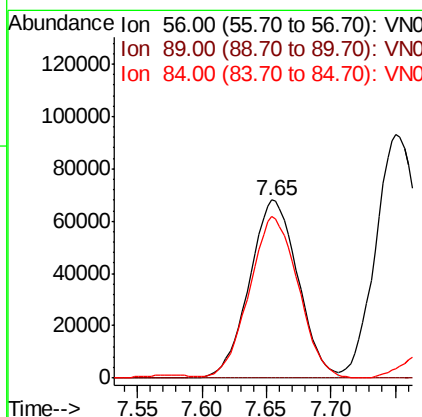
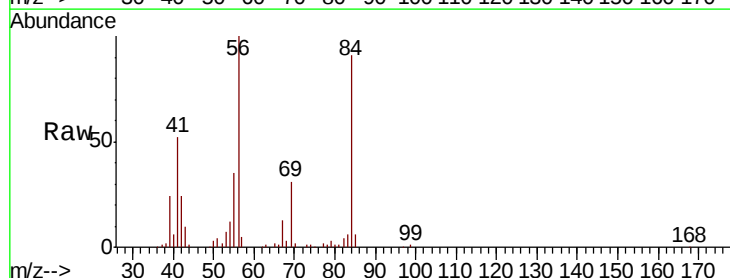
Manual Integrations
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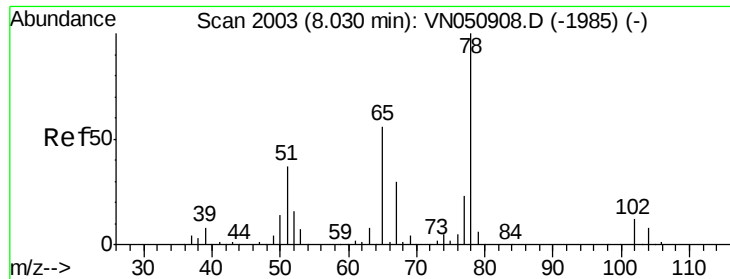
MMDadoda
9/20/2018 1:42:08 PM



#26
Cyclohexane
Concen: 19.65 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	56	Resp	178637
Ion Ratio	100	Lower	Upper
56	100		
89	0.1	0.4	0.6#
84	91.6	70.4	105.6





#27

1,2-Dichloroethane-d4

Concen: 28.82 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

VN0919WBSD01

Tot Ion: 65 Resp: 186530

Ion Ratio Lower Upper

65 100

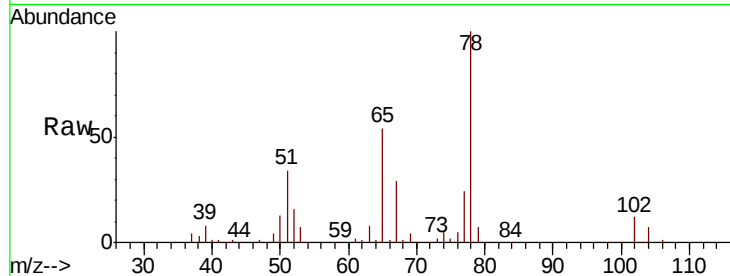
67 54.6 43.7 65.5

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Abundance Ion 65.00 (64.70 to 65.70): VN051316.D (-1946) (-)

Ion 67.00 (66.70 to 67.70): VN051316.D (-1946) (-)

8.03

80000

60000

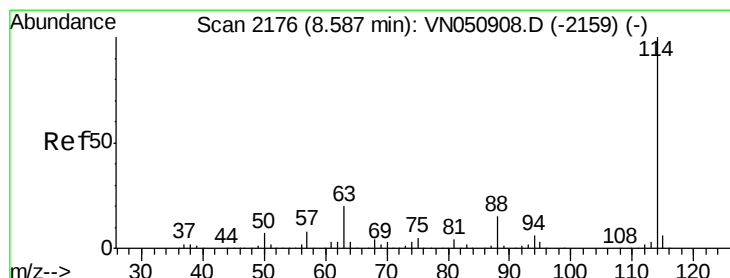
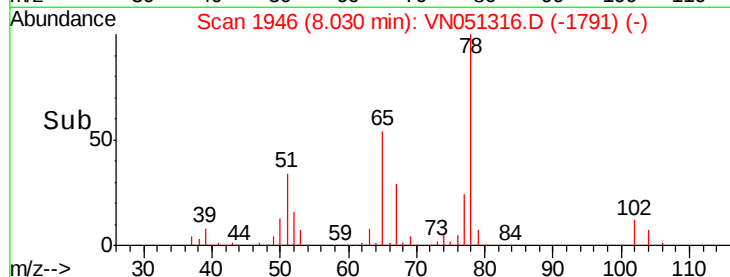
40000

20000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

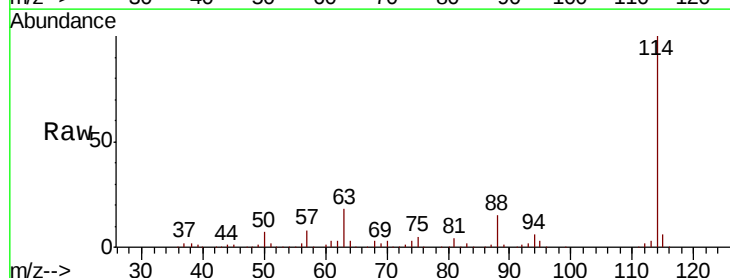
Tgt Ion: 114 Resp: 542347

Ion Ratio Lower Upper

114 100

63 18.5 15.6 23.4

88 15.3 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051316.D (-1964) (-)

Ion 63.00 (62.70 to 63.70): VN051316.D (-1964) (-)

Ion 88.00 (87.70 to 88.70): VN051316.D (-1964) (-)

8.59

300000

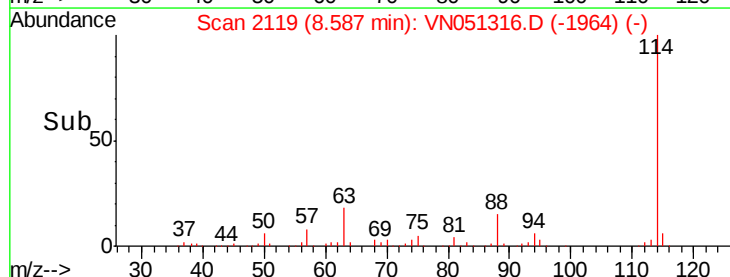
200000

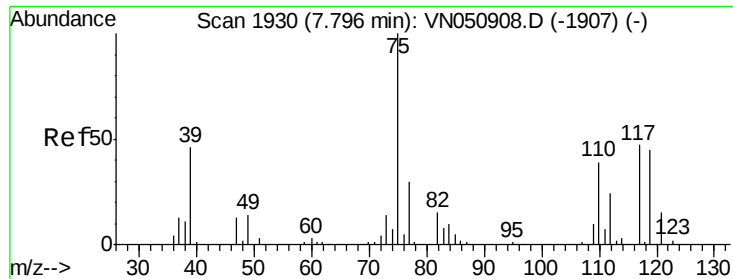
100000

0

8.50 8.60 8.70

Time-->





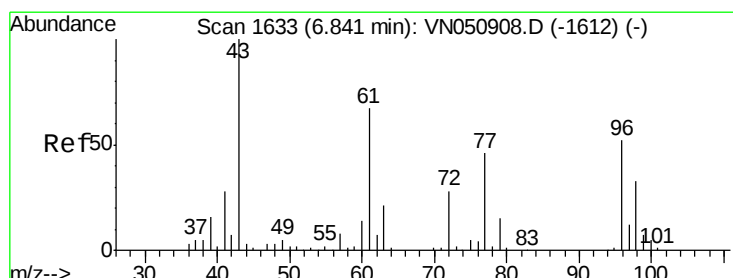
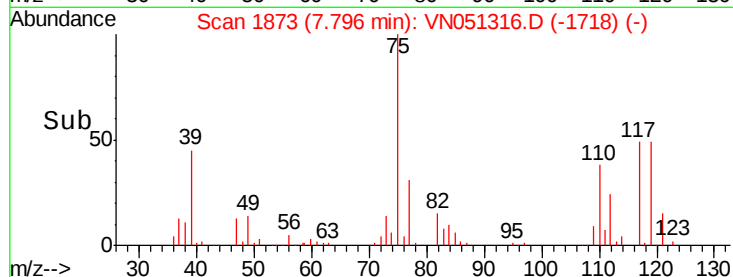
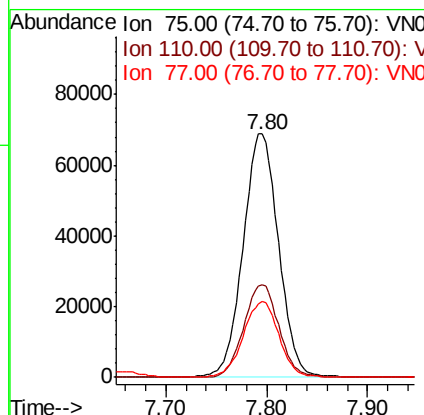
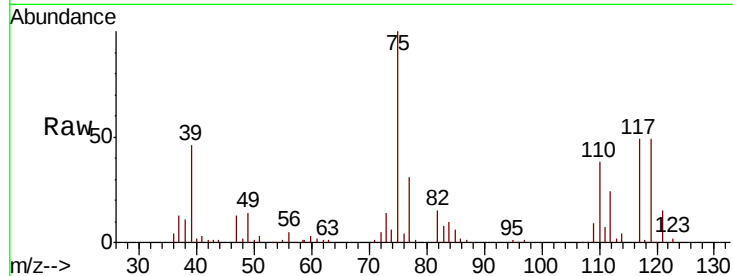
#29
 1,1-Dichloropropene
 Concen: 20.48 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
75	100	166277		
110	38.0	0.0	75.0	
77	31.8	0.0	60.6	

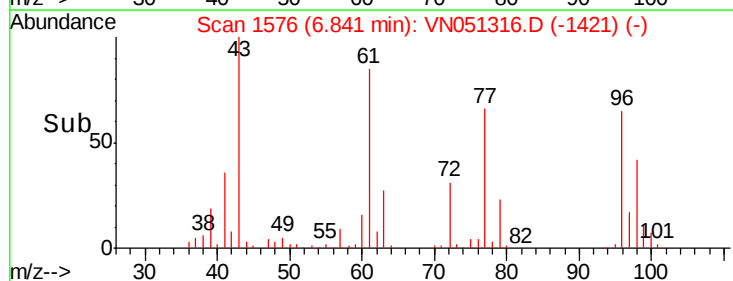
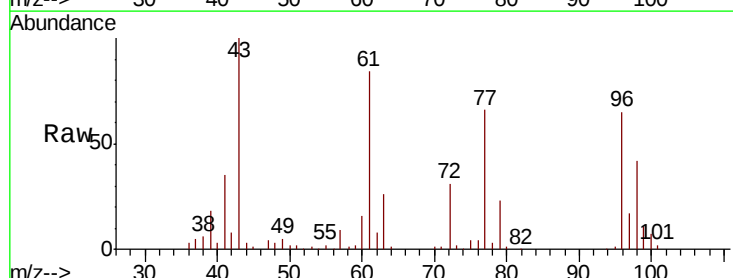
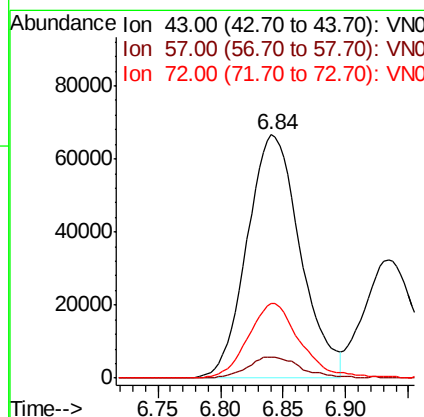
Manual Integrations
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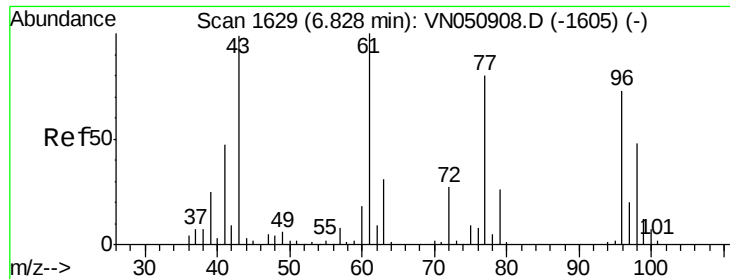
MMDadoda
 9/20/2018 1:42:08 PM



#30
 2-Butanone
 Concen: 78.52 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	196136		
57	8.7	6.9	10.3	
72	30.0	22.8	34.2	





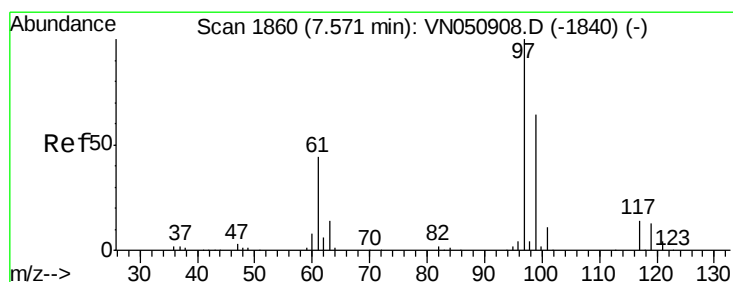
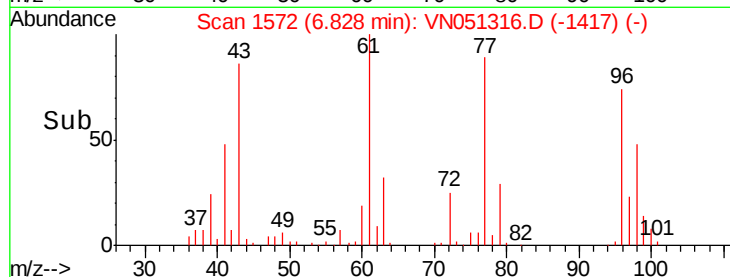
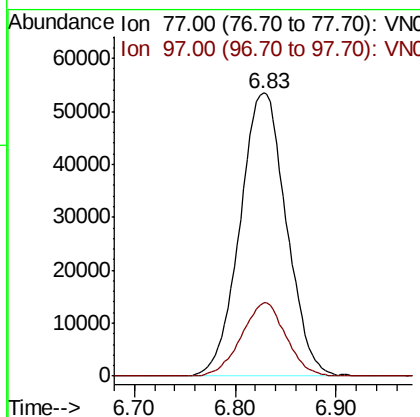
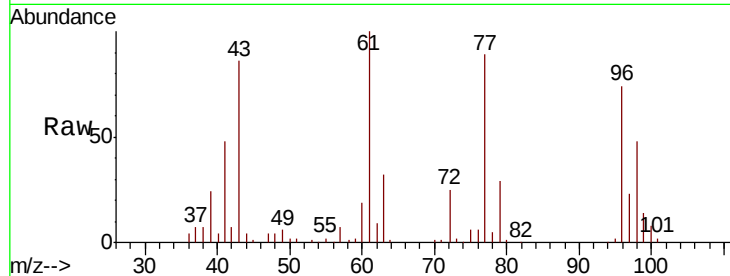
#31
 2,2-Dichloropropane
 Concen: 21.60 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion: 77 Resp: 170618
 Ion Ratio Lower Upper
 77 100
 97 24.8 20.2 30.2

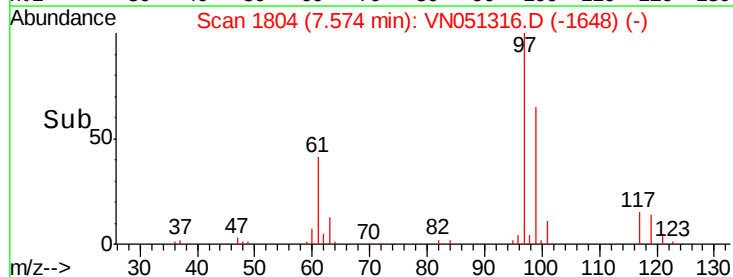
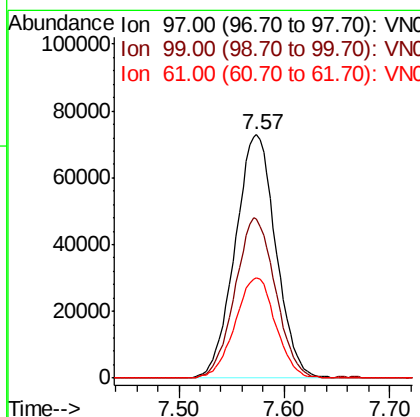
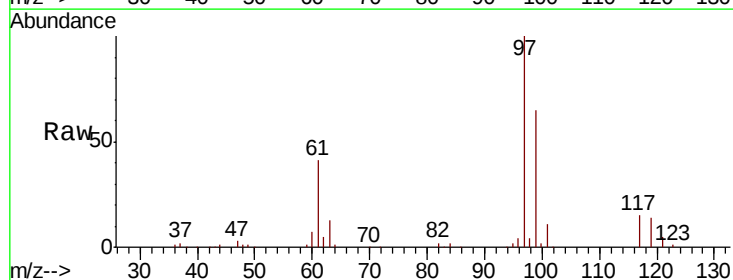
Manual Integrations
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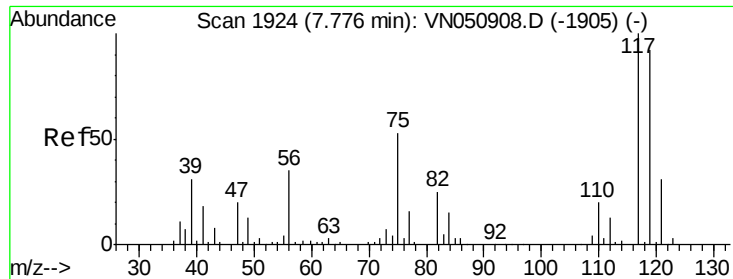
MMDadoda
 9/20/2018 1:42:08 PM



#32
 1,1,1-Trichloroethane
 Concen: 21.24 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion: 97 Resp: 195558
 Ion Ratio Lower Upper
 97 100
 99 65.3 52.0 78.0
 61 41.0 35.0 52.6





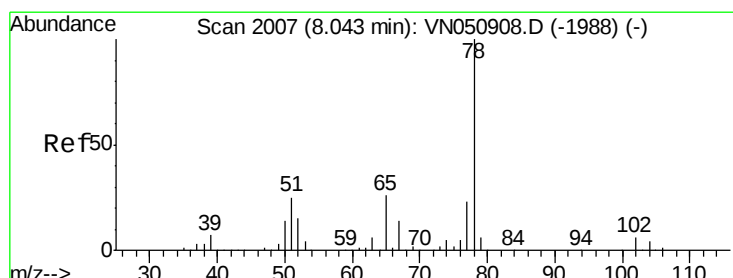
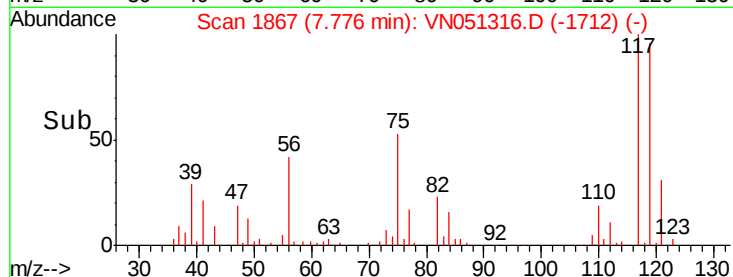
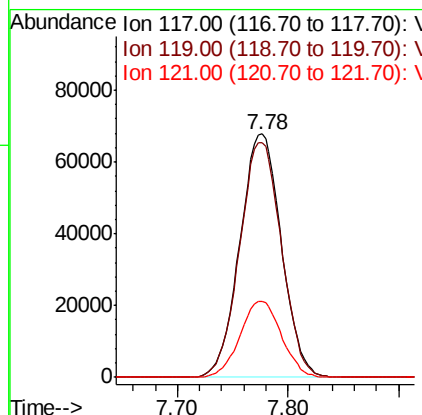
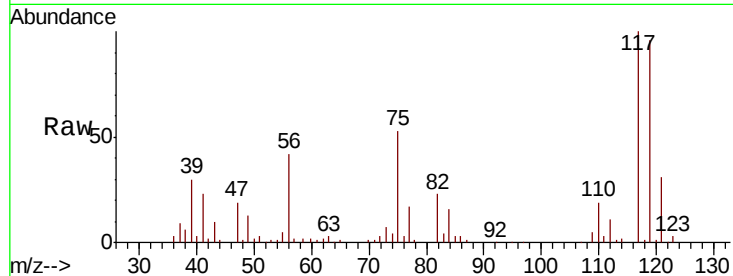
#33
Carbon Tetrachloride
Concen: 21.32 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.3	73.5	110.3
121	31.1	24.6	37.0

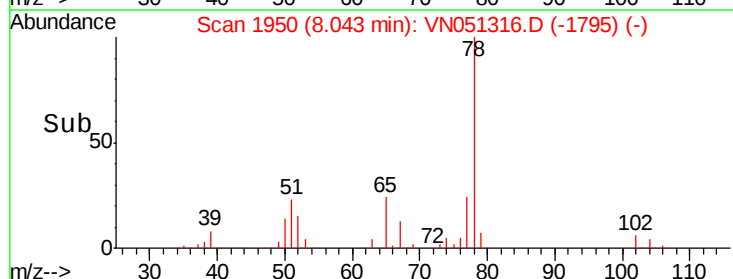
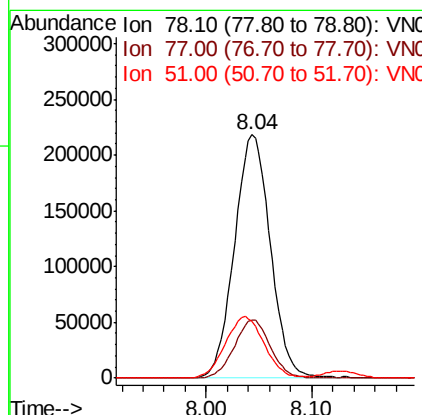
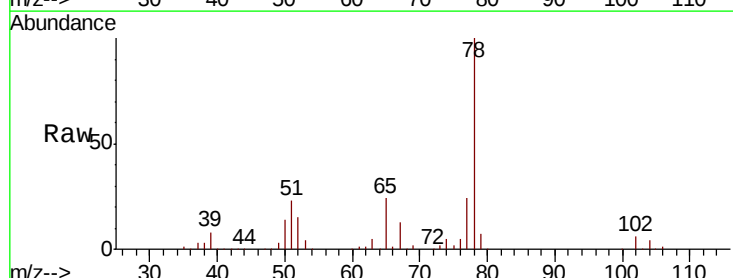
Manual Integrations
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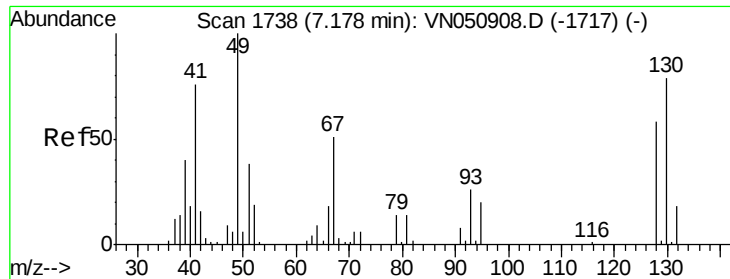
MMDadoda
9/20/2018 1:42:08 PM



#34
Benzene
Concen: 20.59 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0
51	23.0	20.0	30.0





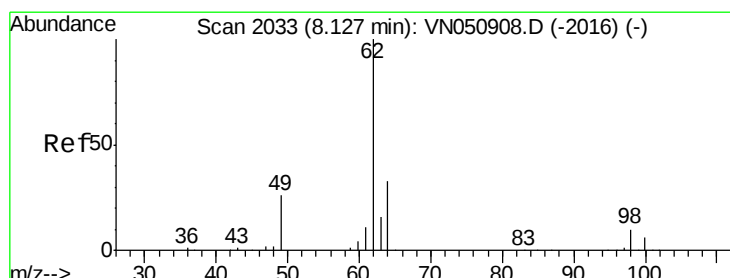
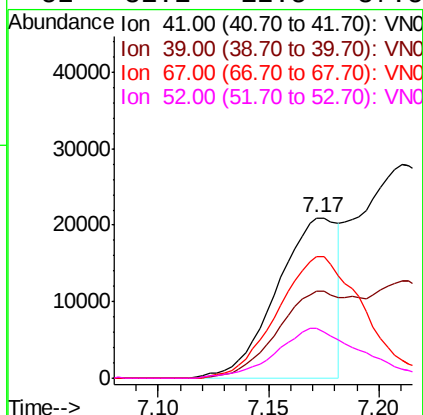
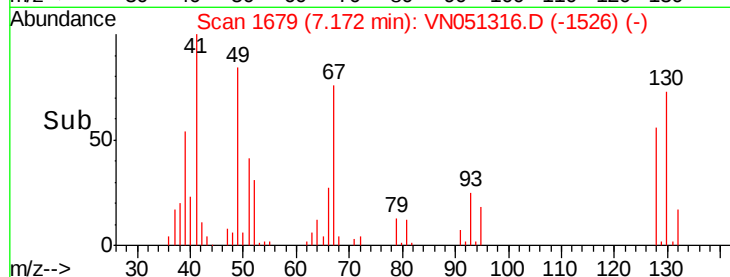
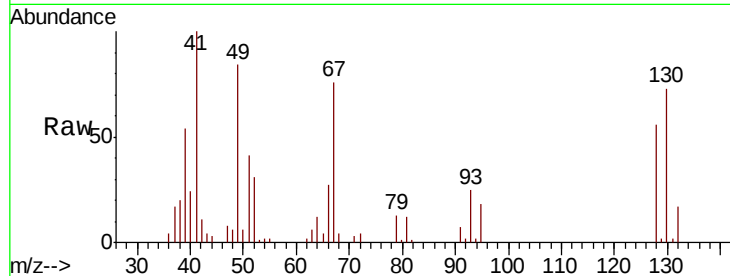
#35
Methacrylonitrile
Concen: 14.67 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	54.0	26.2	78.5
67	76.0	33.9	101.6
52	31.1	12.5	37.5

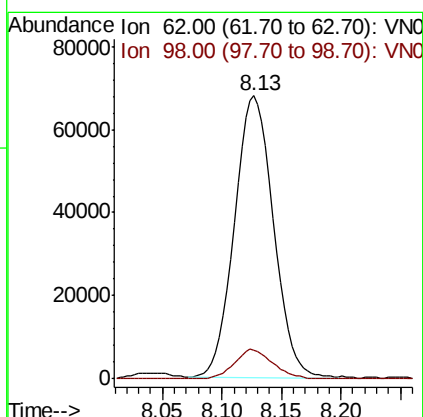
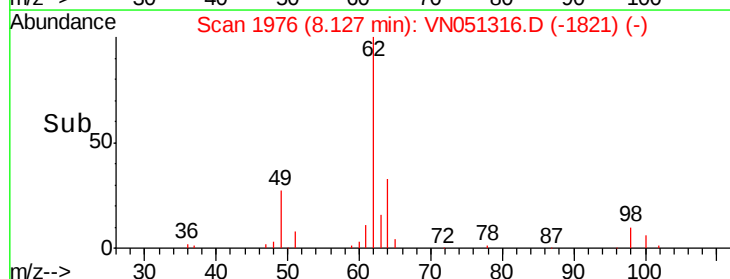
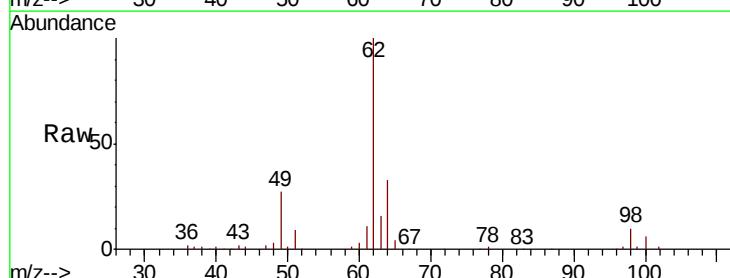
Manual Integrations
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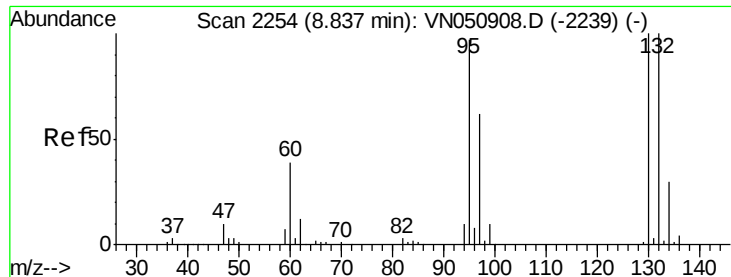
MMDadoda
9/20/2018 1:42:08 PM



#36
1,2-Dichloroethane
Concen: 20.25 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.3	8.0	12.0





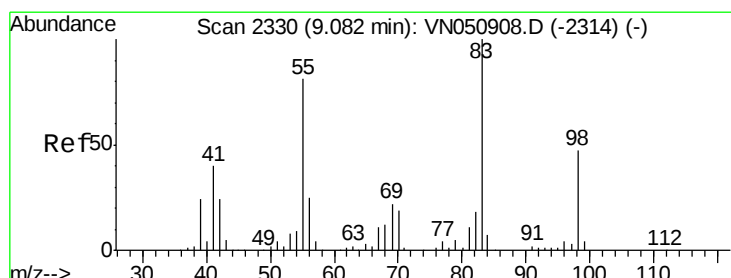
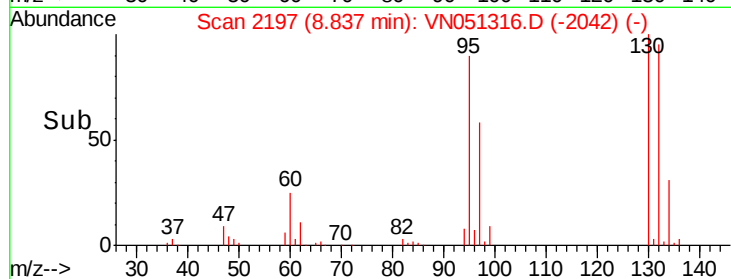
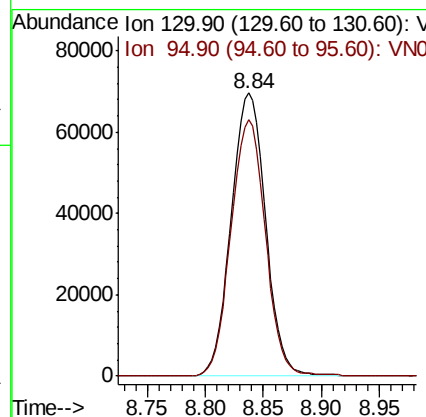
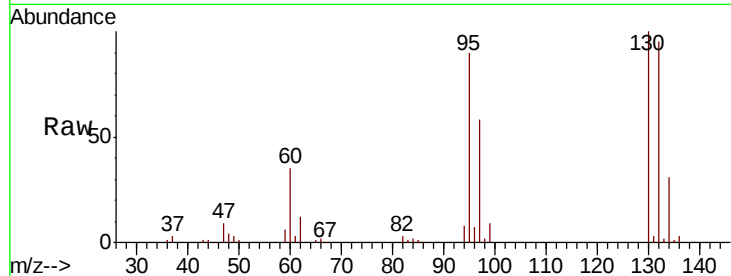
#37
 Trichloroethene
 Concen: 21.83 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion:130 Resp: 143289
 Ion Ratio Lower Upper
 130 100
 95 90.4 77.4 116.0

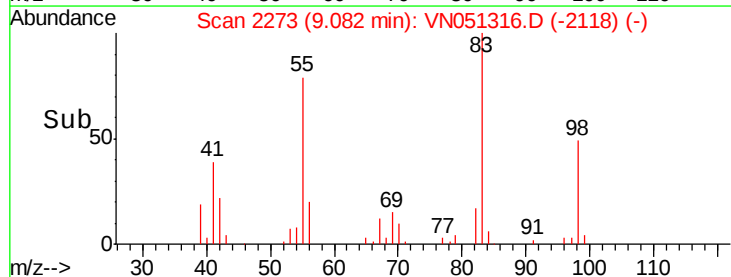
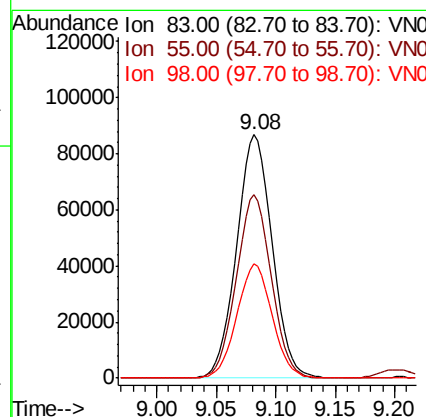
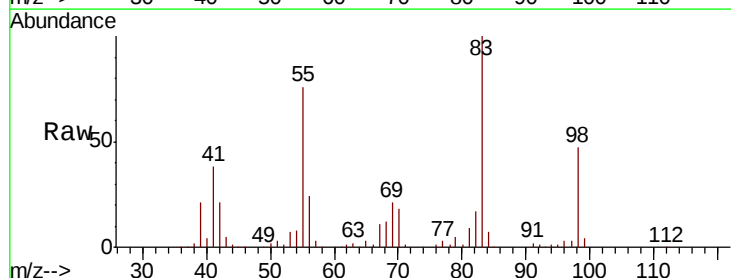
Manual Integrations
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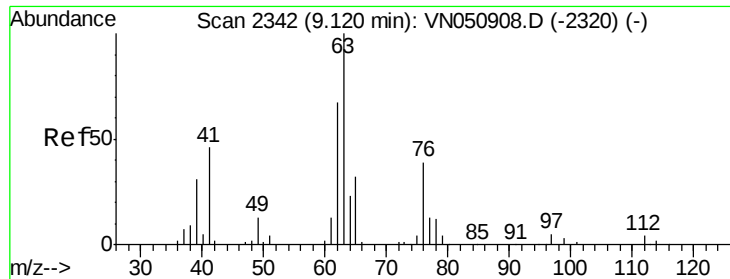
MMDadoda
 9/20/2018 1:42:08 PM



#38
 Methylcyclohexane
 Concen: 20.62 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion: 83 Resp: 179830
 Ion Ratio Lower Upper
 83 100
 55 74.3 38.9 116.7
 98 46.6 22.9 68.7





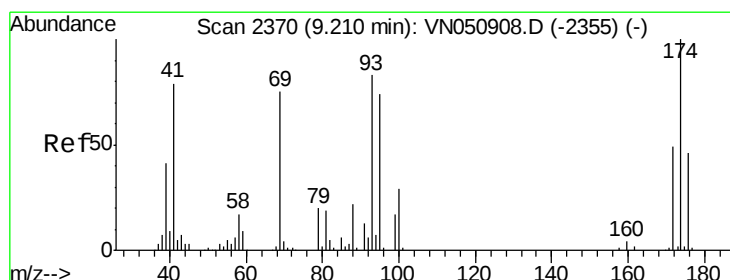
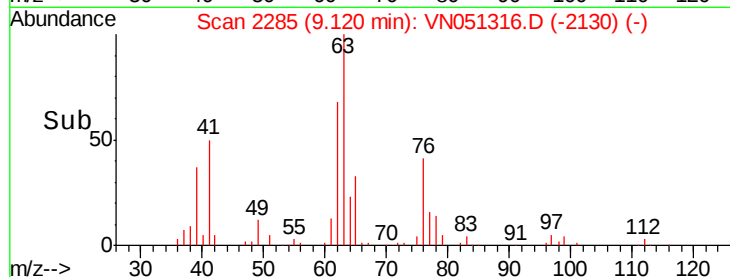
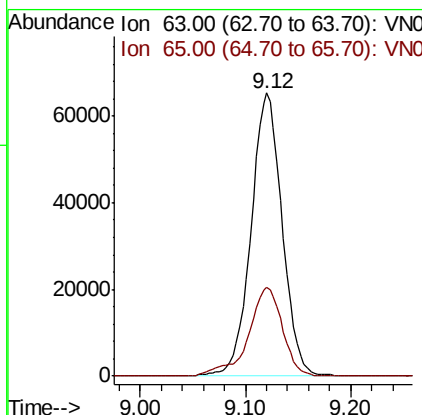
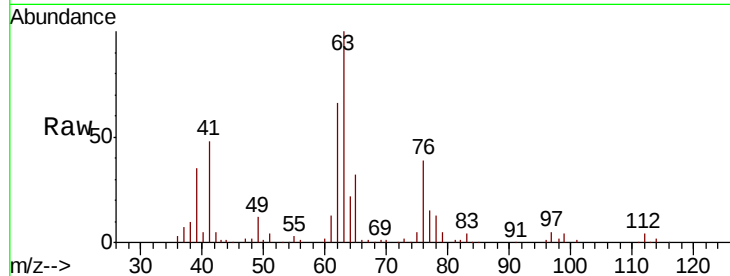
#39
 1,2-Dichloropropane
 Concen: 20.48 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion	63	Resp	134325
Ion Ratio	Lower	Upper	
63	100		
65	31.6	25.6	38.4

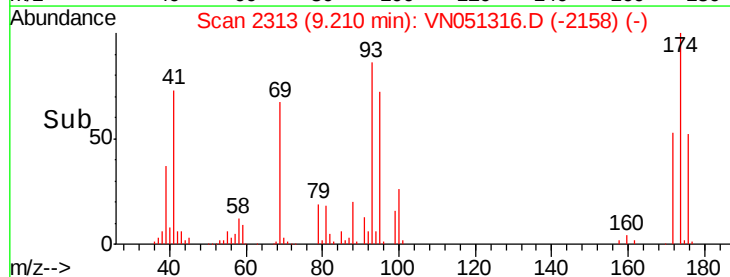
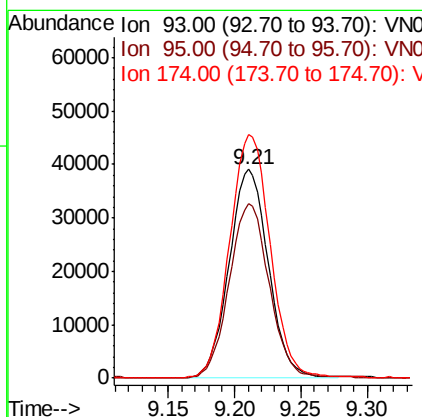
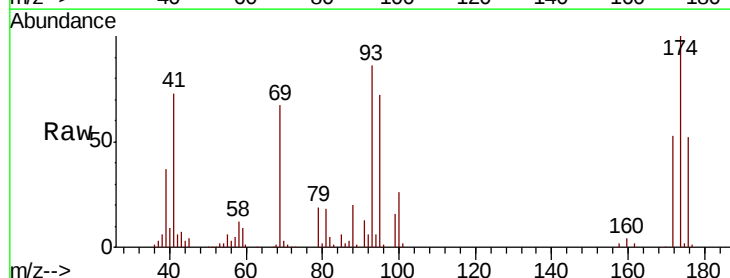
Manual Integrations
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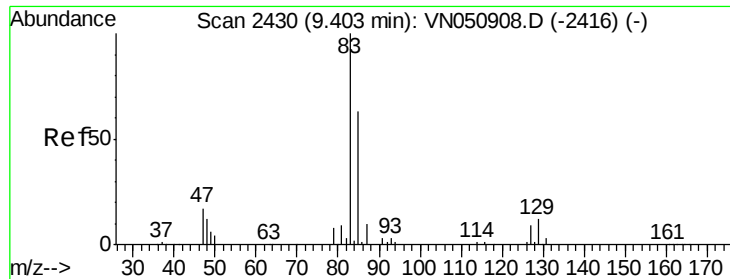
MMDadoda
 9/20/2018 1:42:08 PM



#40
 Dibromomethane
 Concen: 20.40 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	93	Resp	80608
Ion Ratio	Lower	Upper	
93	100		
95	84.9	0.0	173.4
174	120.3	0.0	234.8





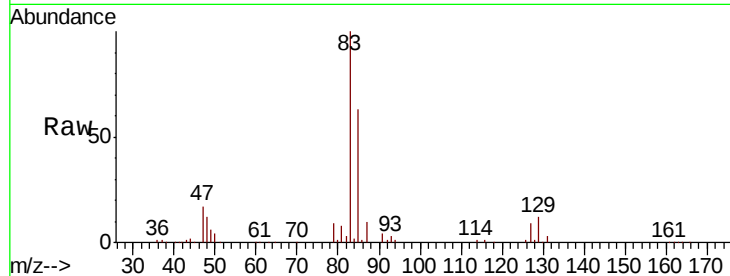
#41
Bromodichloromethane
Concen: 20.59 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

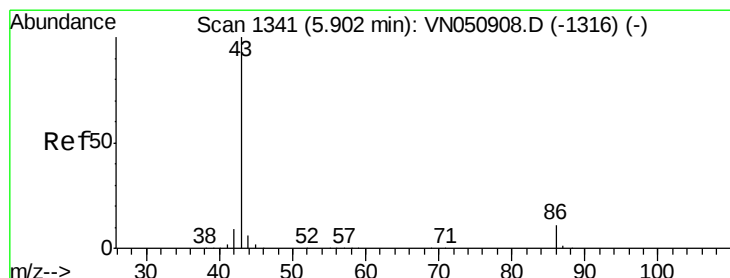
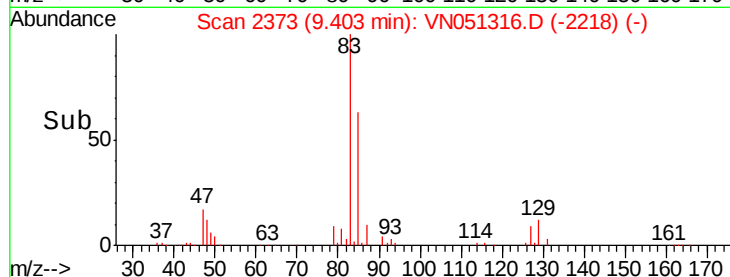
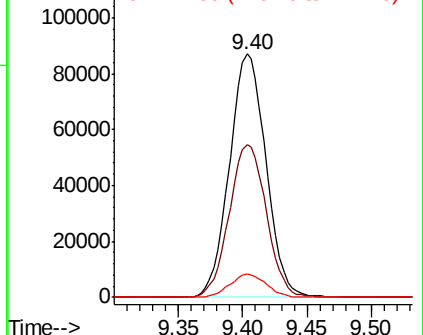
Tot Ion	83	Resp	171496
Ion Ratio	100	Lower	Upper
83	100		
85	62.8	50.6	76.0
127	9.5	7.1	10.7

Manual Integrations
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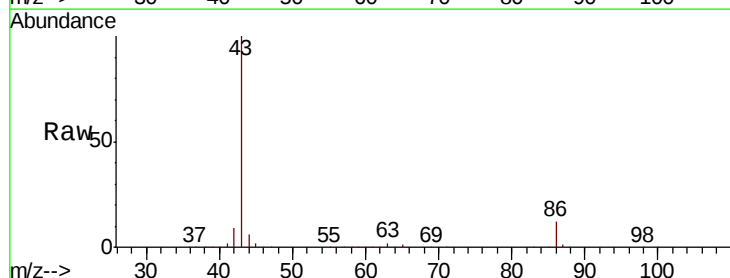


Abundance Ion 83.00 (82.70 to 83.70): VN051316.D (-2218) (-)

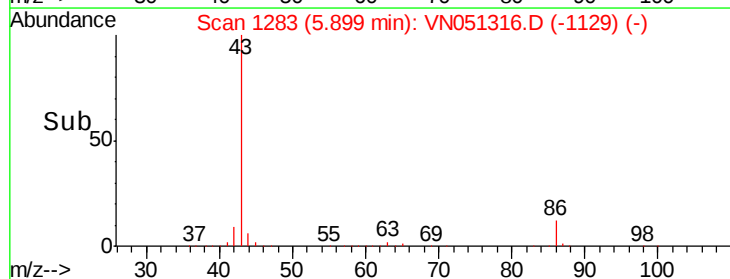
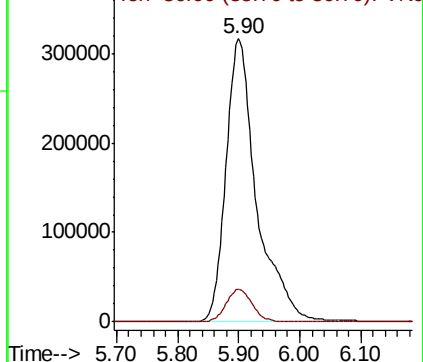


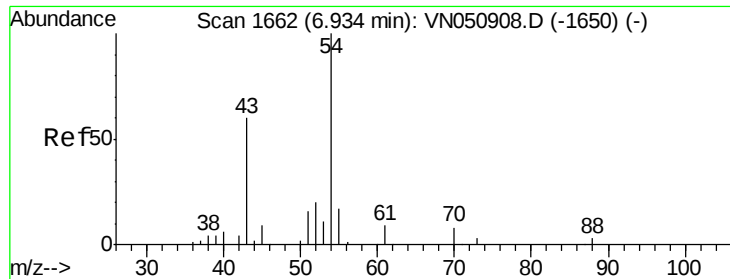
#42
Vinyl Acetate
Concen: 96.37 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	43	Resp	1108761
Ion Ratio	100	Lower	Upper
43	100		
86	9.8	7.2	10.8



Abundance Ion 43.00 (42.70 to 43.70): VN051316.D (-1129) (-)





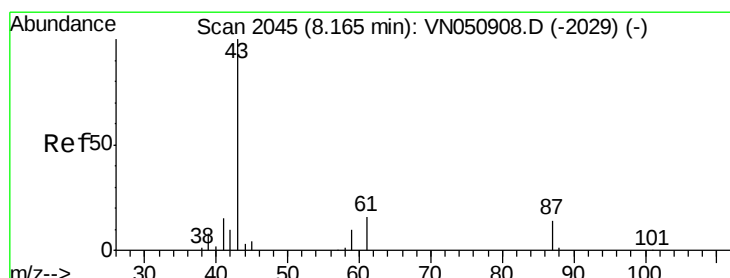
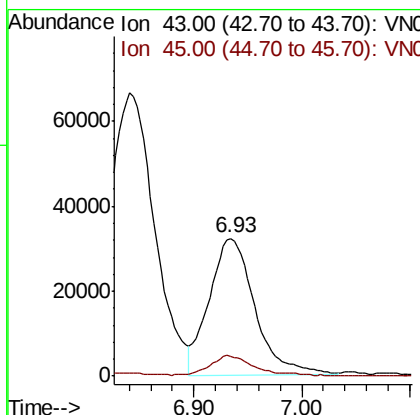
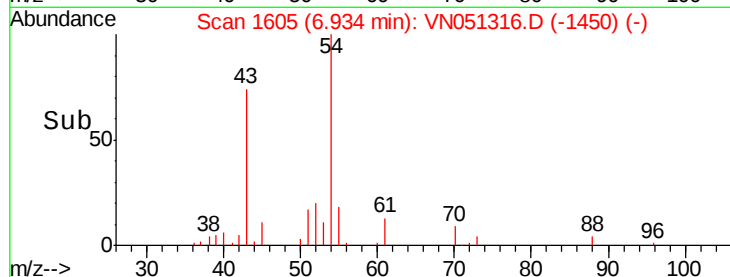
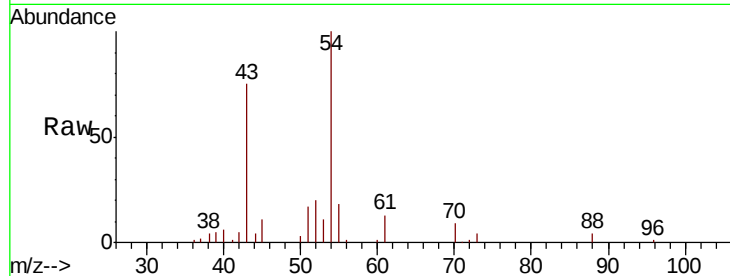
#43
Ethyl Acetate
Concen: 18.47 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion: 43 Resp: 94508
Ion Ratio Lower Upper
43 100
45 12.4 10.2 15.2

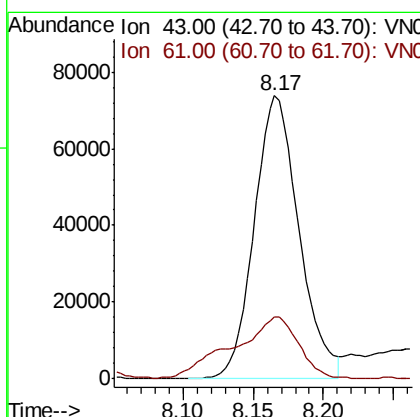
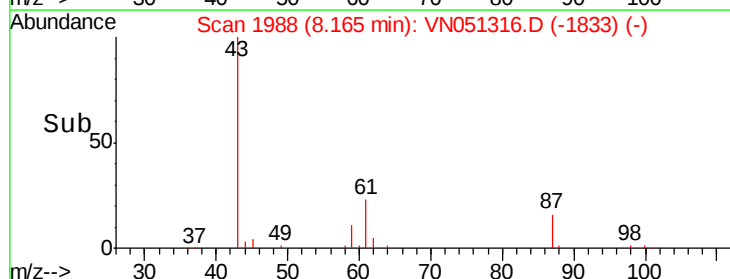
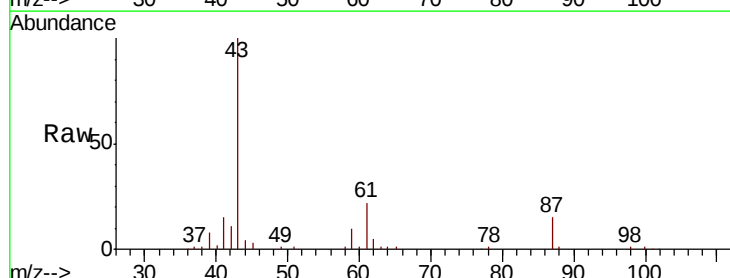
Manual Integrations
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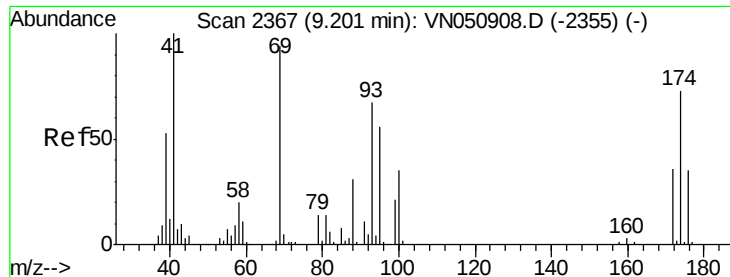
MMDadoda
9/20/2018 1:42:08 PM



#44
Isopropyl Acetate
Concen: 17.97 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion: 43 Resp: 162279
Ion Ratio Lower Upper
43 100
61 31.6 16.3 24.5#





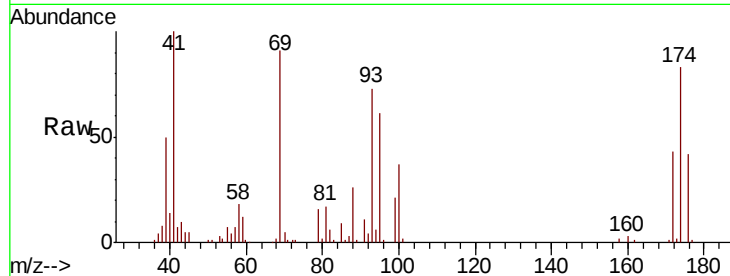
#45
 1,4-Dioxane
 Concen: 347.62 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.3	23.5	35.3
58	66.4	55.2	82.8

Manual Integrations
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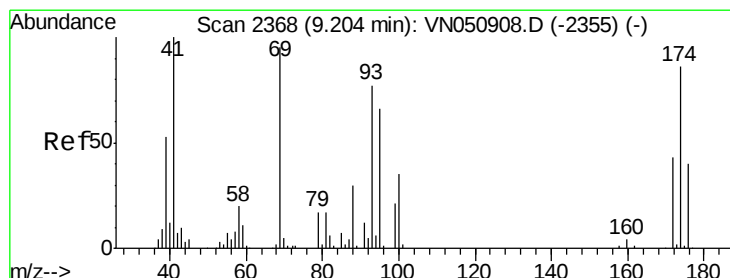
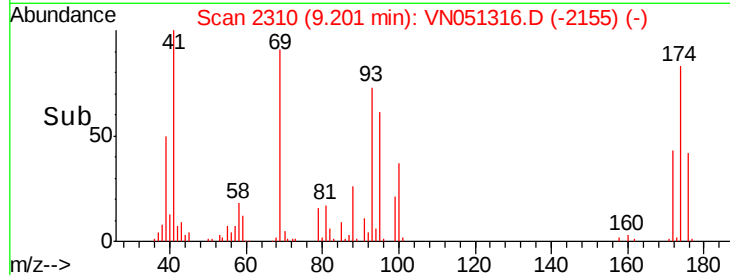
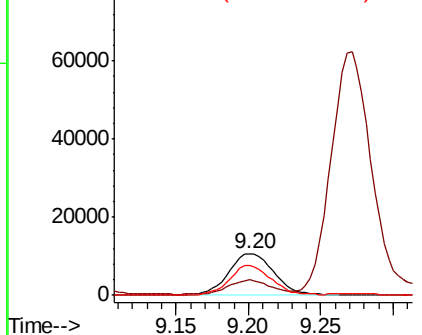


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#46
 Methyl methacrylate
 Concen: 17.09 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

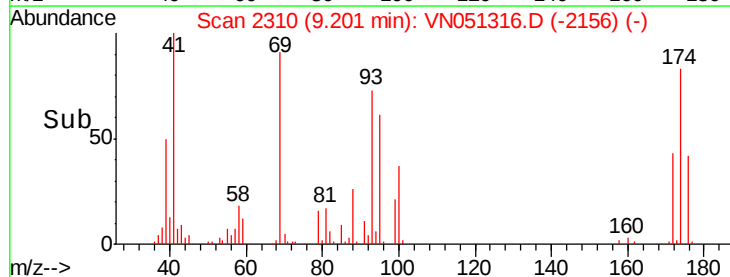
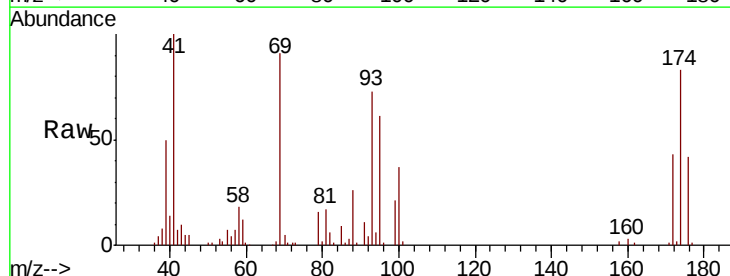
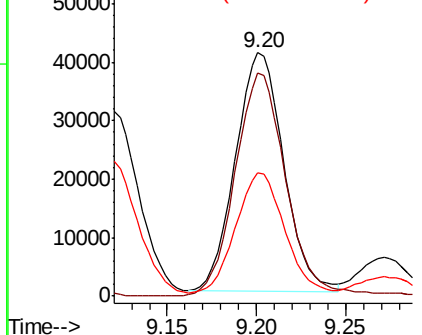
Tgt Ion	Ratio	Lower	Upper
41	100		
69	93.1	47.4	142.2
39	50.2	26.6	79.7

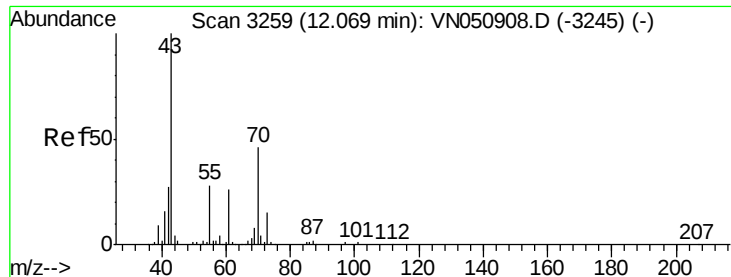
Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#47

n-amvl Acetate

Concen: 15.62 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

VN0919WBSD01

Tot Ion: 43 Resp: 113356

Ion Ratio Lower Upper

43 100

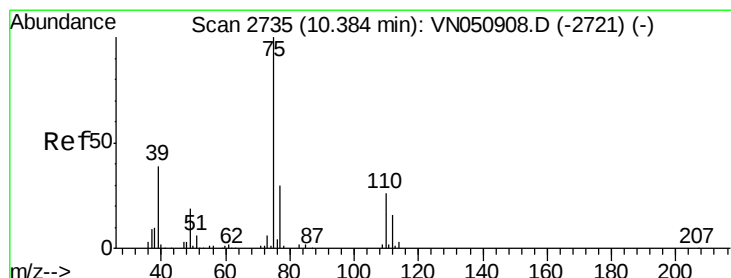
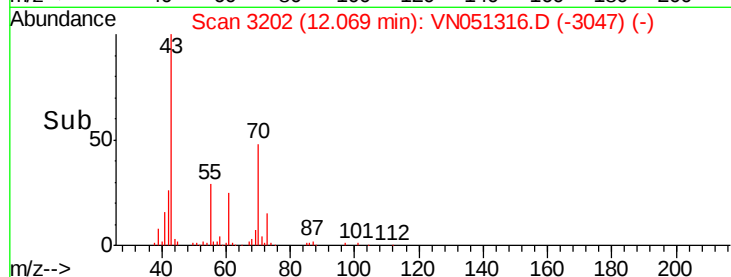
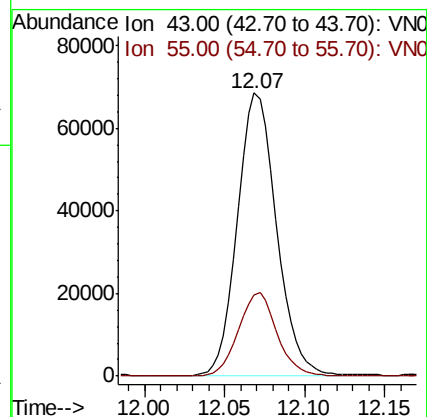
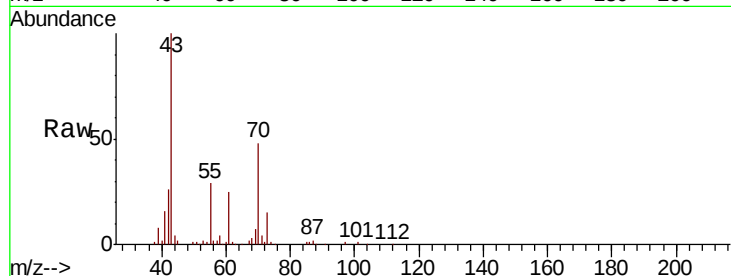
55 29.1 23.0 34.4

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#48

t-1,3-Dichloropropene

Concen: 19.32 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. -0.00 min

Lab File: VN051316.D

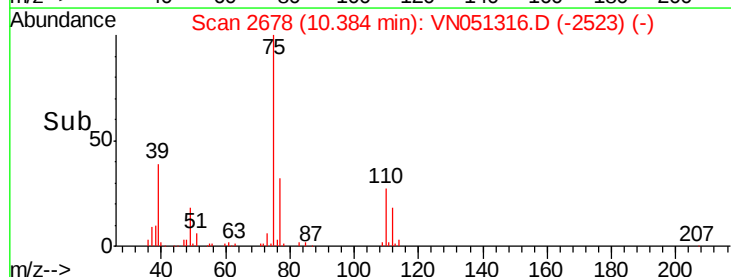
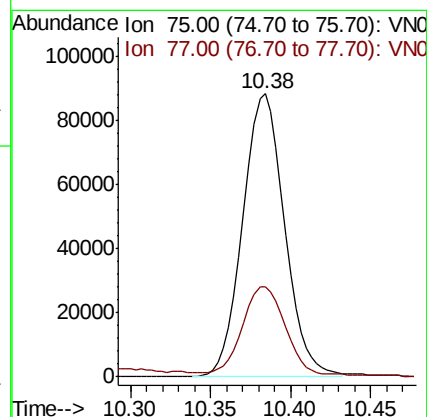
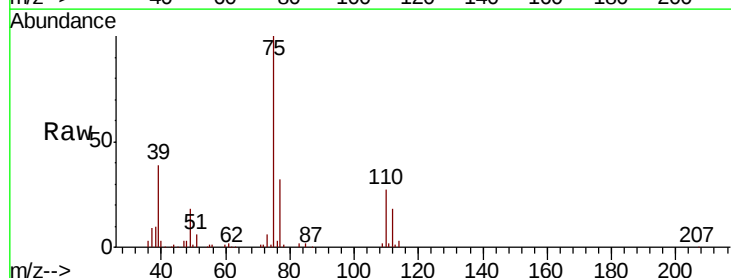
Acq: 19 Sep 2018 14:01

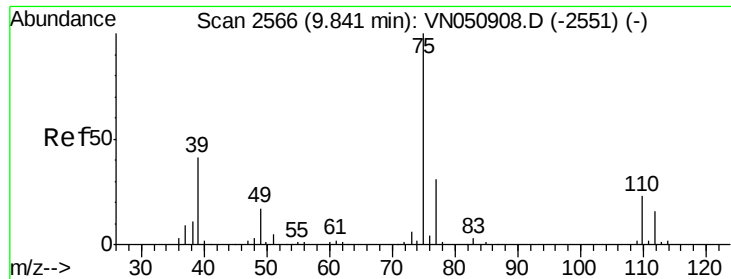
Tgt Ion: 75 Resp: 157722

Ion Ratio Lower Upper

75 100

77 31.1 24.8 37.2





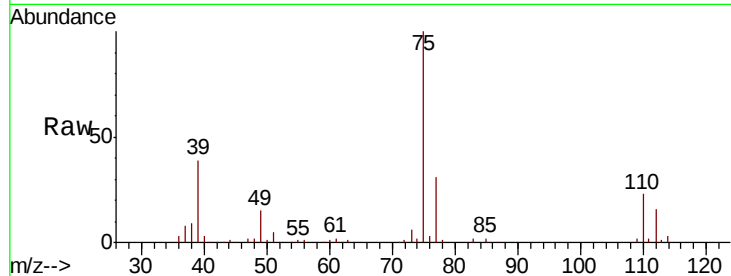
#49
 cis-1,3-Dichloropropene
 Concen: 20.74 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
75	100	194564		
77	30.7	25.0	37.4	
39	39.0	32.9	49.3	

Manual Integrations
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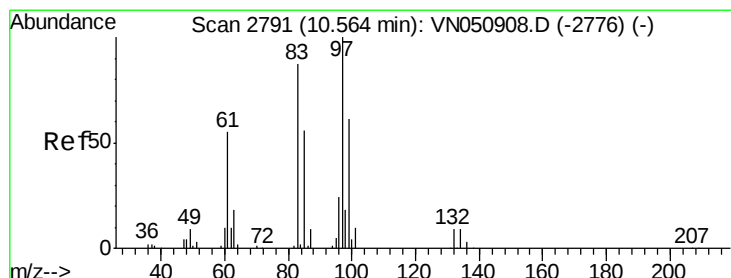
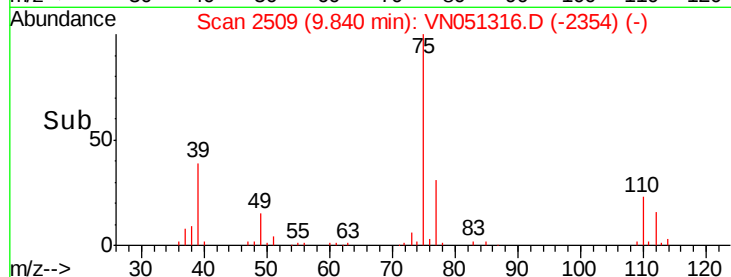
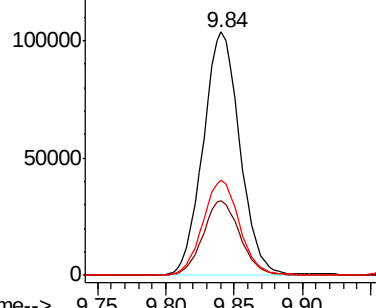


Abundance

Ion 75.00 (74.70 to 75.70): VNO

Ion 77.00 (76.70 to 77.70): VNO

Ion 39.00 (38.70 to 39.70): VNO



#50
 1,1,2-Trichloroethane
 Concen: 20.13 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	115579		
83	87.8	69.8	104.6	
85	56.7	45.0	67.6	
99	62.5	49.1	73.7	

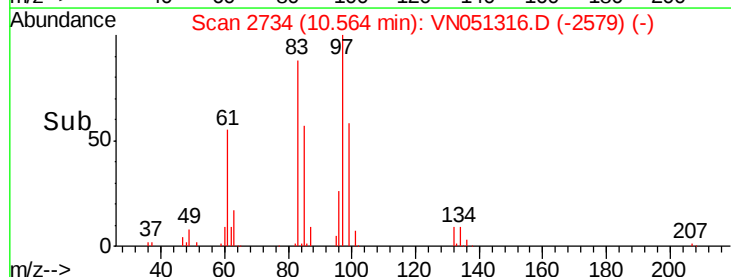
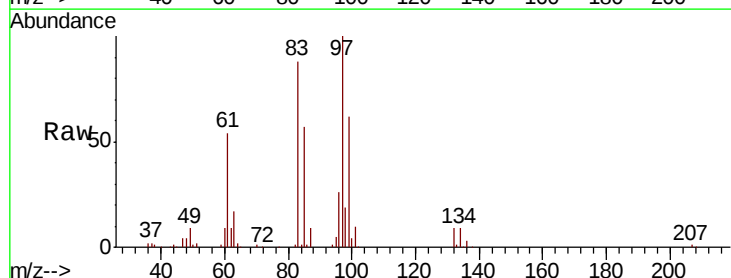
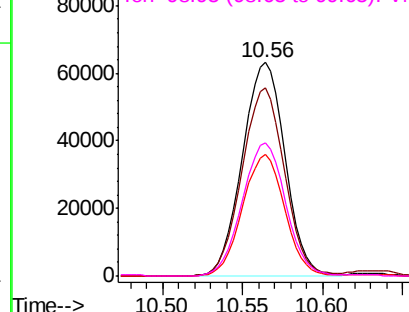
Abundance

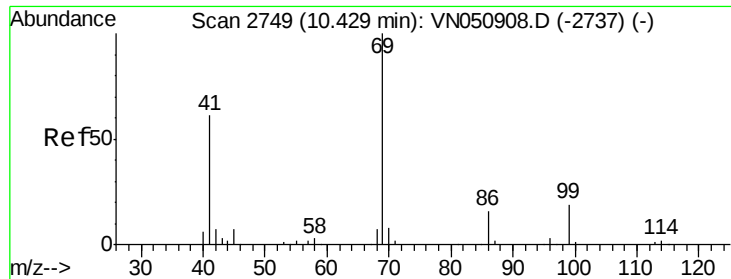
Ion 97.00 (96.70 to 97.70): VNO

Ion 82.95 (82.65 to 83.65): VNO

Ion 84.95 (84.65 to 85.65): VNO

Ion 98.95 (98.65 to 99.65): VNO





#51

Ethyl methacrylate

Concen: 18.31 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

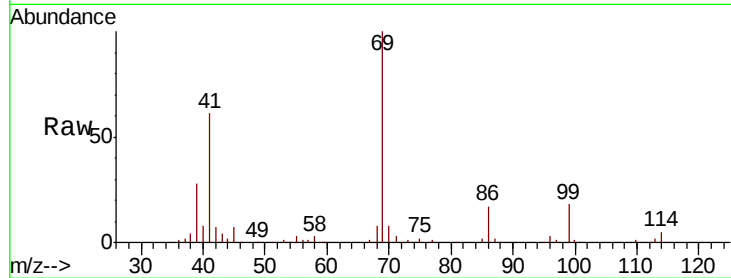
ClientSampleID :

VN0919WBSD01

Tot Ion:	69	Resp:	128602
Ion Ratio	Lower	Upper	
69	100		
41	60.6	30.5	91.5
39	28.1	15.3	45.8

Manual Integrations
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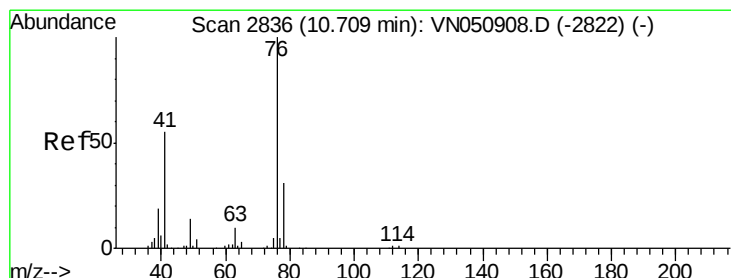
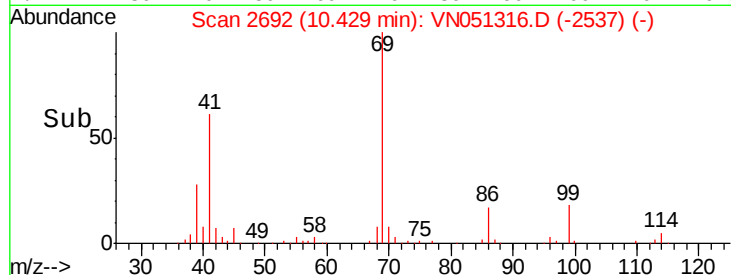
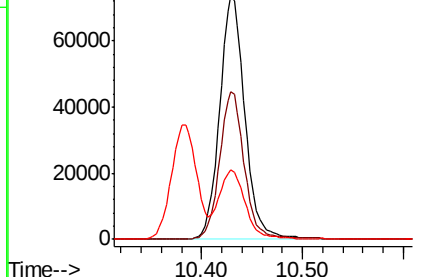
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Abundance Ion 69.00 (68.70 to 69.70): VN051316.D (-2537) (-)

Ion 41.00 (40.70 to 41.70): VN051316.D (-2537) (-)

Ion 39.00 (38.70 to 39.70): VN051316.D (-2537) (-)



#52

1,3-Dichloropropane

Concen: 19.75 ug/l

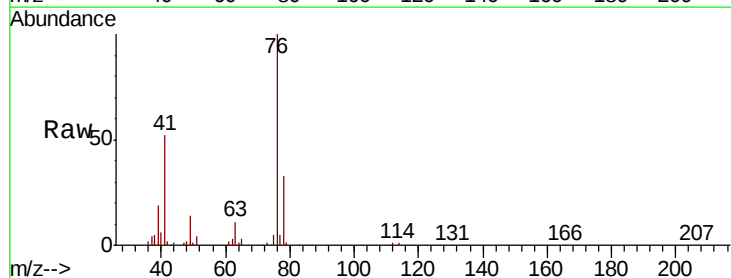
RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN051316.D

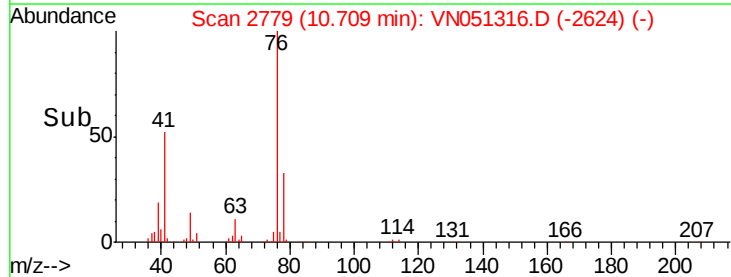
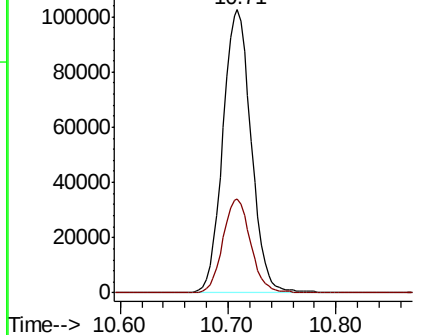
Acq: 19 Sep 2018 14:01

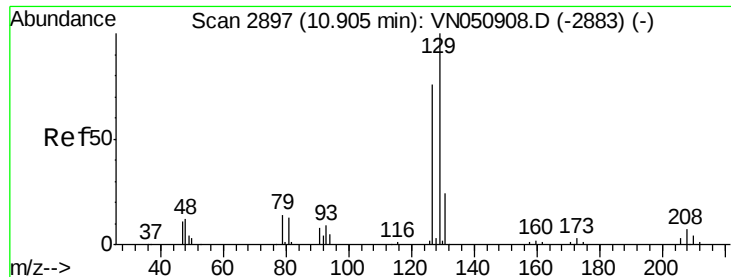
Tgt Ion:	76	Resp:	187830
Ion Ratio	Lower	Upper	
76	100		
78	32.6	0.0	63.4



Abundance Ion 76.00 (75.70 to 76.70): VN051316.D (-2624) (-)

Ion 78.00 (77.70 to 78.70): VN051316.D (-2624) (-)





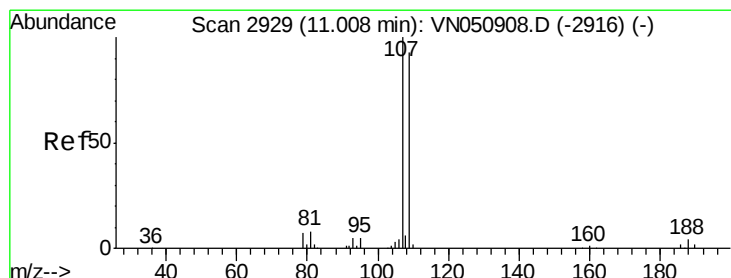
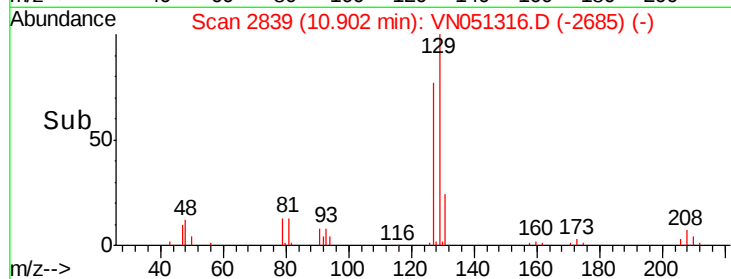
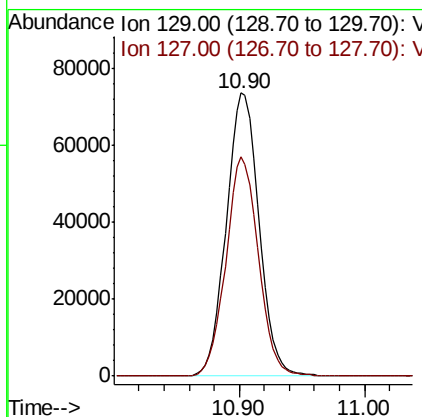
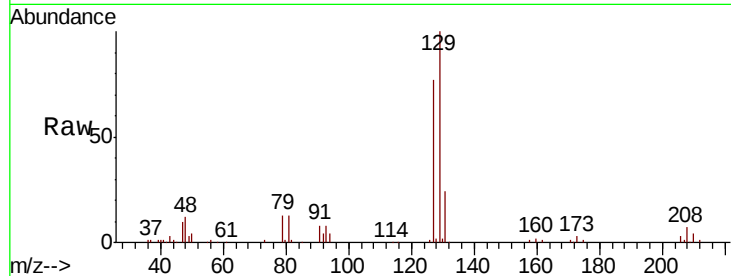
#53
 Dibromochloromethane
 Concen: 20.43 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.0	116.9

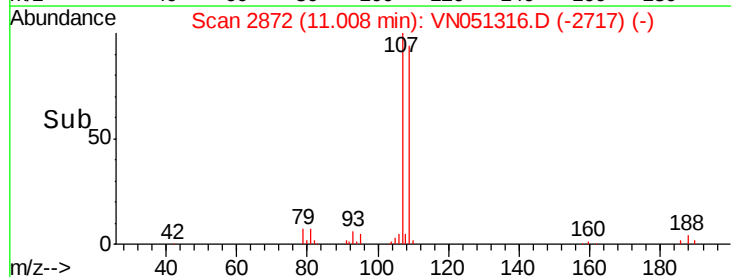
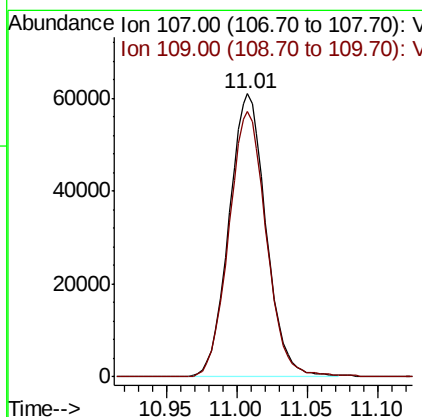
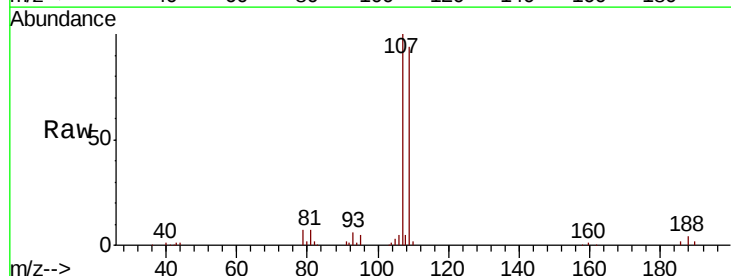
Manual Integrations
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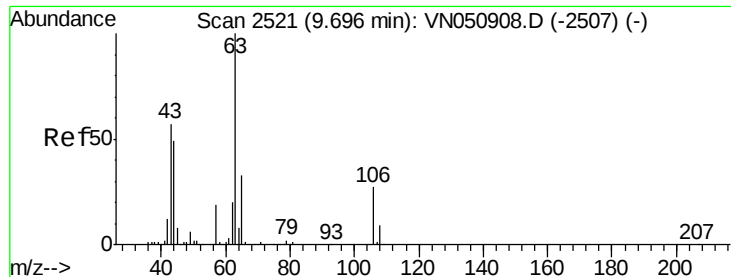
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#54
 1,2-Dibromoethane
 Concen: 19.76 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.5	74.4	111.6





#55

2-Chloroethyl vinyl ether

Concen: 82.79 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

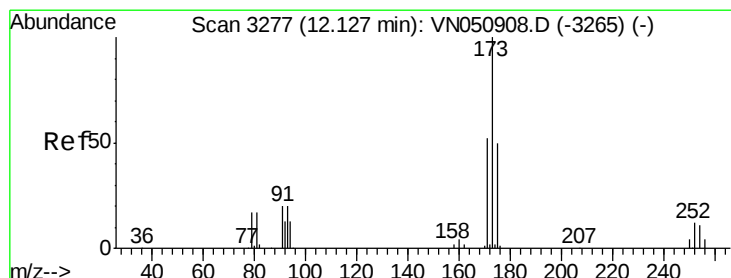
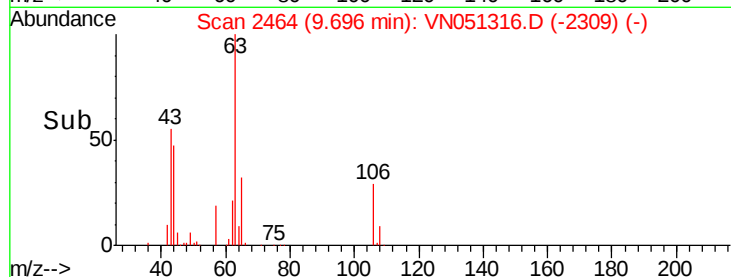
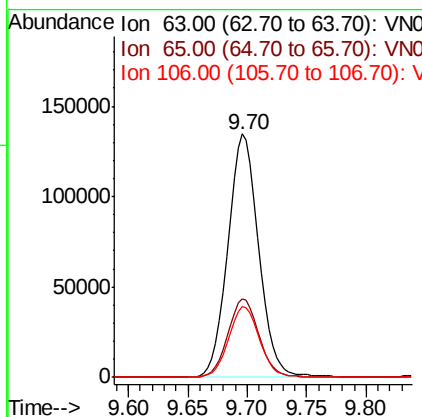
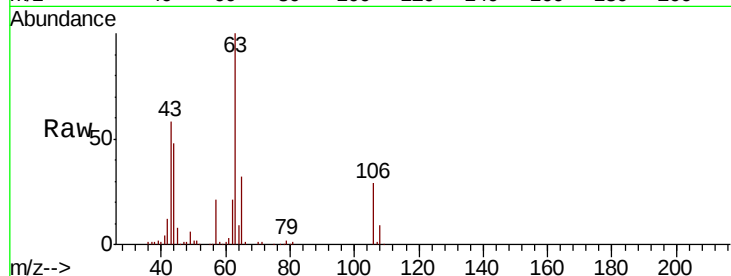
ClientSampleId :

VN0919WBSD01

Tot Ion:	63	Resp:	242001
Ion	Ratio	Lower	Upper
63	100		
65	32.4	25.4	38.2
106	29.3	22.0	33.0

Manual Integrations
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9/20/2018 1:42:08 PM



#56

Bromoform

Concen: 19.81 ug/l

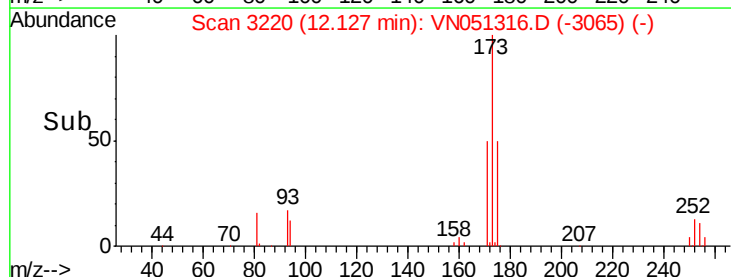
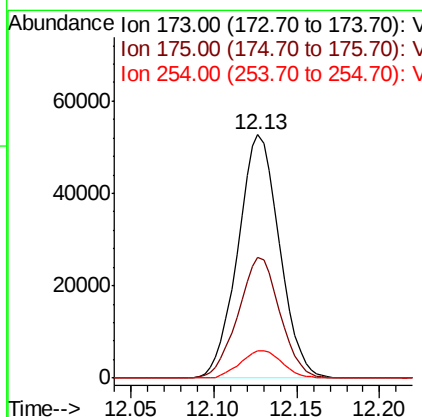
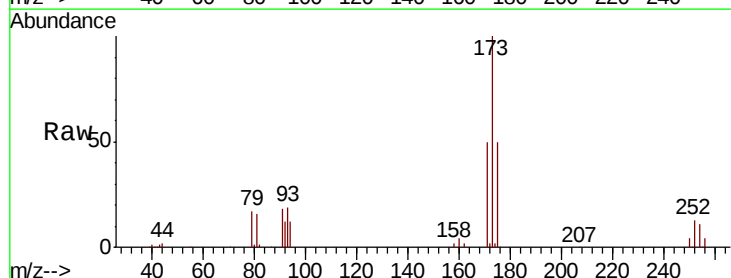
RT: 12.13 min Scan# 3220

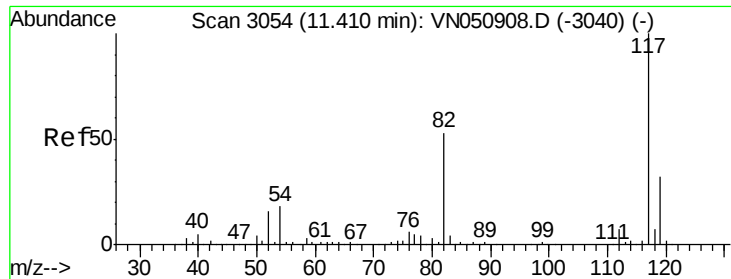
Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Tgt Ion:	173	Resp:	91995
Ion	Ratio	Lower	Upper
173	100		
175	49.9	39.2	58.8
254	11.4	9.0	13.6





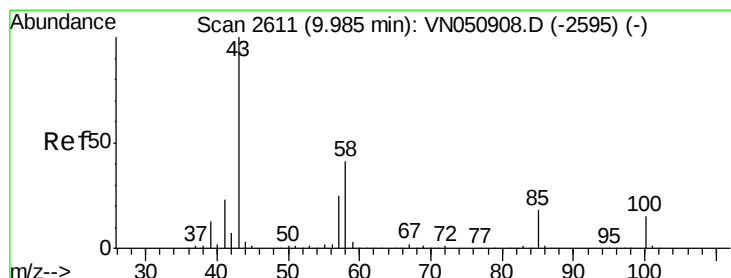
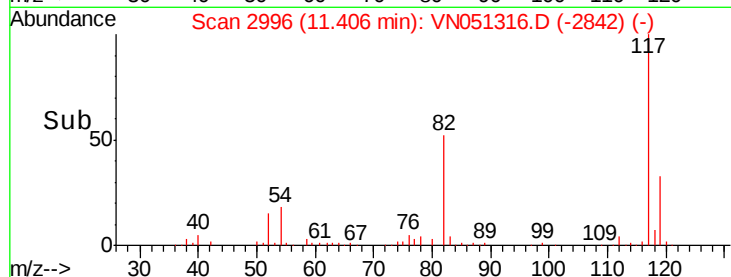
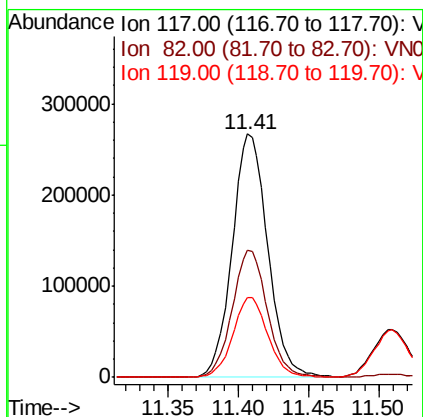
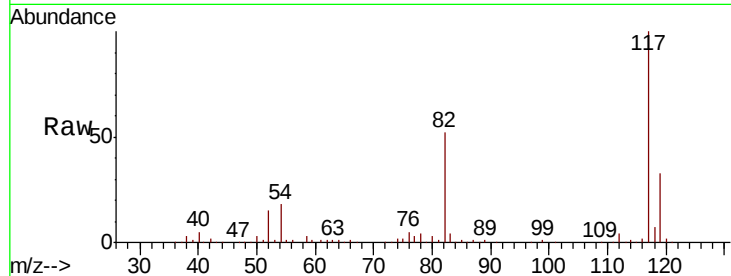
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampled :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.6	42.6	64.0
119	32.4	25.7	38.5

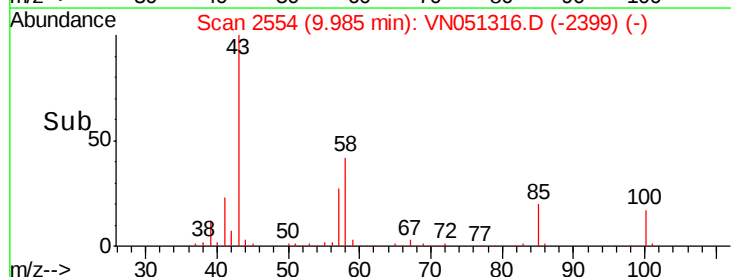
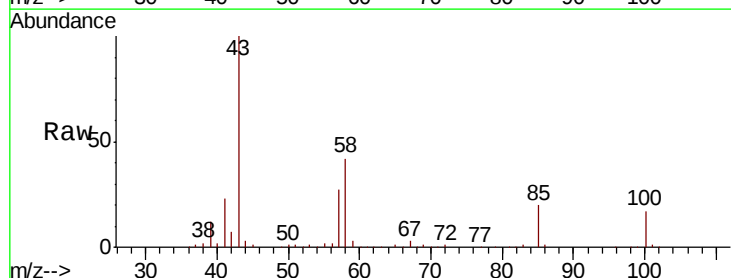
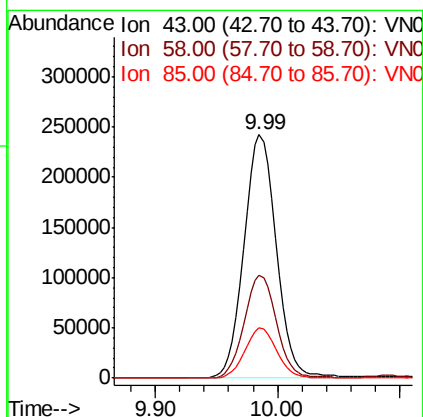
Manual Integrations
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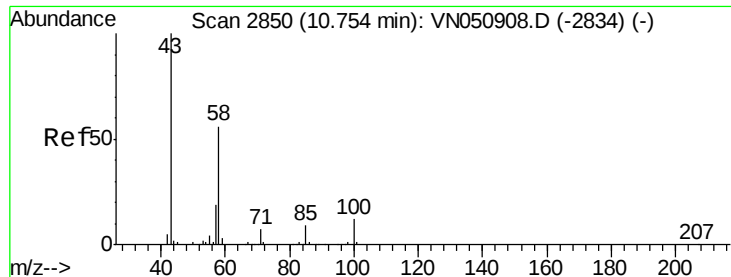
MMDadoda
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#58
4-Methyl-2-Pentanone
Concen: 81.73 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.1	32.3	48.5
85	20.2	14.9	22.3





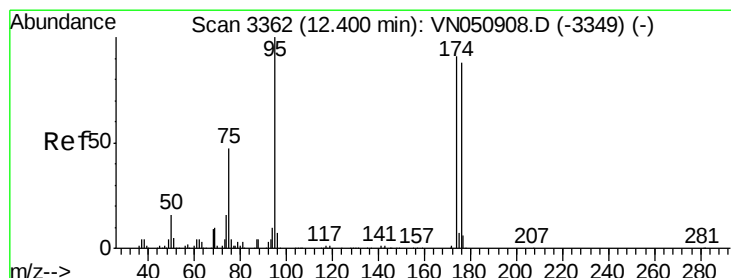
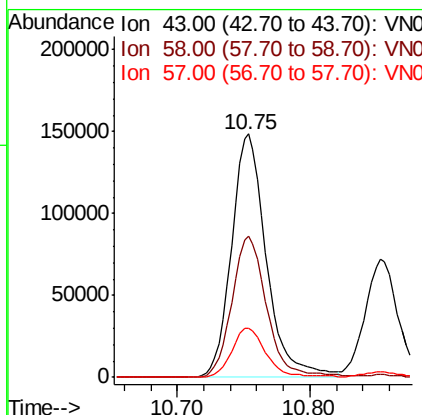
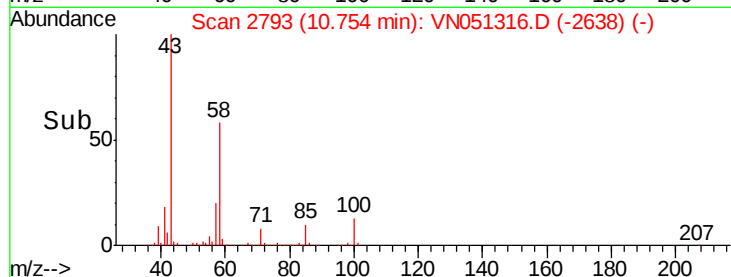
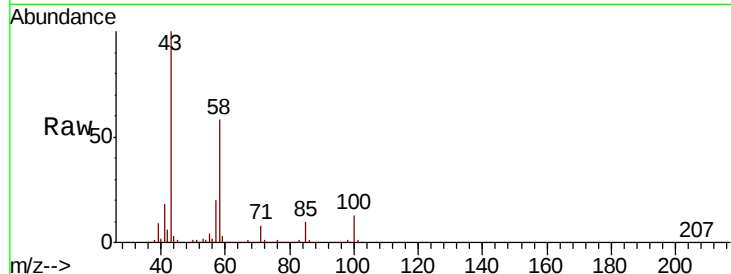
#59
2-Hexanone
Concen: 76.53 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	58.3	45.5	68.3
57	20.1	15.2	22.8

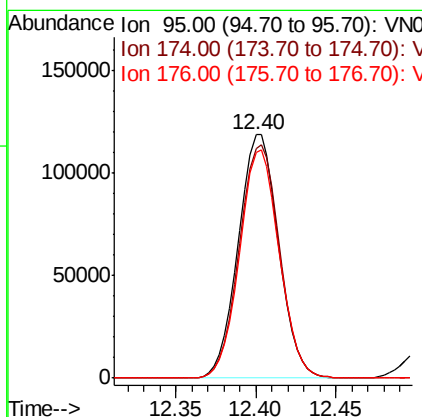
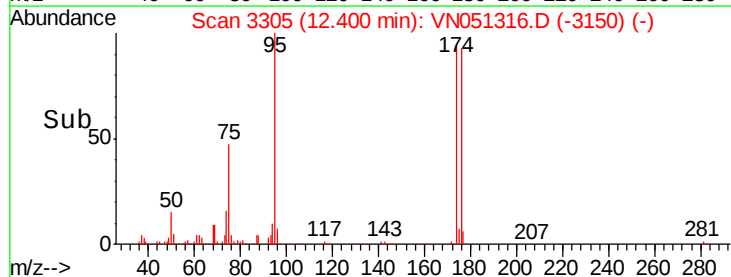
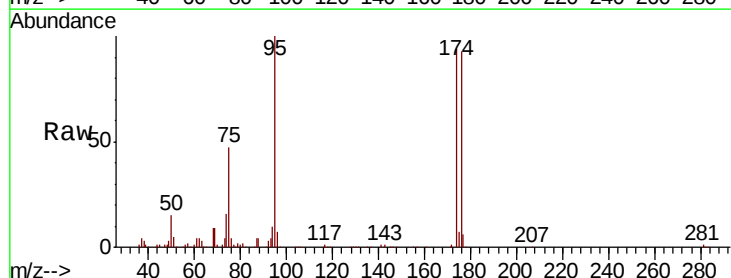
Manual Integrations
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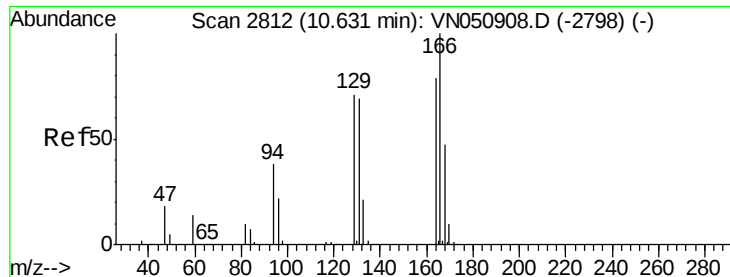
MMDadoda
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#60
4-Bromofluorobenzene
Concen: 29.05 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.0	74.6	112.0
176	92.2	71.5	107.3





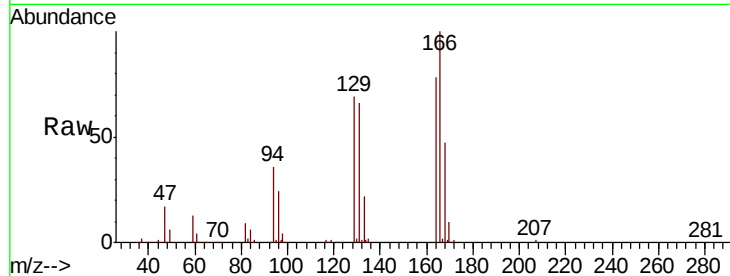
#61
Tetrachloroethene
Concen: 22.58 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampled :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.2	100.6	151.0
129	88.4	71.0	106.6
131	84.6	69.3	103.9

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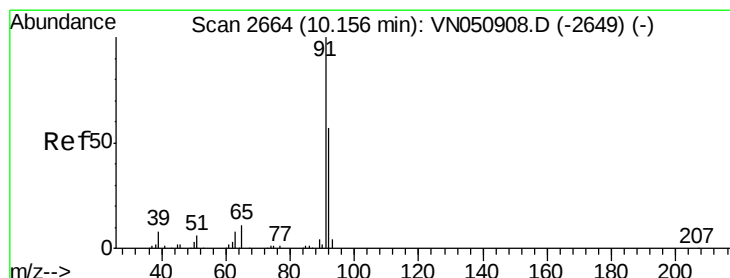
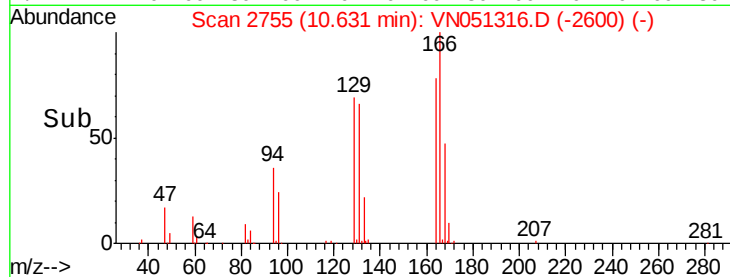
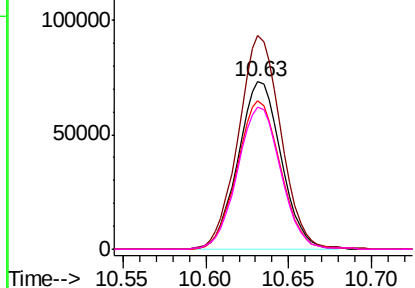
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

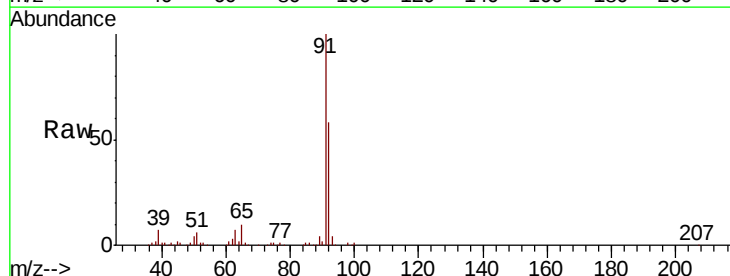
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62
Toluene
Concen: 21.30 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

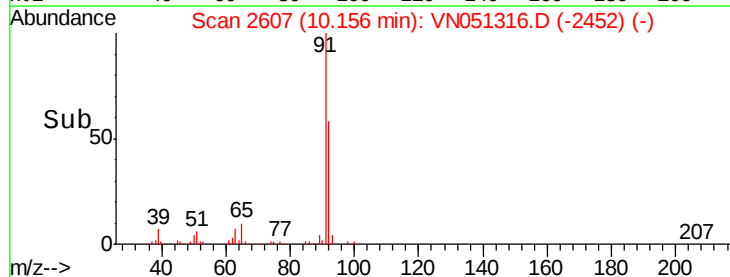
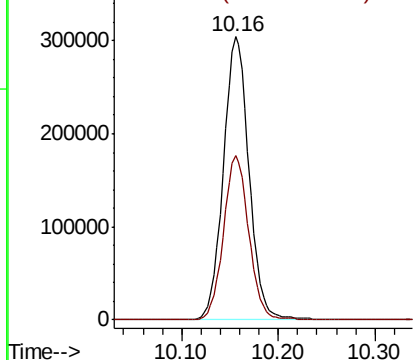
Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.3	45.8	68.8

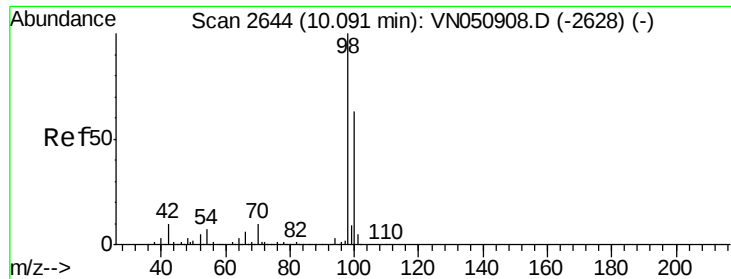


Abundance

Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 30.30 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

ClientSampleId :

VN0919WBSD01

Tot Ion: 98 Resp: 665003

Ion Ratio Lower Upper

98 100

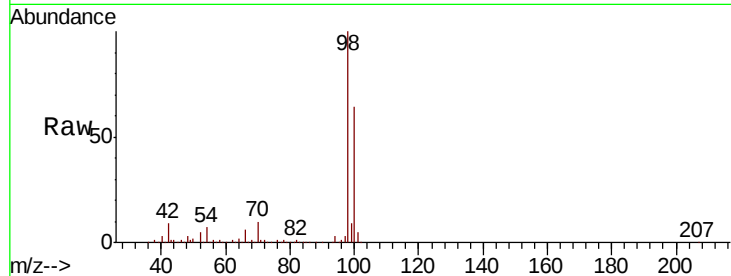
100 64.1 50.6 75.8

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Abundance Ion 98.00 (97.70 to 98.70): VN051316.D (-2432) (-)

Ion 100.00 (99.70 to 100.70): VN051316.D (-2432) (-)

10.09

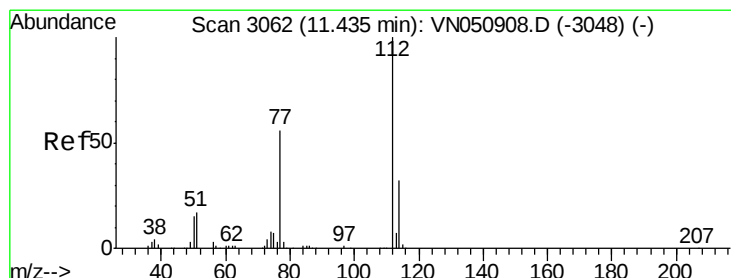
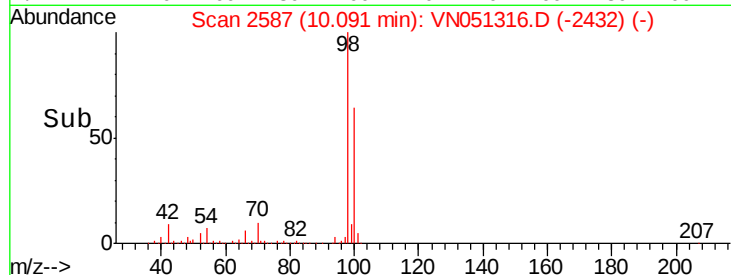
300000

200000

100000

0

Time-->



#64

Chlorobenzene

Concen: 21.39 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. -0.00 min

Lab File: VN051316.D

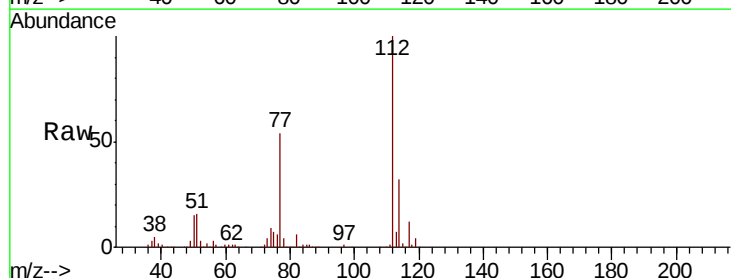
Acq: 19 Sep 2018 14:01

Tgt Ion: 112 Resp: 348066

Ion Ratio Lower Upper

112 100

114 31.7 25.5 38.3



Abundance Ion 112.00 (111.70 to 112.70): VN051316.D (-2850) (-)

Ion 114.00 (113.70 to 114.70): VN051316.D (-2850) (-)

11.44

200000

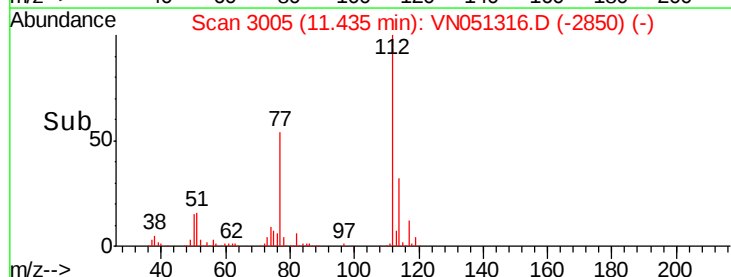
150000

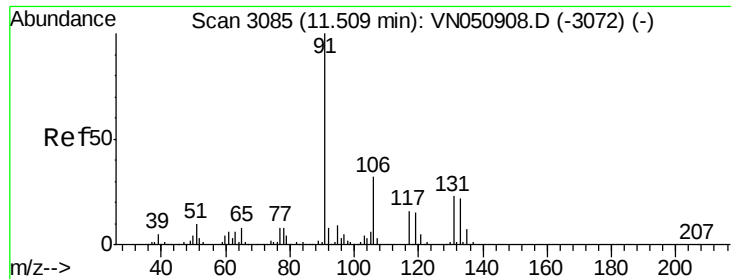
100000

50000

0

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 22.13 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

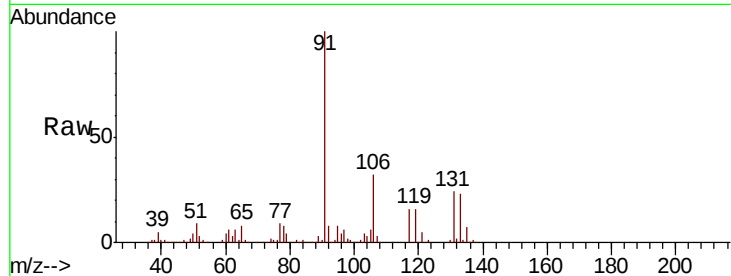
ClientSampleId :

VN0919WBSD01

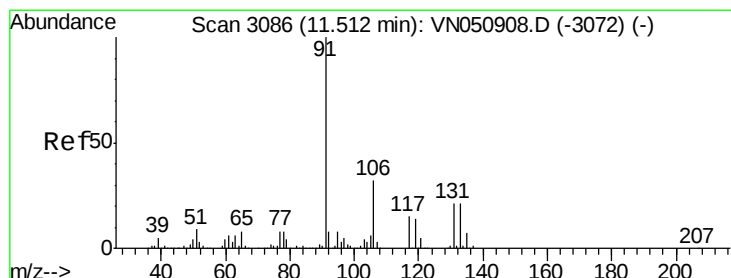
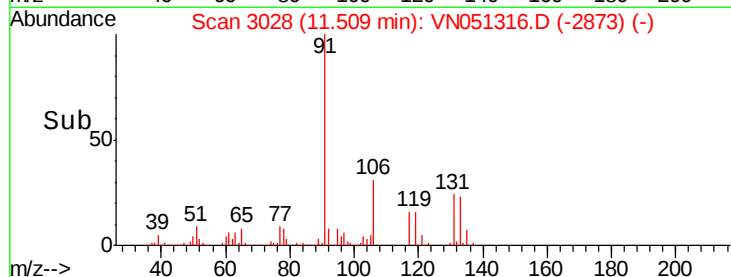
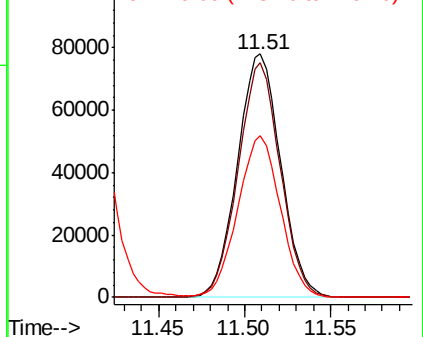
Tot Ion:	131	Resp:	135967
Ion Ratio	Lower	Upper	
131	100		
133	94.0	0.0	189.4
119	65.5	0.0	132.2

Manual Integrations
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Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 20.62 ug/l

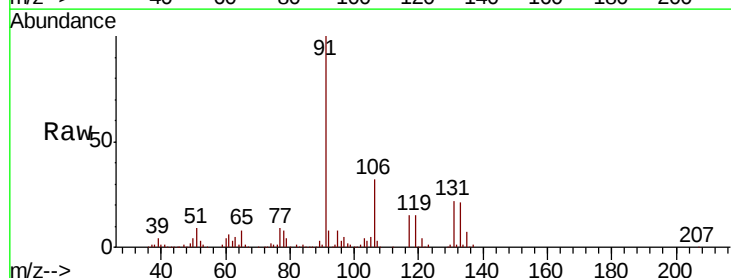
RT: 11.51 min Scan# 3029

Delta R.T. -0.00 min

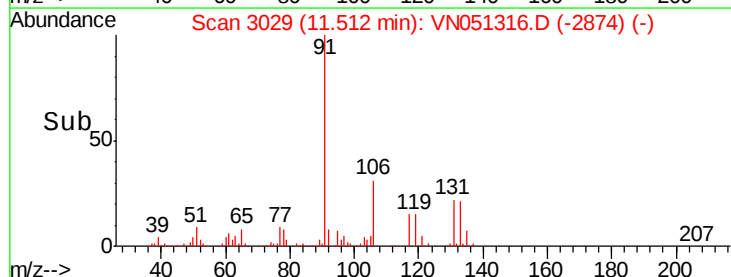
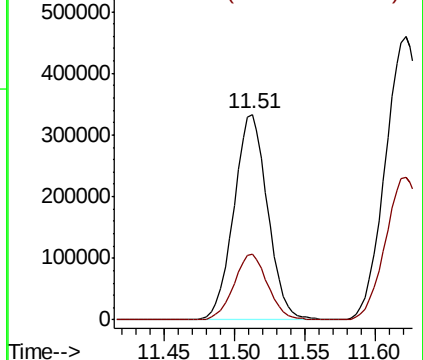
Lab File: VN051316.D

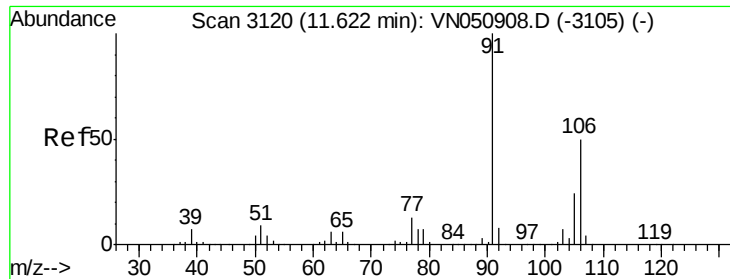
Acq: 19 Sep 2018 14:01

Tgt Ion:	91	Resp:	560712
Ion Ratio	Lower	Upper	
91	100		
106	31.8	25.7	38.5



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 106.00 (105.70 to 106.70): V





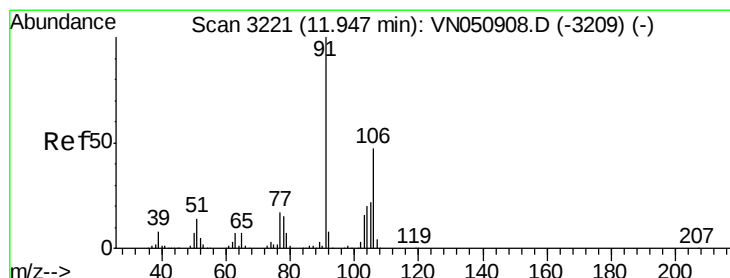
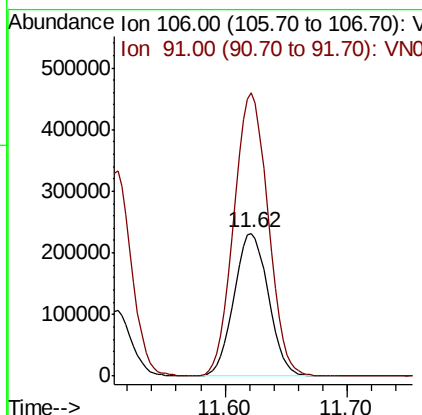
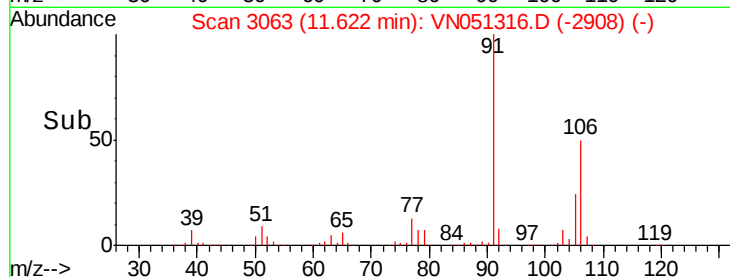
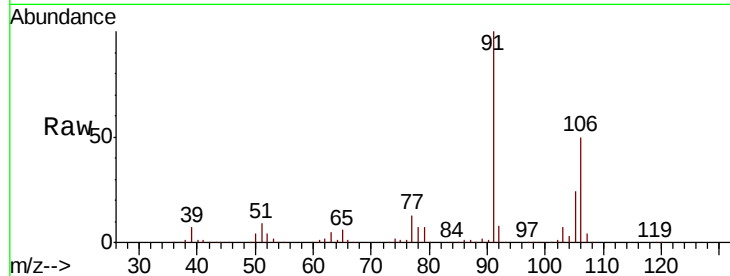
#67
m/p-Xylenes
Concen: 43.15 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion:106 Resp: 451513
Ion Ratio Lower Upper
106 100
91 198.5 160.6 241.0

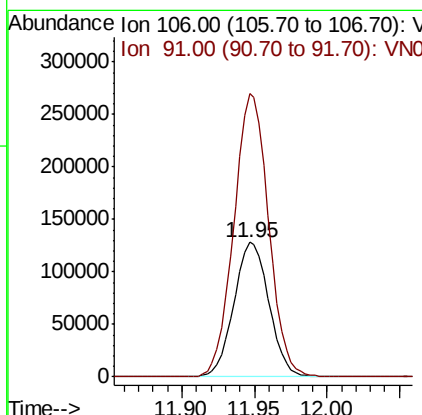
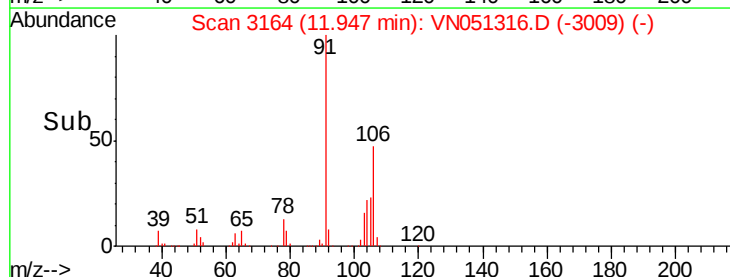
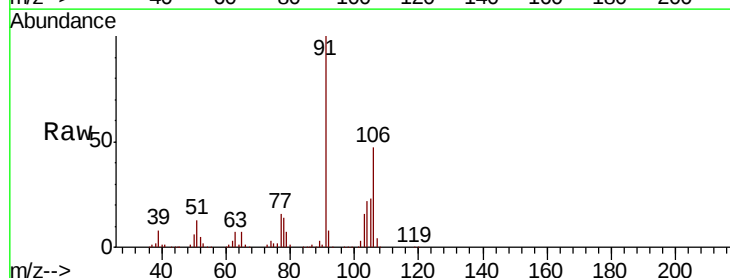
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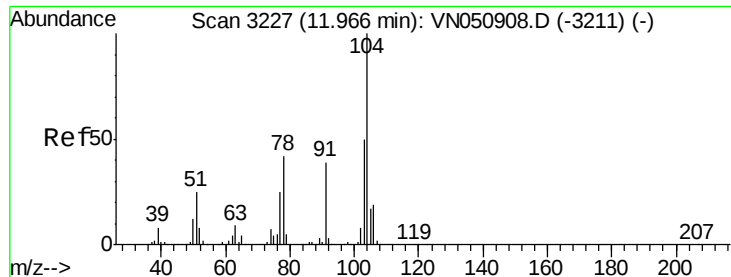
MMDadoda
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#68
o-Xylene
Concen: 21.50 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion:106 Resp: 215003
Ion Ratio Lower Upper
106 100
91 208.5 106.4 319.2





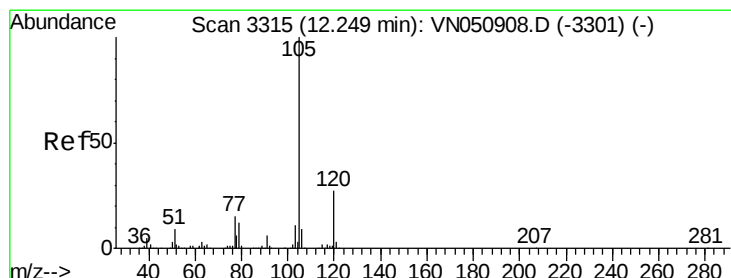
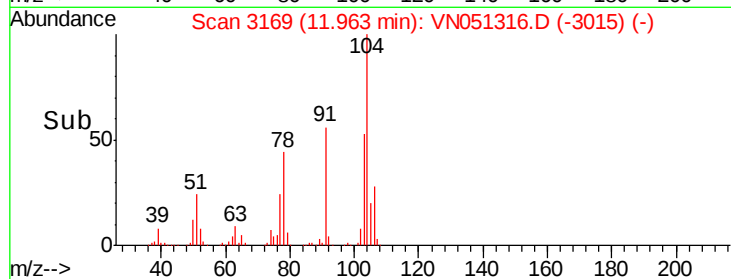
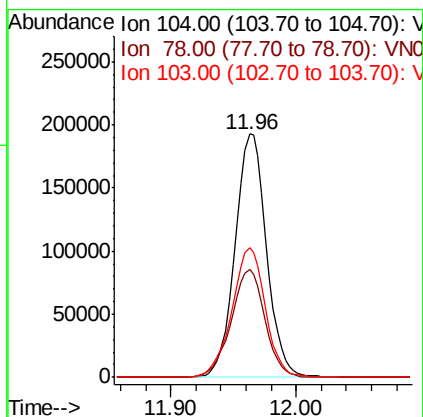
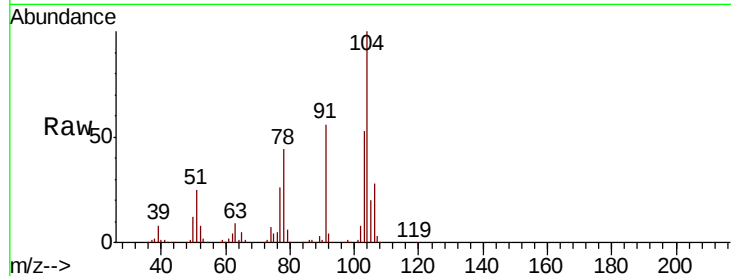
#69
Stvrene
Concen: 21.13 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
104	100	335897		
78	47.9		38.6	58.0
103	56.5		45.4	68.2

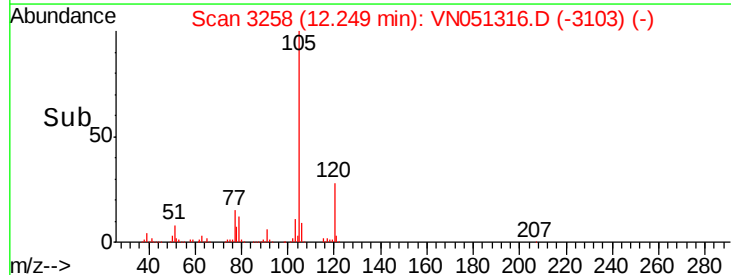
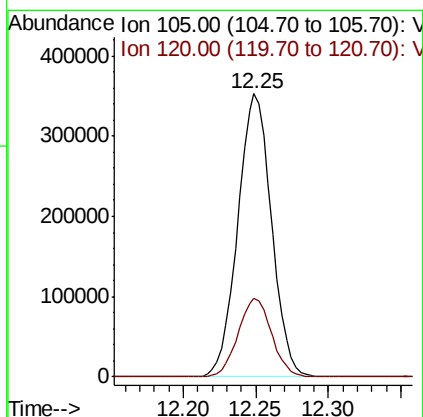
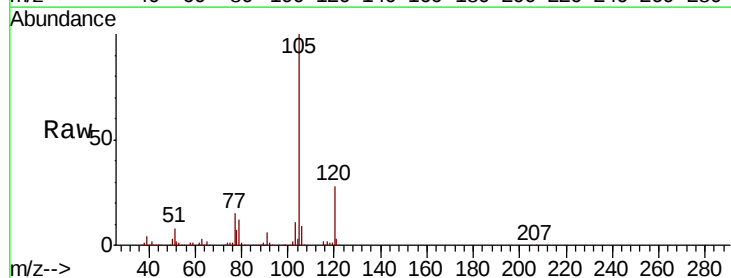
Manual Integrations
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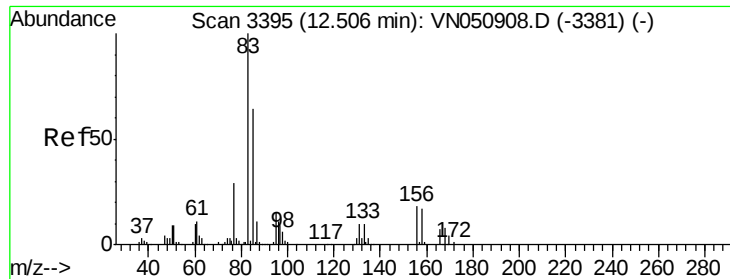
MMDadoda
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#70
Isopropylbenzene
Concen: 21.39 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	568210		
120	27.6		18.6	34.6





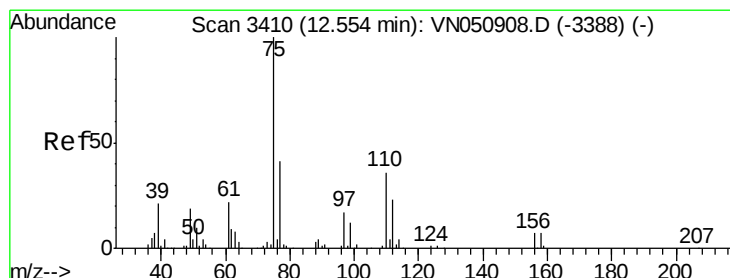
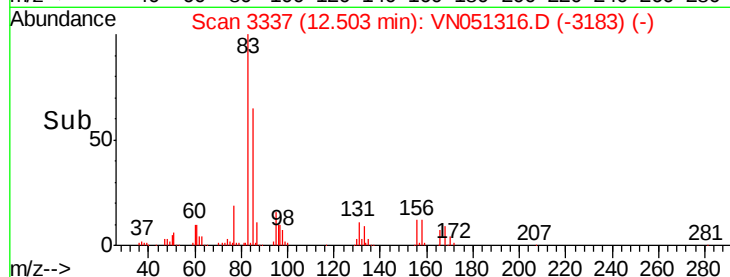
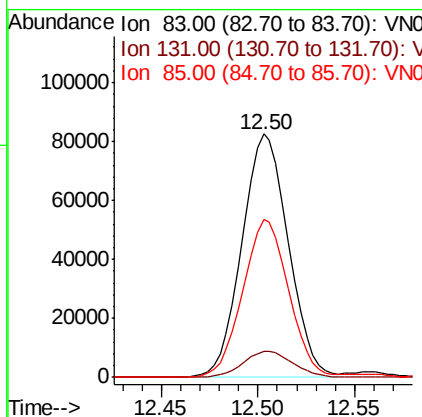
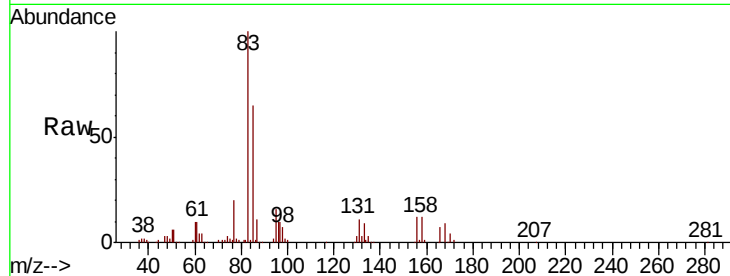
#71
 1,1,2,2-Tetrachloroethane
 Concen: 19.16 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion	83	Resp	137826
Ion Ratio	100	Lower	Upper
83	100		
131	11.5	5.3	15.9
85	64.2	32.3	96.9

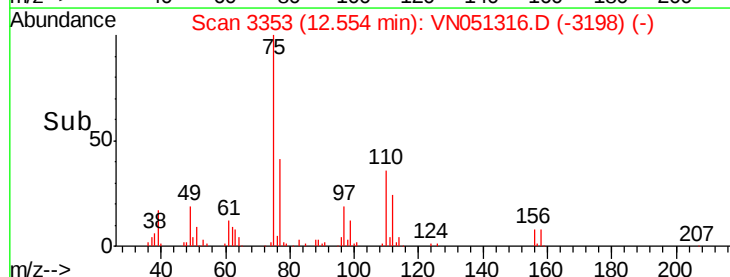
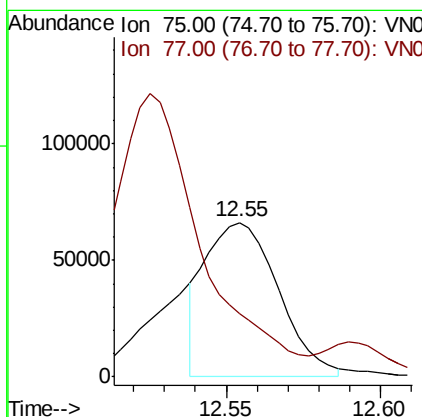
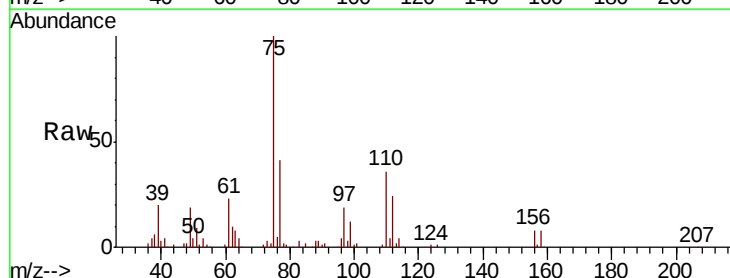
Manual Integrations
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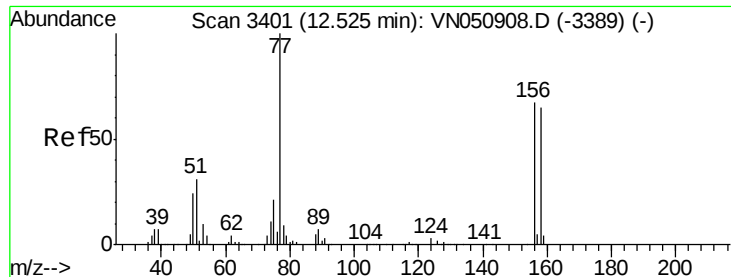
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#72
 1,2,3-Trichloropropane
 Concen: 17.64 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	75	Resp	109502
Ion Ratio	100	Lower	Upper
75	100		
77	225.1	0.0	301.6





#73

Bromobenzene

Concen: 21.06 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

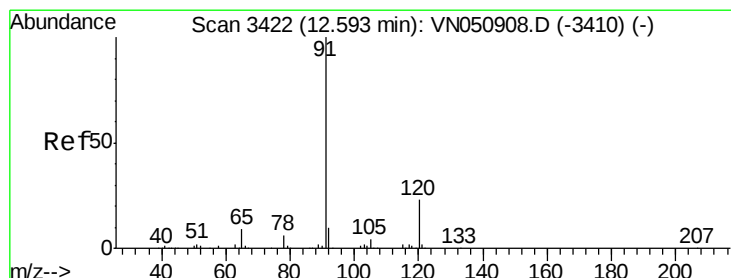
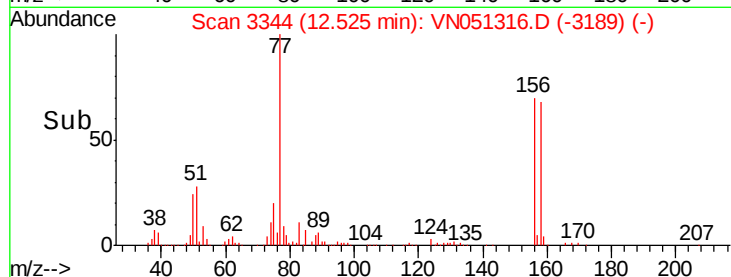
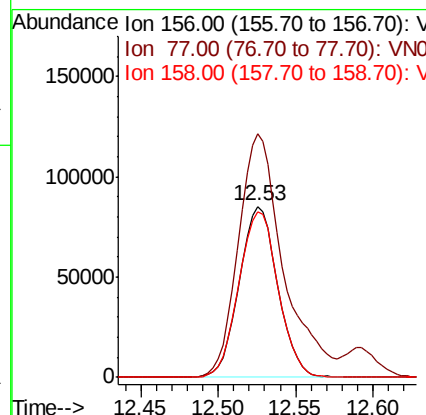
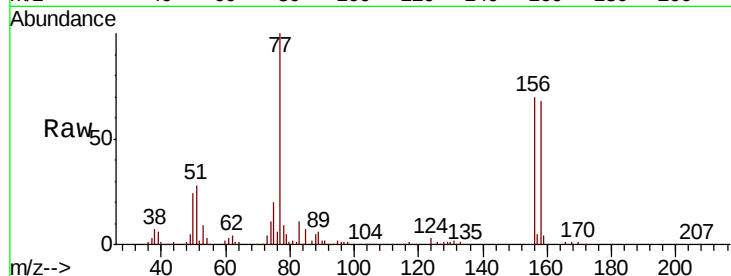
ClientSampleId :

VN0919WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	167.4	0.0	359.4		
158	99.2	0.0	194.6		

Manual Integrations
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#74

n-propylbenzene

Concen: 20.45 ug/l

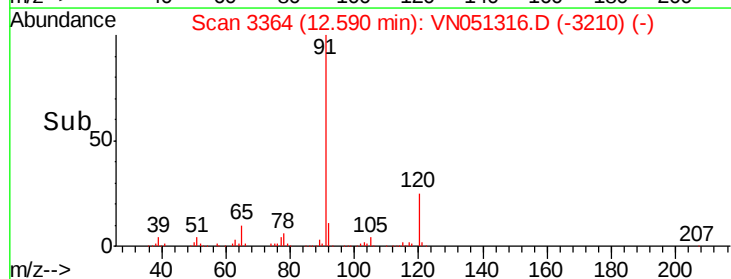
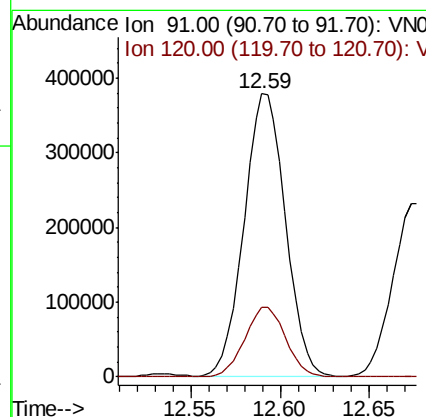
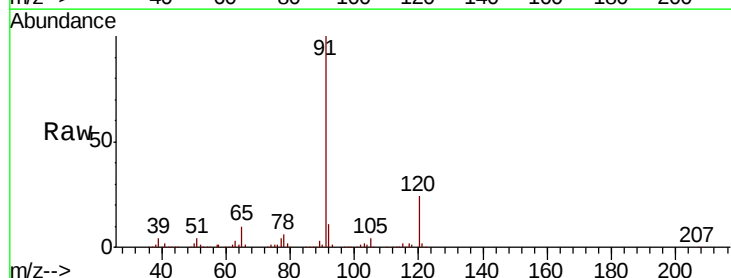
RT: 12.59 min Scan# 3364

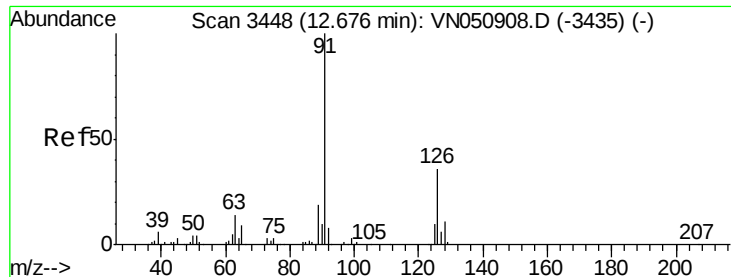
Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	24.3	0.0	46.0		





#75

2-Chlorotoluene

Concen: 21.08 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

ClientSampled :

VN0919WBSD01

Tot Ion: 91 Resp: 384726

Ion Ratio Lower Upper

91 100

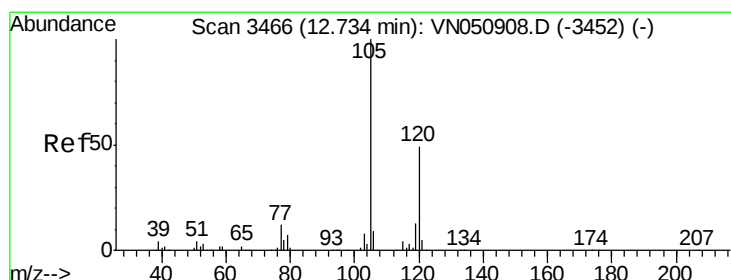
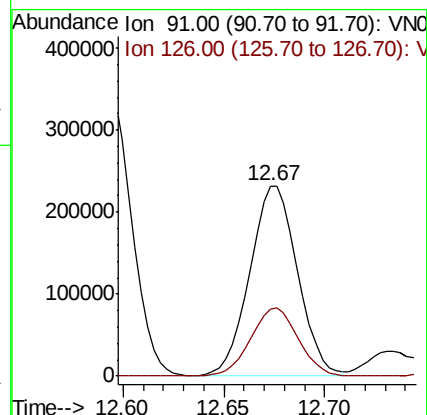
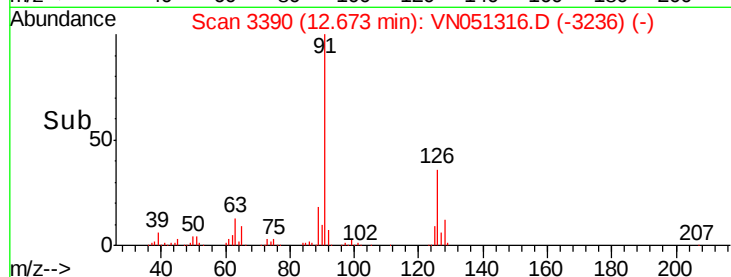
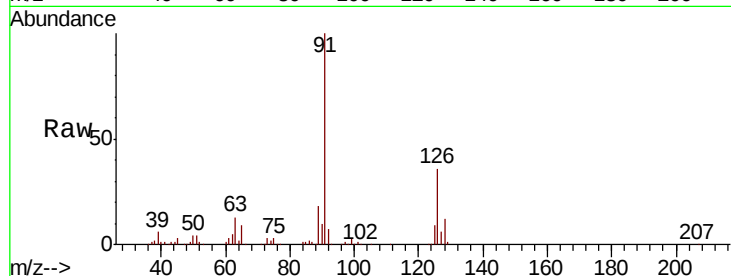
126 35.8 0.0 71.8

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 21.64 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051316.D

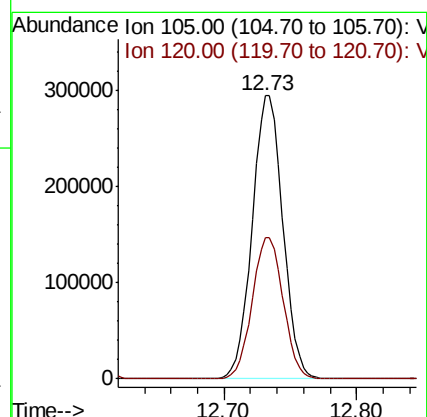
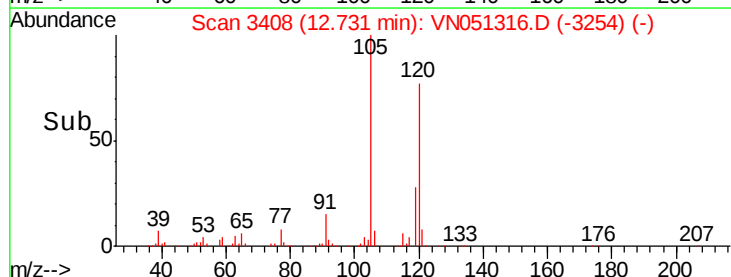
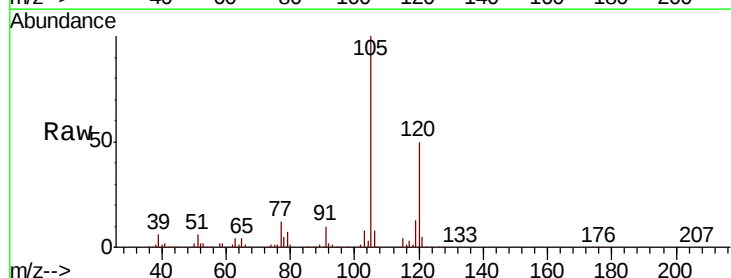
Acq: 19 Sep 2018 14:01

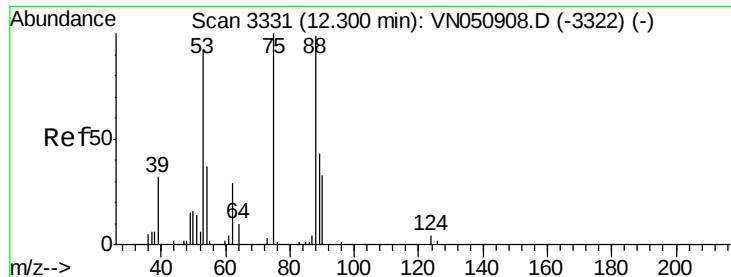
Tgt Ion: 105 Resp: 469826

Ion Ratio Lower Upper

105 100

120 50.6 0.0 99.6





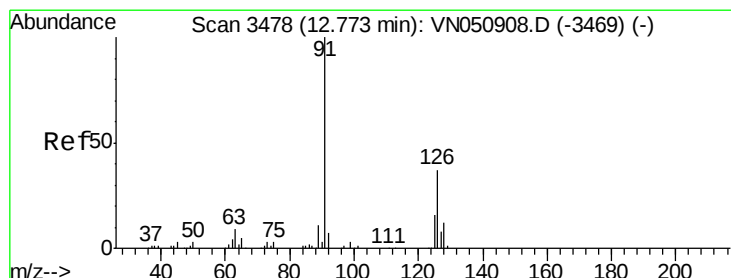
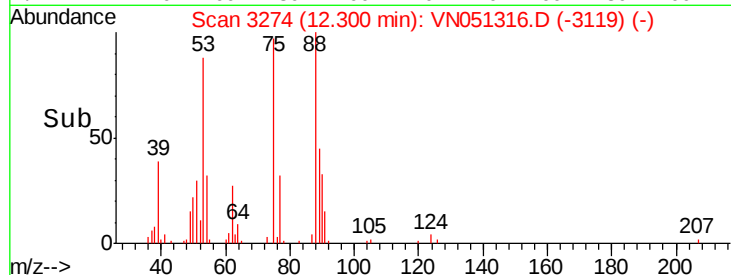
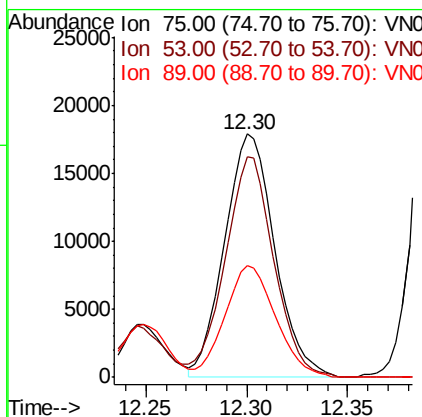
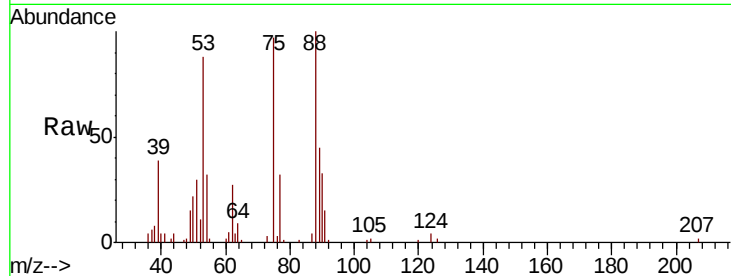
#77
t-1,4-Dichloro-2-butene
Concen: 17.64 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.6	45.5	136.4
89	46.1	21.9	65.8

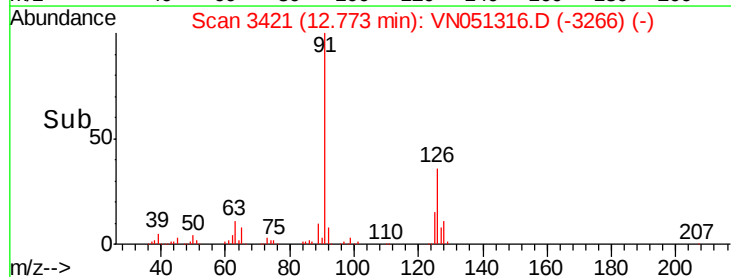
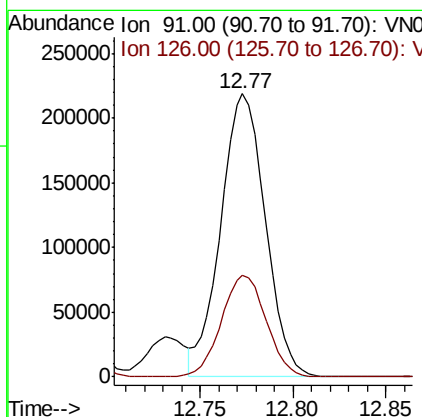
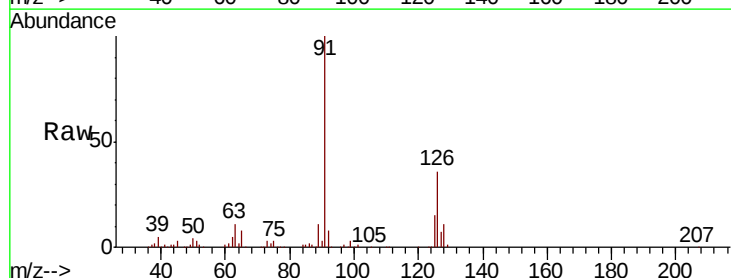
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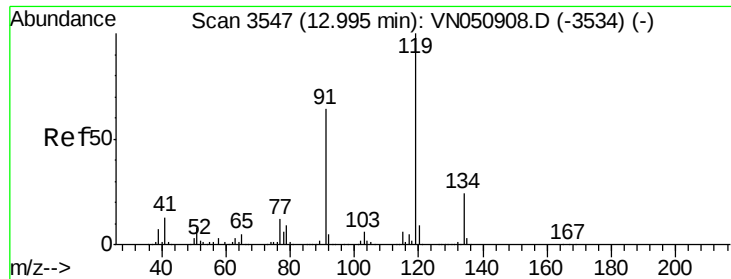
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#78
4-Chlorotoluene
Concen: 20.37 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.9	0.0	69.8





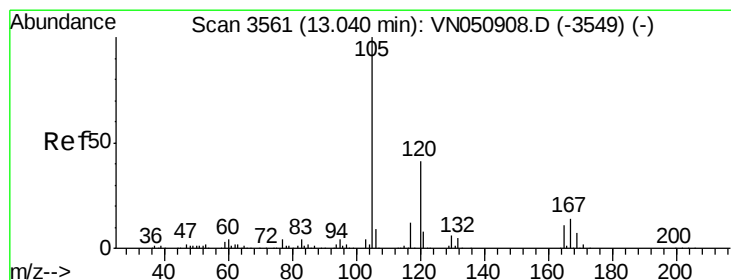
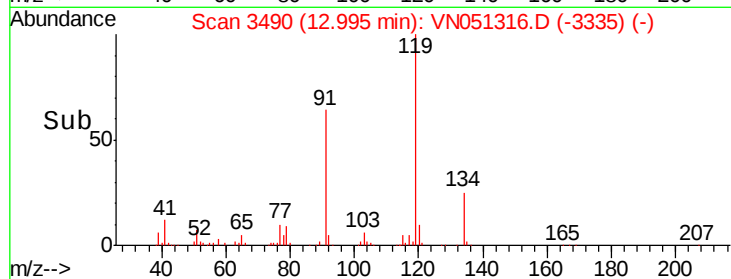
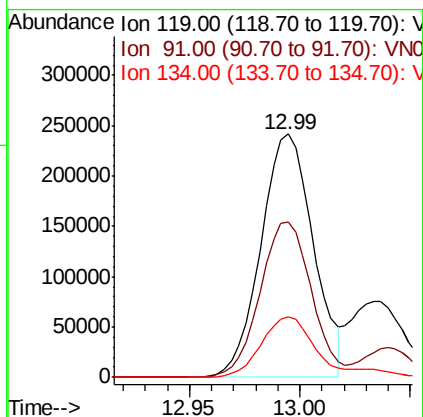
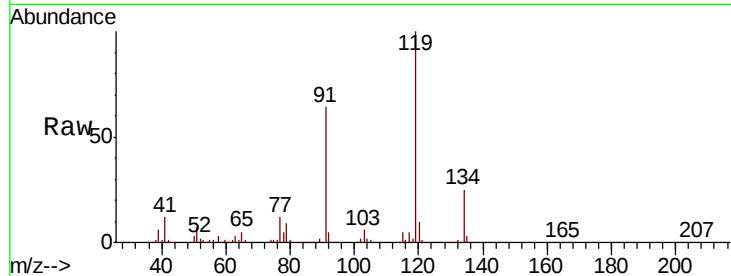
#79
tert-butylbenzene
Concen: 21.11 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	398001		
91	62.6		0.0	125.6
134	24.6		0.0	48.4

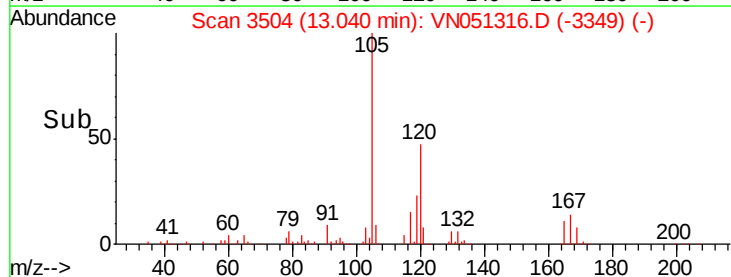
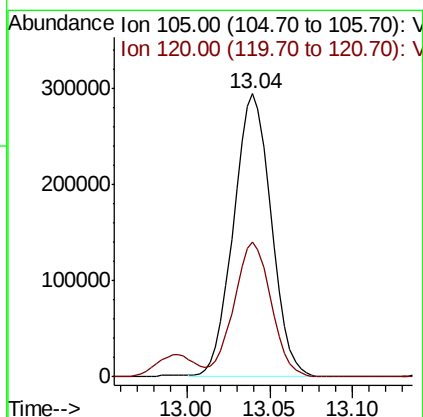
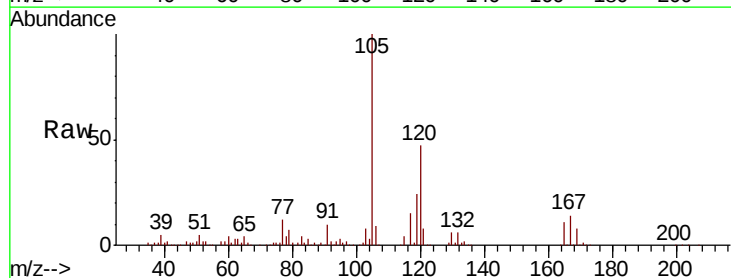
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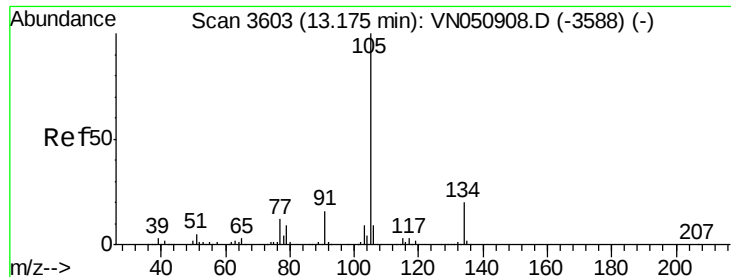
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#80
1,2,4-Trimethylbenzene
Concen: 21.50 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	465381		
120	47.1		0.0	93.6





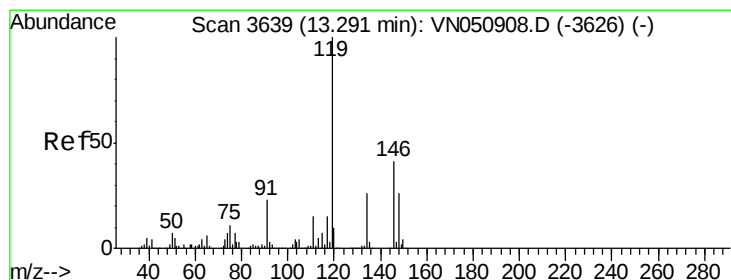
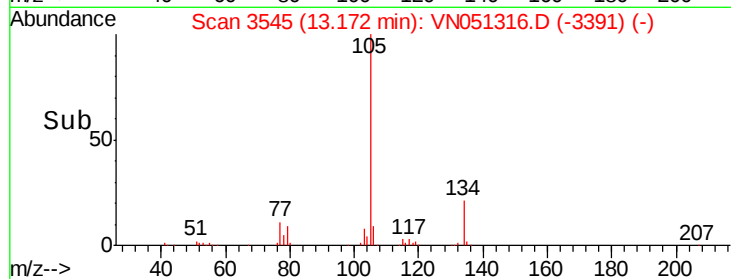
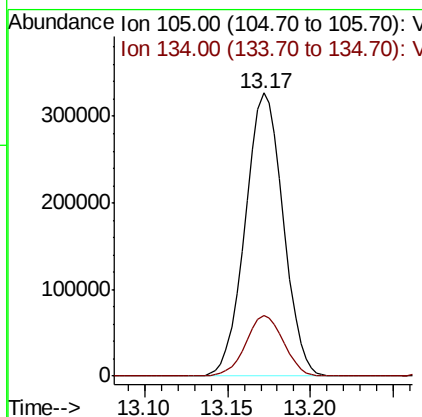
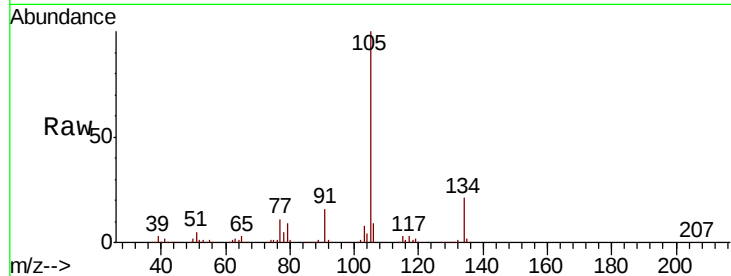
#81
 sec-Butylbenzene
 Concen: 21.11 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampled :
 VN0919WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	520781		
134	21.2	0.0	40.8	

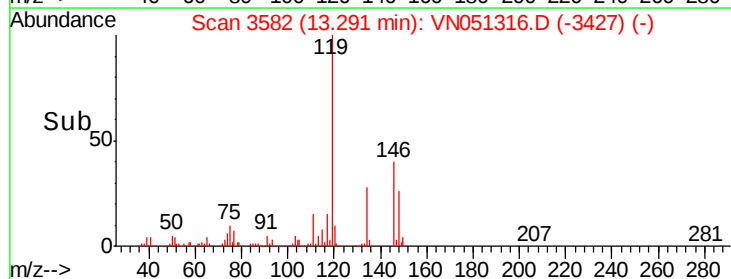
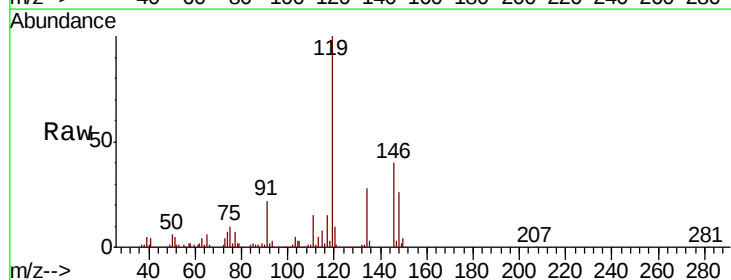
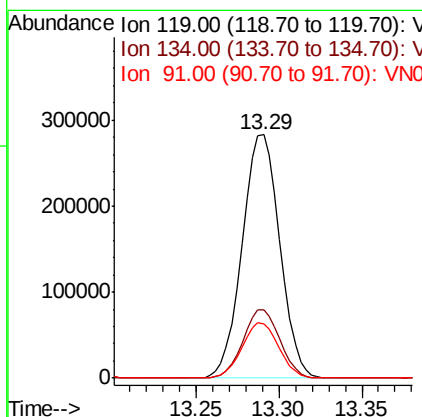
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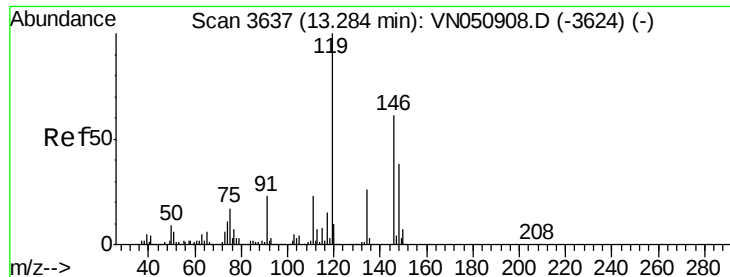
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#82
 p-Isopropyltoluene
 Concen: 20.90 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	444993		
134	27.5	0.0	53.2	
91	22.5	0.0	46.0	





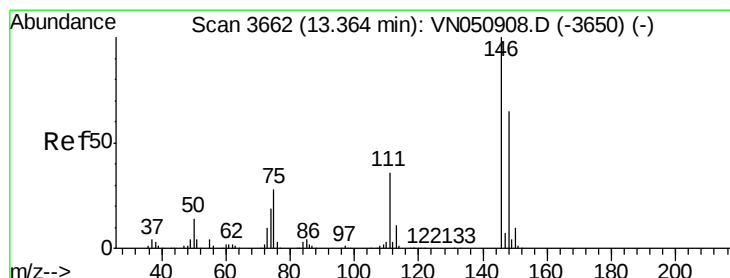
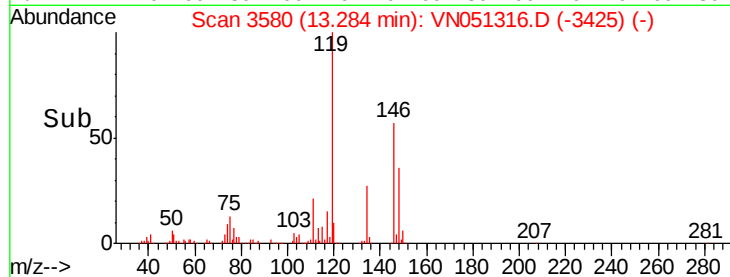
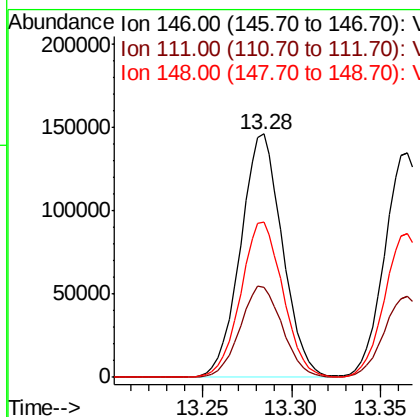
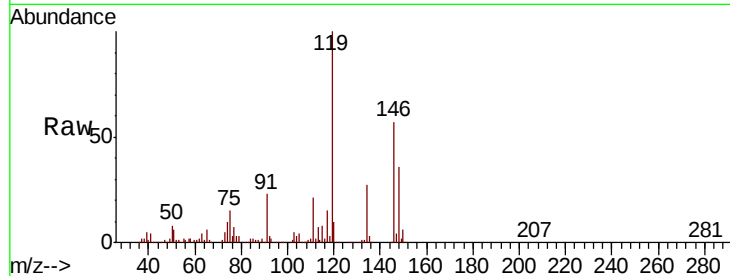
#83
 1,3-Dichlorobenzene
 Concen: 20.32 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.6	55.6
148	64.3	31.8	95.3

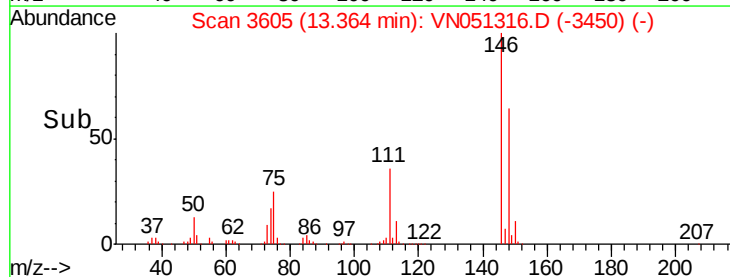
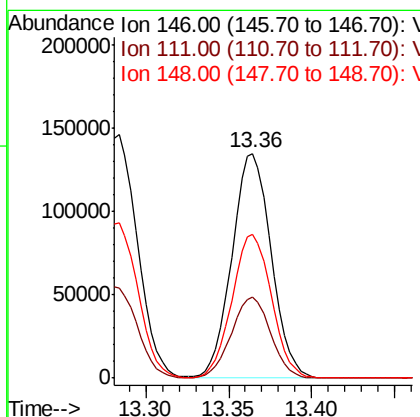
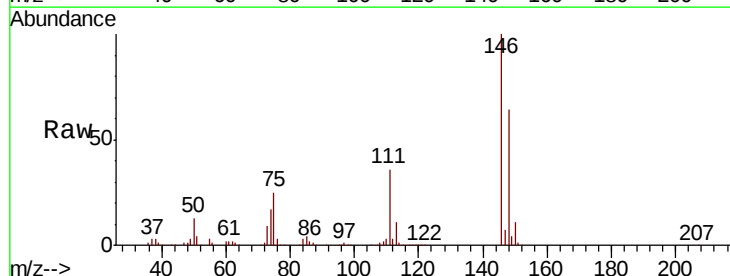
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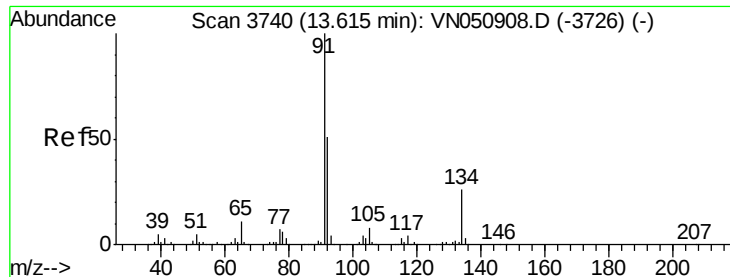
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#84
 1,4-Dichlorobenzene
 Concen: 19.87 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	17.7	53.1
148	64.3	31.6	94.8





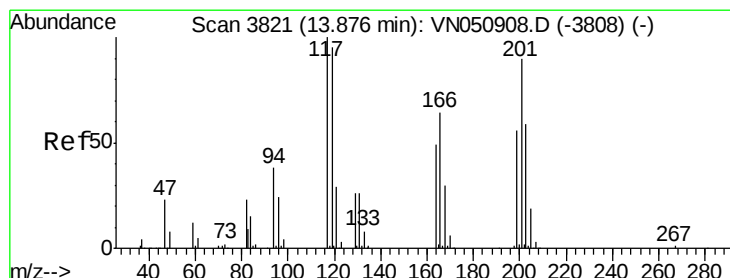
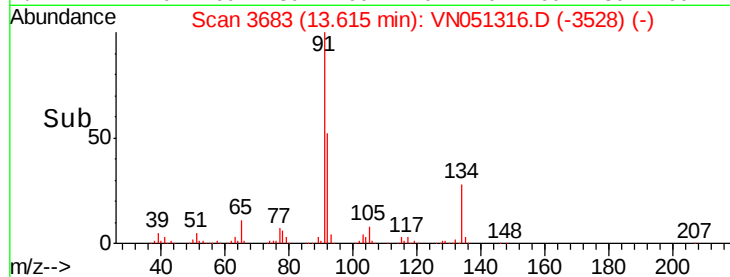
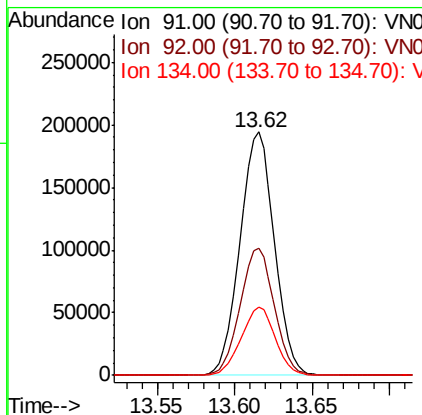
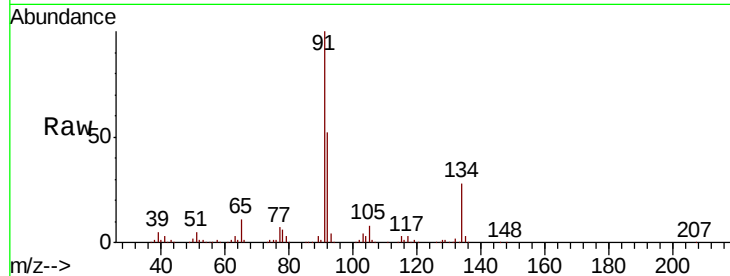
#85
n-Butylbenzene
Concen: 18.47 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampled :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	0.0	101.8
134	27.6	0.0	52.2

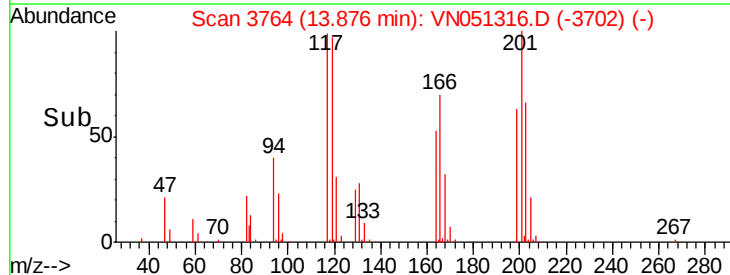
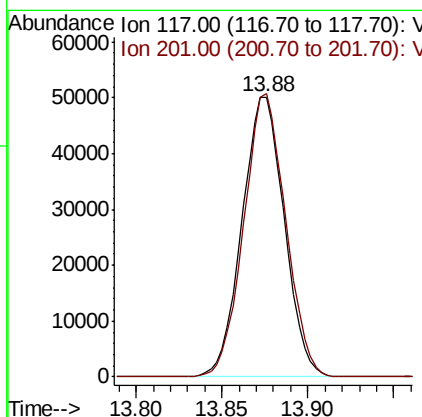
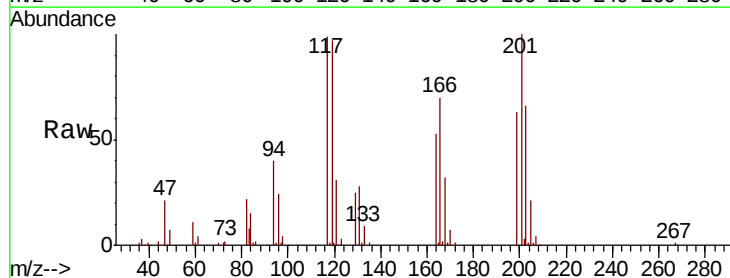
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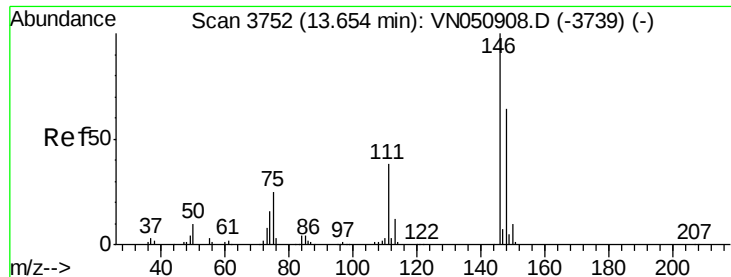
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#86
Hexachloroethane
Concen: 20.91 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	100.0	45.8	137.4





#87

1,2-Dichlorobenzene

Concen: 20.33 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN051316.D

Acq: 19 Sep 2018 14:01

Instrument :

MSVOA_N

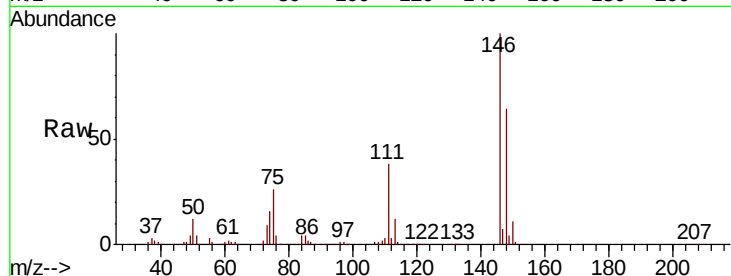
ClientSampled :

VN0919WBSD01

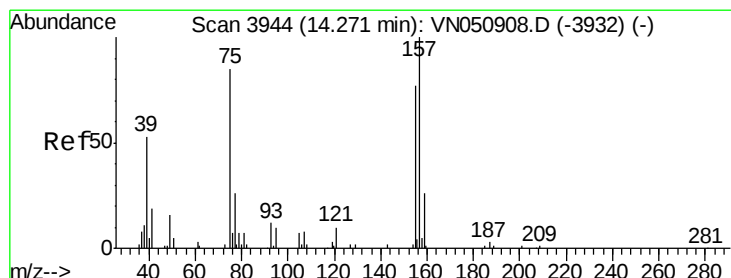
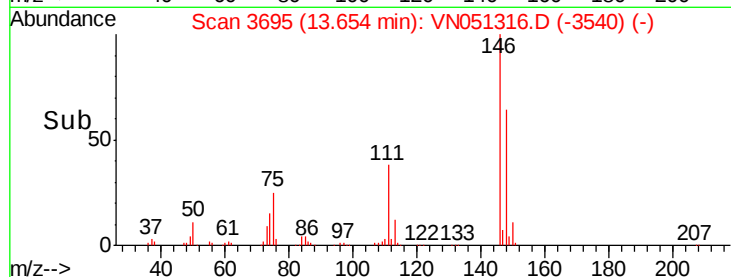
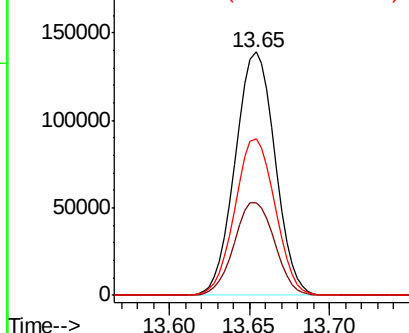
Tot Ion:	146	Resp:	236508
Ion Ratio	Lower	Upper	
146	100		
111	38.7	19.1	57.1
148	65.0	31.9	95.9

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.19 ug/l

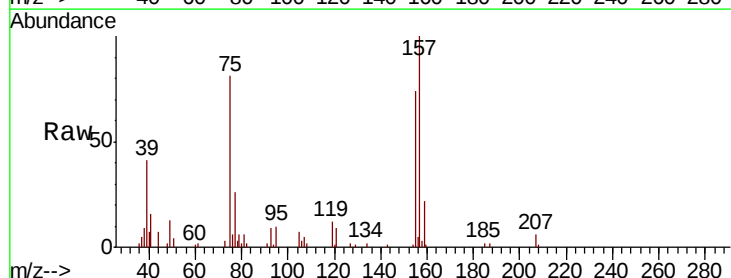
RT: 14.27 min Scan# 3887

Delta R.T. -0.00 min

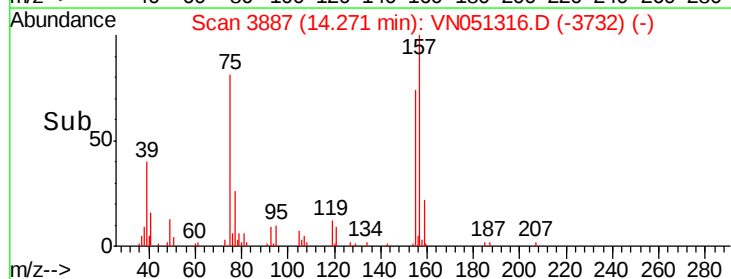
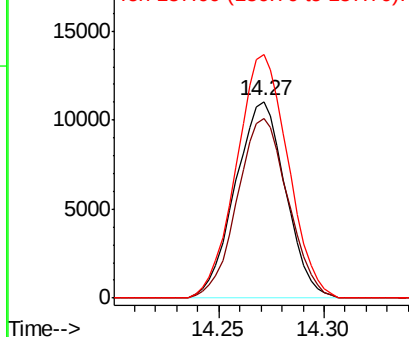
Lab File: VN051316.D

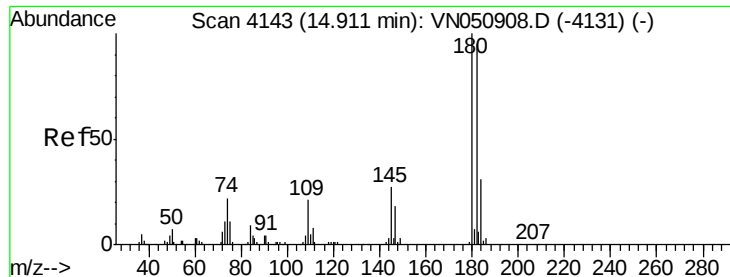
Acq: 19 Sep 2018 14:01

Tgt Ion:	75	Resp:	18309
Ion Ratio	Lower	Upper	
75	100		
155	91.9	71.8	107.6
157	127.1	91.1	136.7



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





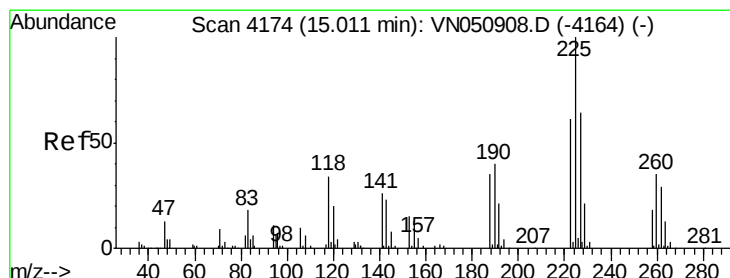
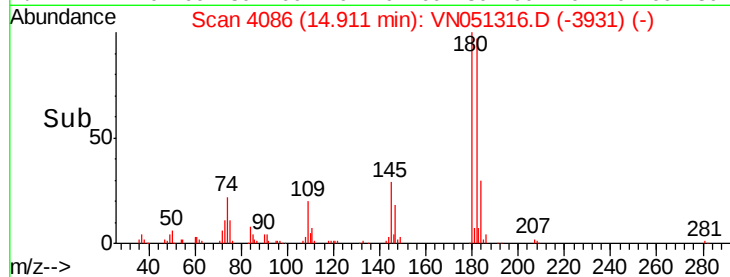
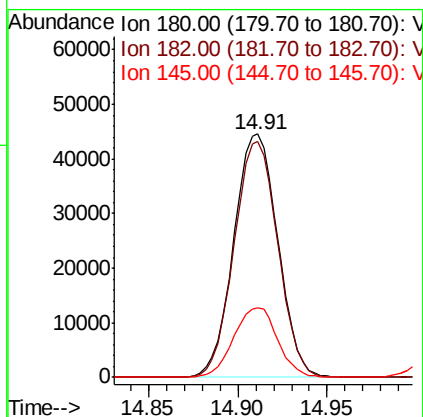
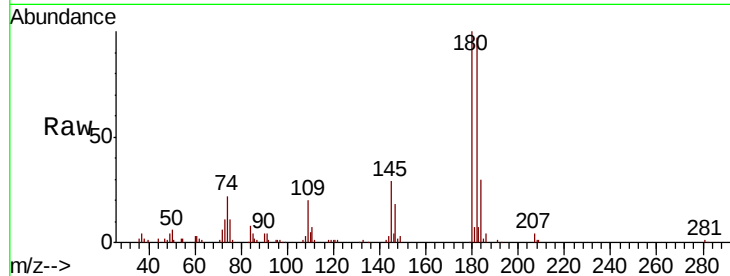
#89
 1,2,4-Trichlorobenzene
 Concen: 14.86 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.2	114.4
145	28.4	22.2	33.4

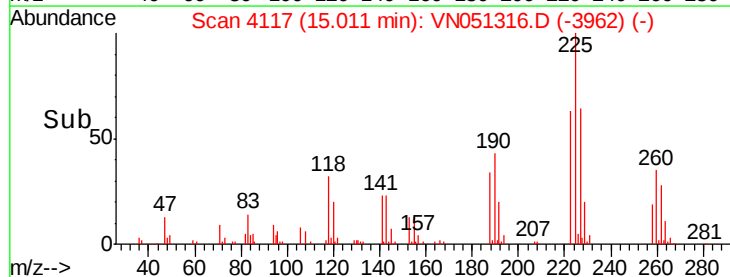
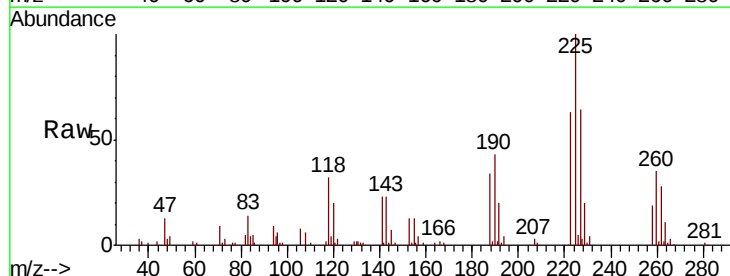
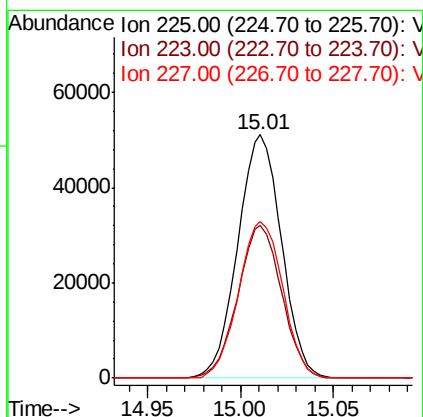
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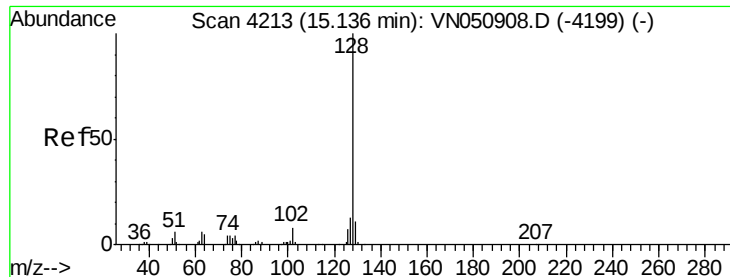
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#90
 Hexachlorobutadiene
 Concen: 23.83 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN051316.D
 Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	0.0	127.8
227	65.2	0.0	128.4





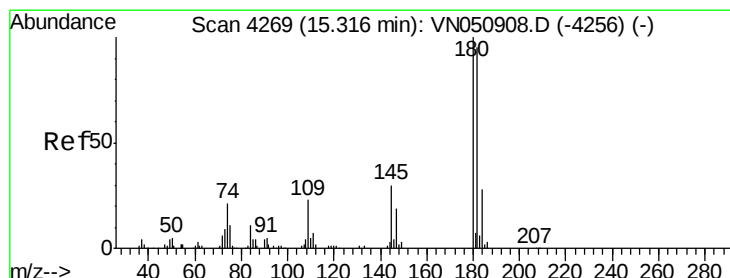
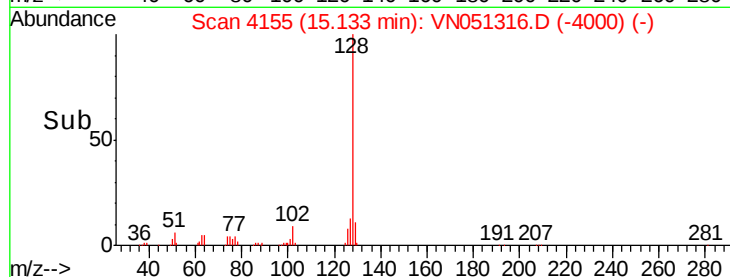
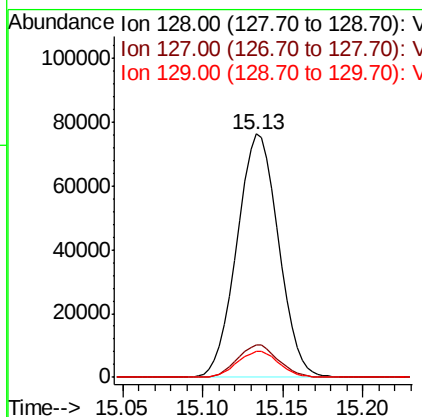
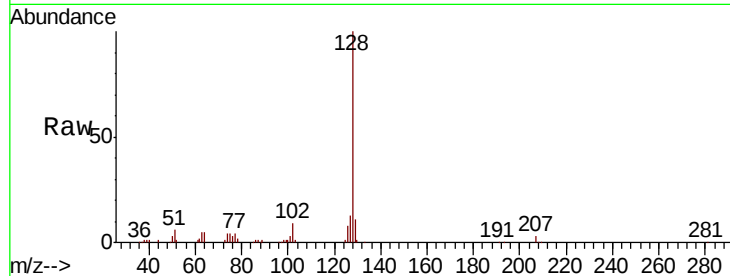
#91
Naphthalene
Concen: 16.96 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Instrument :
MSVOA_N
ClientSampleId :
VN0919WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	16.0
129	10.6	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
9/20/2018 1:42:08 PM



#92
1,2,3-Trichlorobenzene
Concen: 16.52 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN051316.D
Acq: 19 Sep 2018 14:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	0.0	192.8
145	28.1	0.0	60.0

