

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071718\
 Data File : VN049840.D
 Acq On : 17 Jul 2018 11:29
 Operator : MD\SY
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 7/18/2018 11:59:09 AM

Quant Time: Jul 17 12:28:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 17 12:26:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	582208	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	864093	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	787945	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	406125	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	160385	19.48	ug/l	0.00
Spiked Amount			Recovery	=	38.96%	
35) Dibromofluoromethane	7.59	113	141686	19.69	ug/l	0.00
Spiked Amount			Recovery	=	39.38%	
50) Toluene-d8	10.09	98	509934	19.10	ug/l	0.00
Spiked Amount			Recovery	=	38.20%	
62) 4-Bromofluorobenzene	12.40	95	162663	17.70	ug/l	0.00
Spiked Amount			Recovery	=	35.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	112499	17.18	ug/l	98
3) Chloromethane	2.06	50	151447	17.71	ug/l	99
4) Vinyl Chloride	2.18	62	168692	18.76	ug/l	100
5) Bromomethane	2.56	94	94370	14.50	ug/l	99
6) Chloroethane	2.70	64	106741	19.23	ug/l	98
7) Trichlorofluoromethane	3.01	101	227113	19.45	ug/l	99
8) Diethyl Ether	3.41	74	79193	18.35	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	136933	18.95	ug/l	99
10) Methyl Iodide	3.95	142	179859	21.73	ug/l	98
11) Tert butyl alcohol	4.81	59	62199	76.01	ug/l #	93
12) 1,1-Dichloroethene	3.73	96	122218	18.53	ug/l	98
13) Acrolein	3.61	56	52826	87.94	ug/l	98
14) Allyl chloride	4.32	41	193657	17.73	ug/l	98
15) Acrylonitrile	5.00	53	270100	88.07	ug/l	99
16) Acetone	3.83	43	211390	83.89	ug/l	99
17) Carbon Disulfide	4.04	76	363832	16.06	ug/l	100
18) Methyl Acetate	4.33	43	143102	15.66	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	355256	18.41	ug/l	98
20) Methylene Chloride	4.55	84	148093	18.34	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	132307	18.11	ug/l	99
22) Diisopropyl ether	5.96	45	417037	19.87	ug/l	97
23) Vinyl Acetate	5.90	43	1494713	92.46	ug/l	99
24) 1,1-Dichloroethane	5.85	63	255613	19.51	ug/l	99
25) 2-Butanone	6.85	43	325169	84.67	ug/l	99
26) 2,2-Dichloropropane	6.83	77	196421	18.59	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	147956	18.72	ug/l	99
28) Bromochloromethane	7.20	49	124130	20.97	ug/l	96
29) Tetrahydrofuran	7.22	42	214637	86.42	ug/l	100
30) Chloroform	7.37	83	261224	19.36	ug/l	98
31) Cyclohexane	7.65	56	209847	16.15	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	224929	19.62	ug/l	99
36) 1,1-Dichloropropene	7.79	75	189121	18.94	ug/l	99
37) Ethyl Acetate	6.94	43	141076	17.88	ug/l	98
38) Carbon Tetrachloride	7.78	117	198490	19.33	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	188200	17.86	ug/l	96
40) Benzene	8.04	78	584813	19.37	ug/l	100
41) Methacrylonitrile	7.19	41	76843m	20.42	ug/l	
42) 1,2-Dichloroethane	8.13	62	194836	19.61	ug/l	99
43) Isopropyl Acetate	8.17	43	248310	13.11	ug/l	99
44) Trichloroethene	8.84	130	150261	18.82	ug/l	98
45) 1,2-Dichloropropane	9.12	63	153623	19.72	ug/l	98
46) Dibromomethane	9.21	93	98500	19.04	ug/l	98
47) Bromodichloromethane	9.41	83	203589	19.78	ug/l	100
48) Methyl methacrylate	9.20	41	119206	17.78	ug/l	98
49) 1,4-Dioxane	9.21	88	35449	324.24	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	727451	89.93	ug/l	99
52) Toluene	10.16	92	355850	19.60	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	194216	18.25	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	221847	19.08	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	140725	19.20	ug/l	97
56) Ethyl methacrylate	10.43	69	170580	17.64	ug/l	98
57) 1,3-Dichloropropane	10.71	76	229129	19.10	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	423041	93.80	ug/l	99
59) 2-Hexanone	10.76	43	491587	85.72	ug/l	98
60) Dibromochloromethane	10.90	129	160318	19.60	ug/l	98
61) 1,2-Dibromoethane	11.01	107	138849	19.02	ug/l	99
64) Tetrachloroethene	10.63	164	138865	19.10	ug/l	98
65) Chlorobenzene	11.44	112	380873	18.69	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	149578	19.75	ug/l	100
67) Ethyl Benzene	11.51	91	628677	18.85	ug/l	99
68) m/p-Xylenes	11.62	106	496717	39.08	ug/l	99
69) o-Xylene	11.95	106	232579	19.25	ug/l	99
70) Styrene	11.97	104	385797	19.50	ug/l	99
71) Bromoform	12.13	173	112802	18.73	ug/l #	99
73) Isopropylbenzene	12.25	105	626288	19.39	ug/l	100
74) N-amyl acetate	12.07	43	196105	17.34	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	193730	18.47	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	155588m	17.75	ug/l	
77) Bromobenzene	12.53	156	166454	18.94	ug/l	98
78) n-propylbenzene	12.59	91	712569	19.45	ug/l	100
79) 2-Chlorotoluene	12.68	91	437371	19.26	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	514847	20.10	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	49877	17.96	ug/l	96
82) 4-Chlorotoluene	12.78	91	439579	19.07	ug/l	99
83) tert-Butylbenzene	13.00	119	435688	19.22	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	525065	20.12	ug/l	99
85) sec-Butylbenzene	13.17	105	593794	19.72	ug/l	99
86) p-Isopropyltoluene	13.29	119	508841	19.82	ug/l	100
87) 1,3-Dichlorobenzene	13.29	146	286018	18.34	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	276937	17.49	ug/l	98
89) n-Butylbenzene	13.62	91	390707	18.05	ug/l	99
90) Hexachloroethane	13.88	117	100867	18.50	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	292102	19.00	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	29909	16.19	ug/l	97

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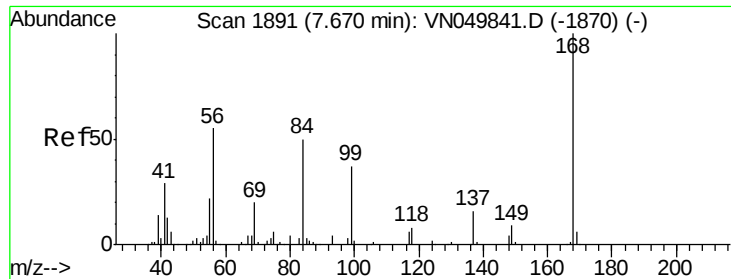
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	133390	17.08	ug/l	98
94) Hexachlorobutadiene	15.01	225	88438	18.46	ug/l	99
95) Naphthalene	15.14	128	304492	15.66	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	140842	17.14	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 582208

Ion Ratio Lower Upper

168 100

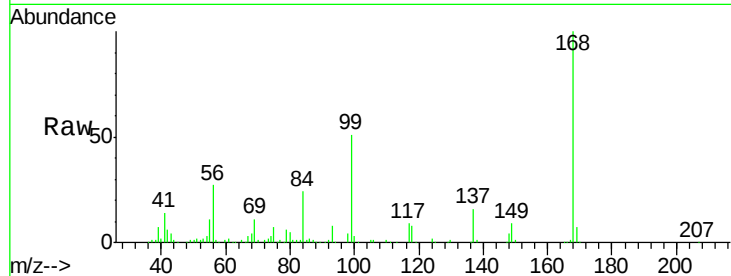
99 50.4 40.6 61.0

Manual Integrations

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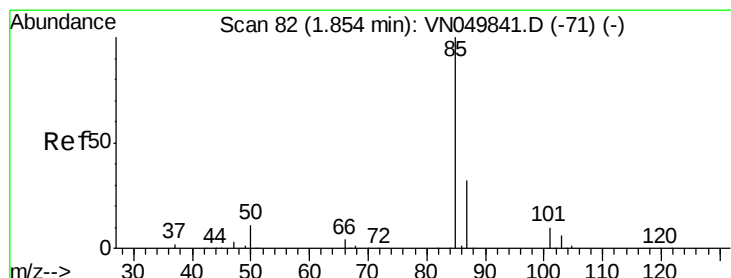
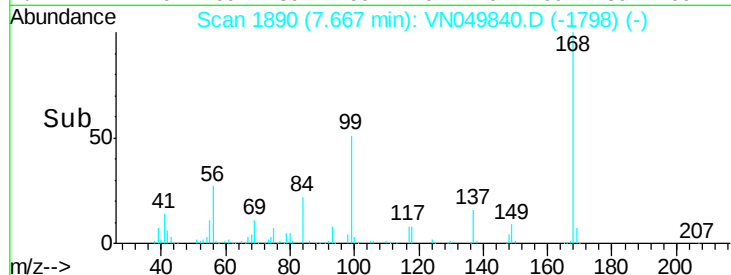
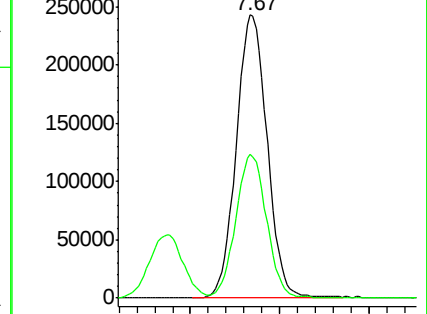
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 17.18 ug/l

RT: 1.85 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN049840.D

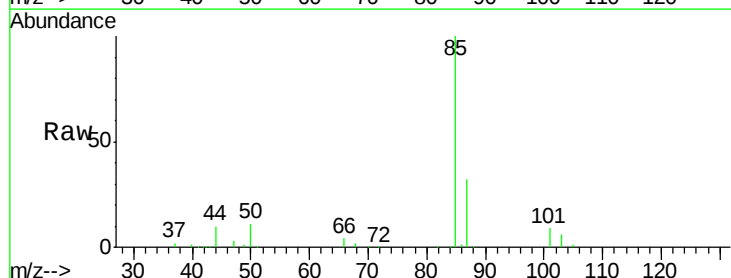
Acq: 17 Jul 2018 11:29

Tgt Ion: 85 Resp: 112499

Ion Ratio Lower Upper

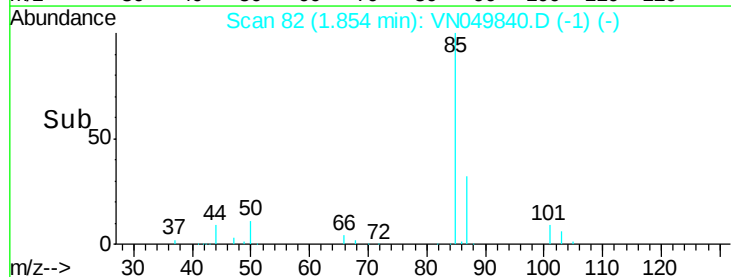
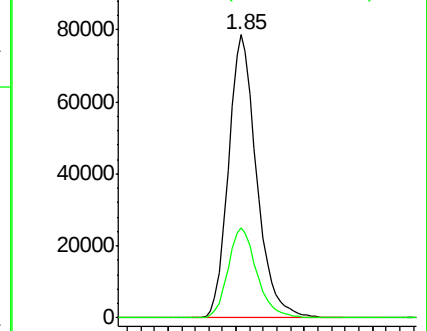
85 100

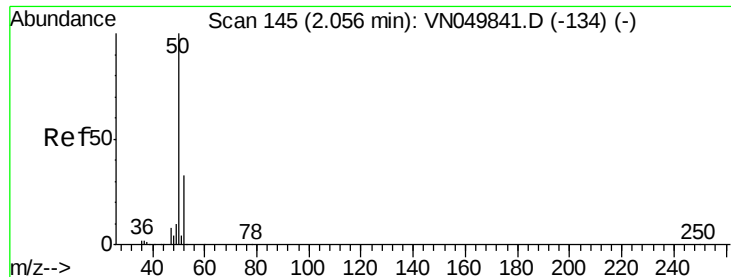
87 32.0 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 17.71 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 151447

Ion Ratio Lower Upper

50 100

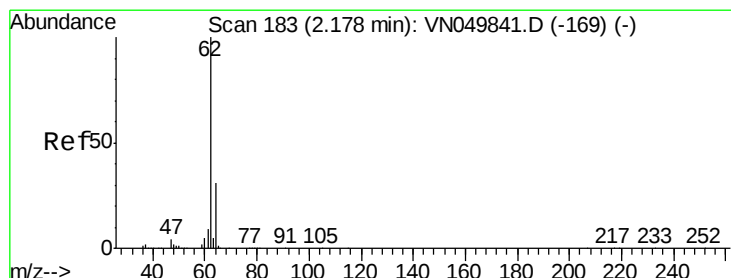
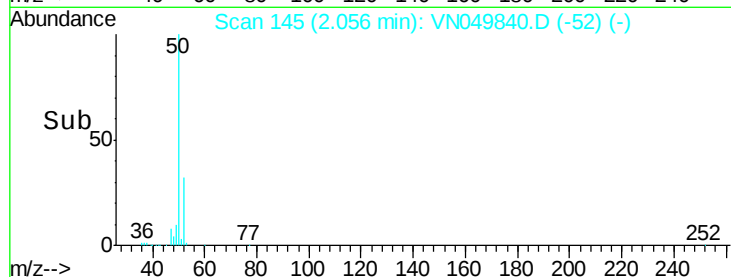
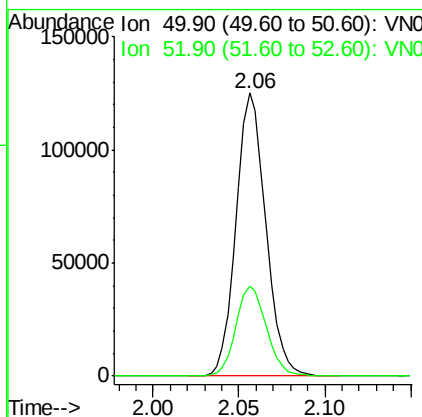
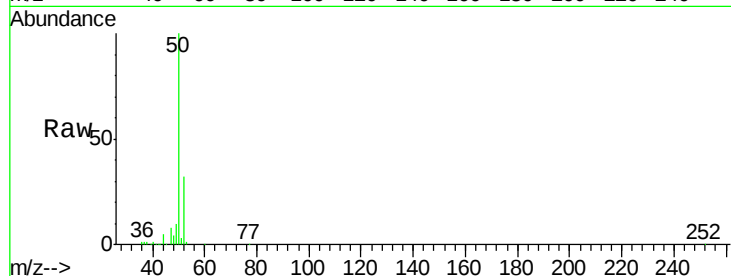
52 32.0 26.1 39.1

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#4

Vinyl Chloride

Concen: 18.76 ug/l

RT: 2.18 min Scan# 183

Delta R.T. -0.00 min

Lab File: VN049840.D

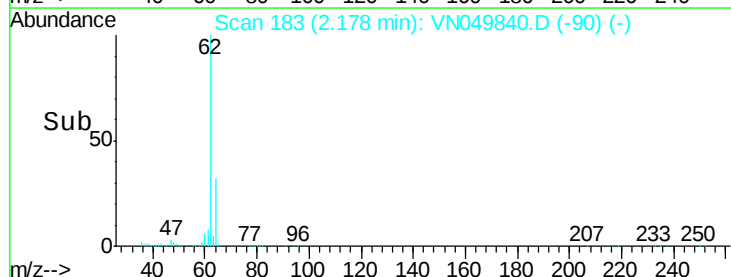
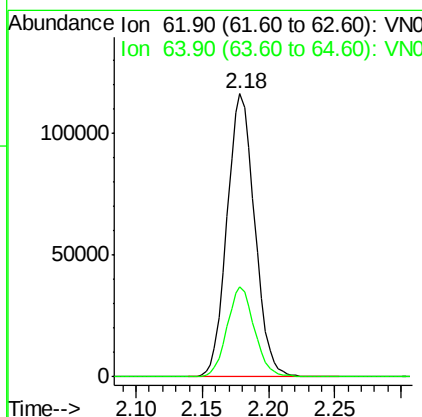
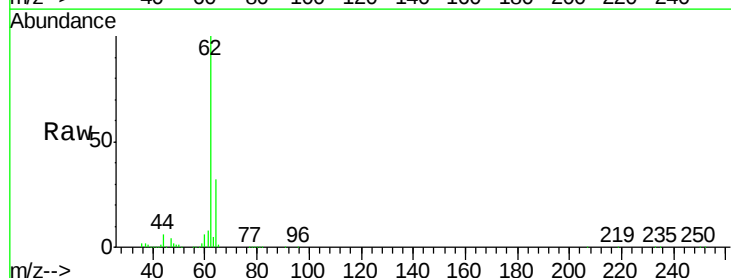
Acq: 17 Jul 2018 11:29

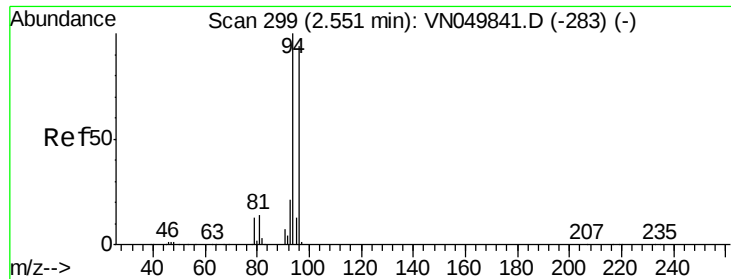
Tgt Ion: 62 Resp: 168692

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.0





#5

Bromomethane

Concen: 14.50 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 94 Resp: 94370

Ion Ratio Lower Upper

94 100

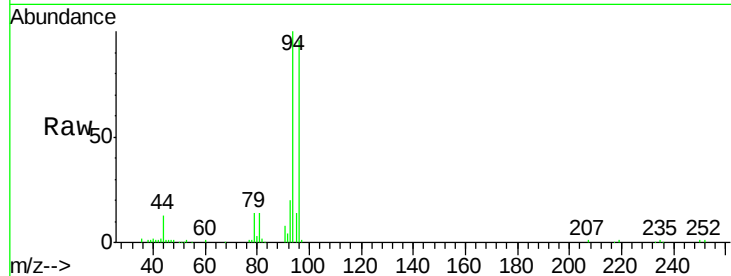
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Manual Integrations

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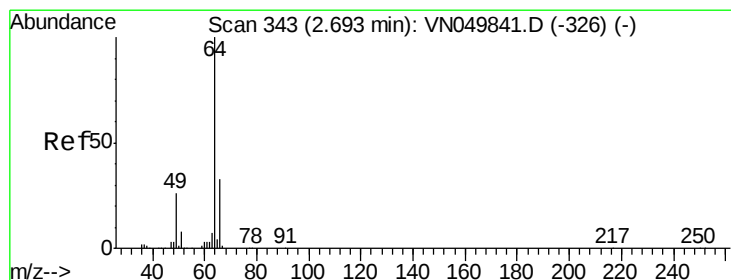
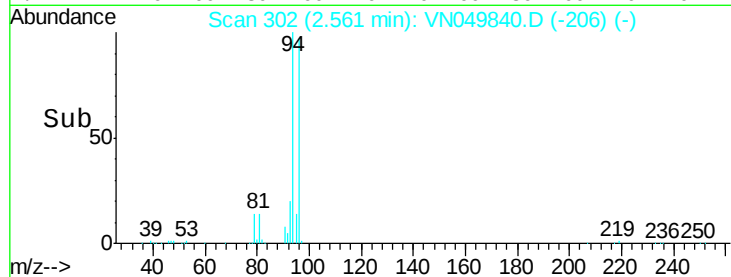
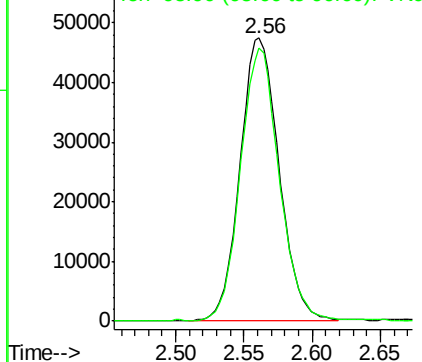
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.23 ug/l

RT: 2.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VN049840.D

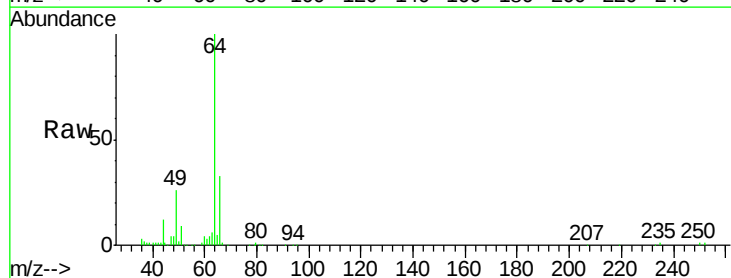
Acq: 17 Jul 2018 11:29

Tgt Ion: 64 Resp: 106741

Ion Ratio Lower Upper

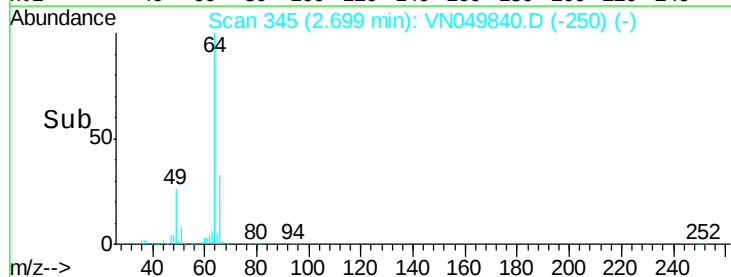
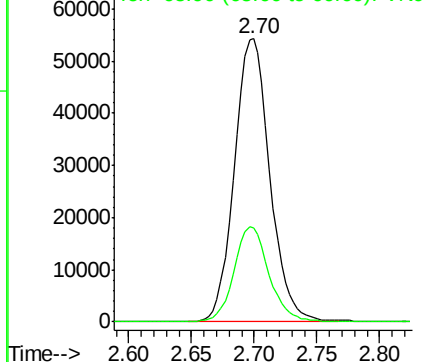
64 100

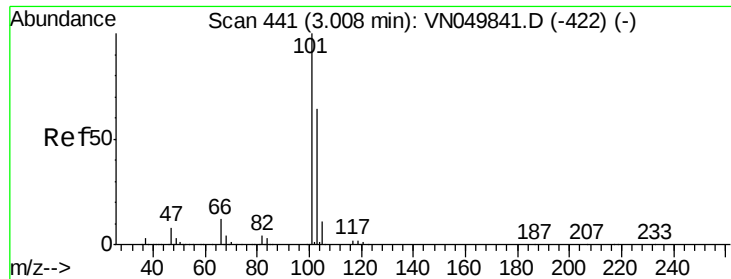
66 33.3 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

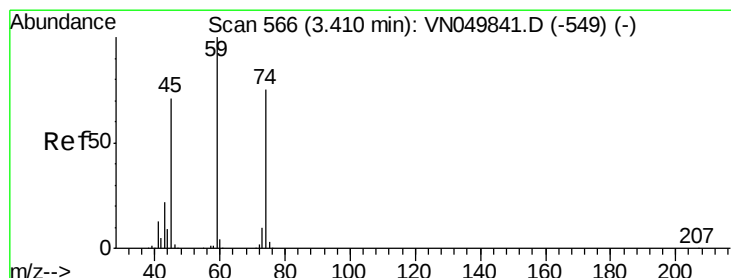
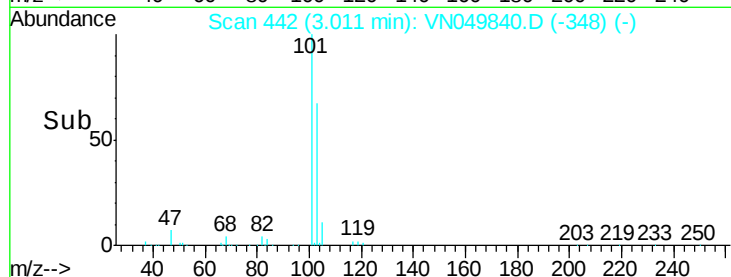
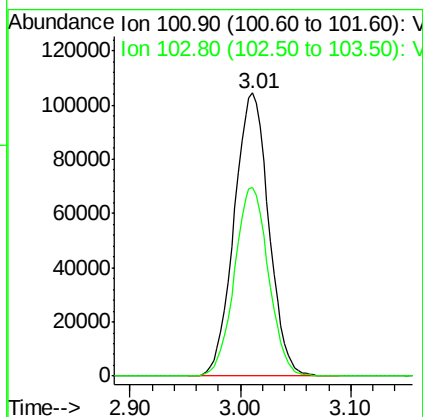
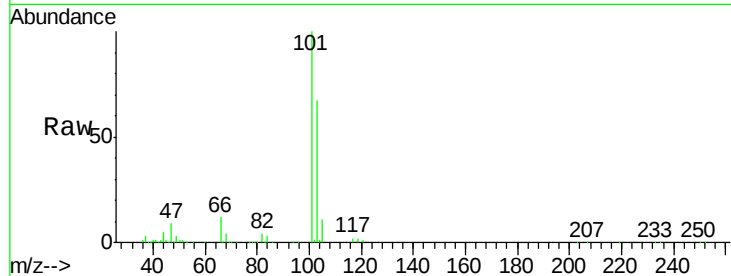
Trichlorofluoromethane
 Concen: 19.45 ug/l
 RT: 3.01 min Scan# 442
 Delta R.T. 0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.8	52.8	79.2

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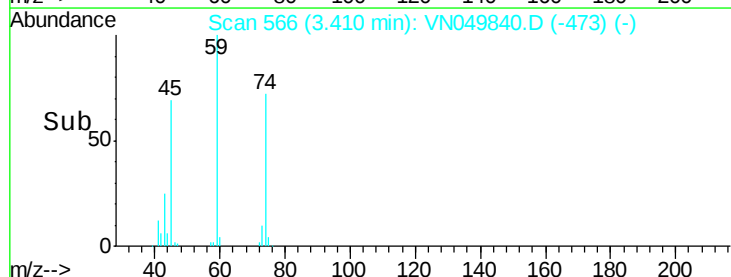
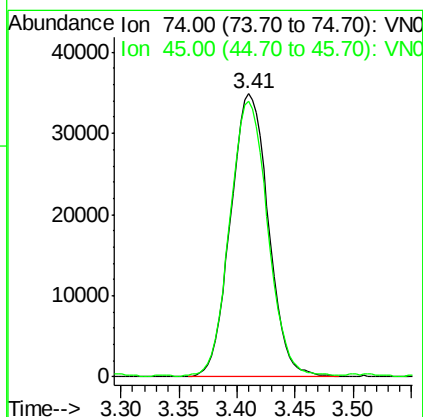
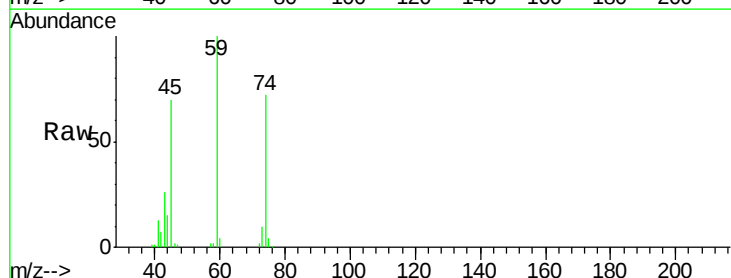
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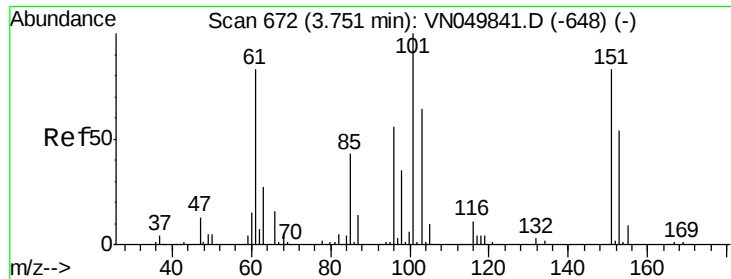


#8

Diethyl Ether
 Concen: 18.35 ug/l
 RT: 3.41 min Scan# 566
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.2	48.4	145.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.95 ug/l

RT: 3.75 min Scan# 672

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

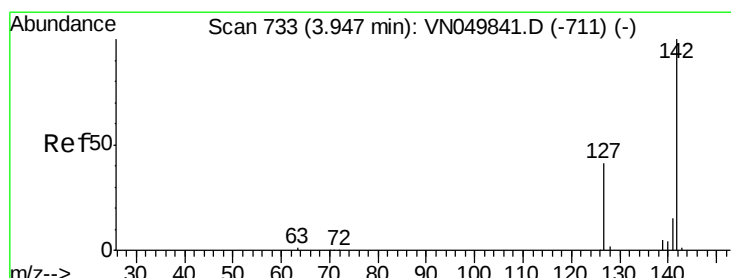
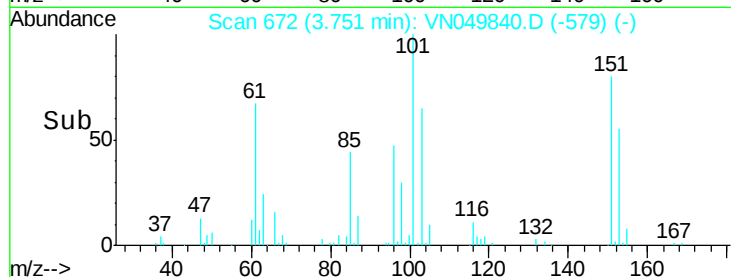
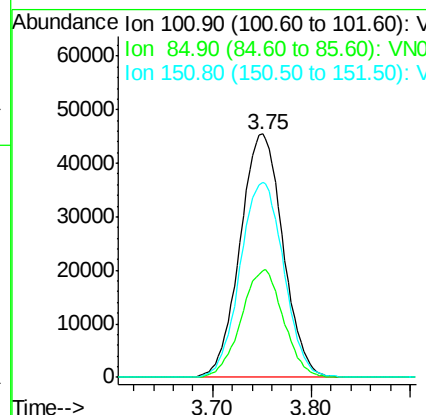
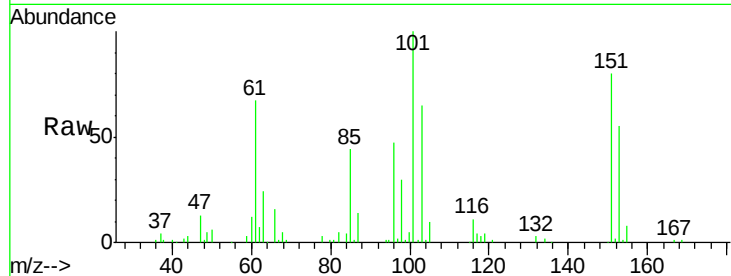
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	136933
Ion Ratio	Lower	Upper	
101	100		
85	43.4	34.4	51.6
151	81.5	66.2	99.4

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#10

Methyl Iodide

Concen: 21.73 ug/l

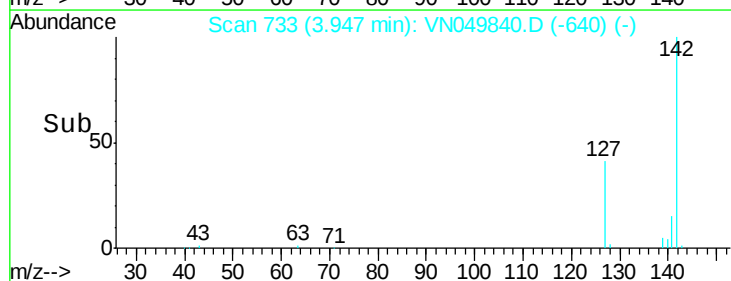
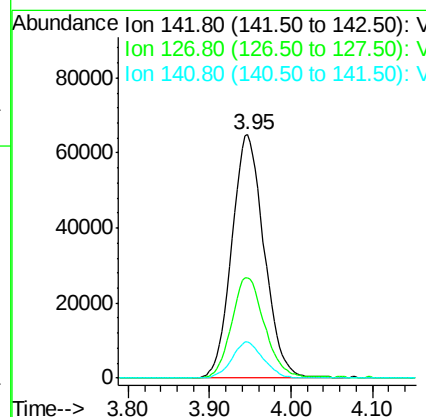
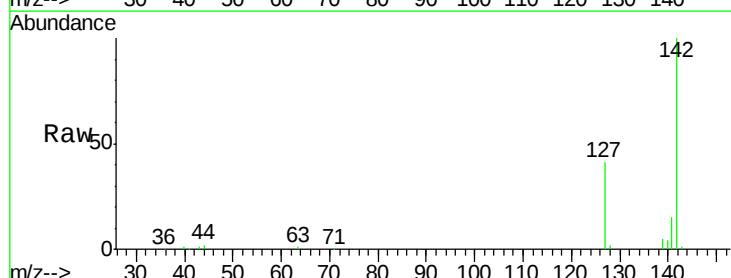
RT: 3.95 min Scan# 733

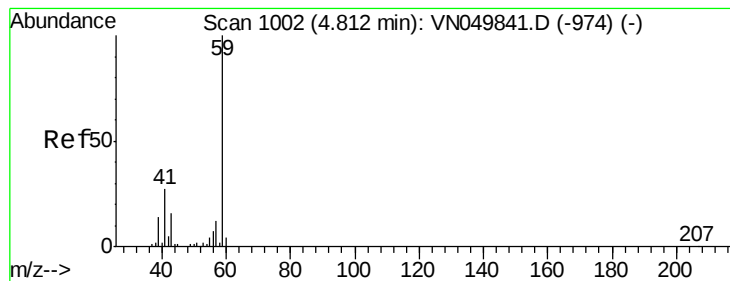
Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Tgt Ion:	142	Resp:	179859
Ion Ratio	Lower	Upper	
142	100		
127	42.1	32.5	48.7
141	14.4	11.1	16.7





#11

Tert butyl alcohol

Concen: 76.01 ug/l

RT: 4.81 min Scan# 1002

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 59 Resp: 62199

Ion Ratio Lower Upper

59 100

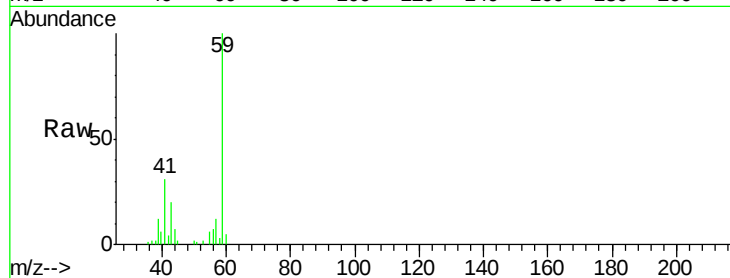
57 7.8 8.5 12.7#

Manual Integrations

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Abundance Ion 59.00 (58.70 to 59.70): VN049840.D (-909) (-)

Ion 57.00 (56.70 to 57.70): VN049840.D (-909) (-)

4.81

20000

15000

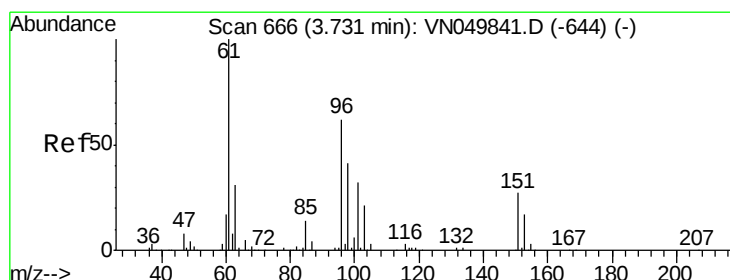
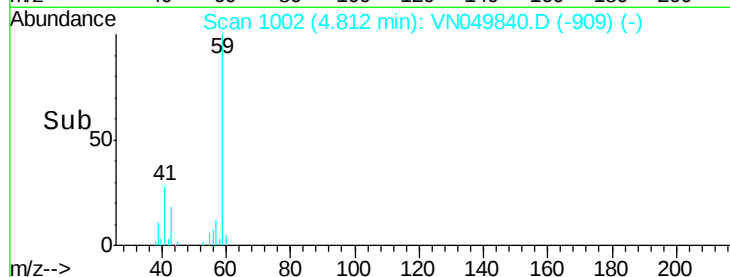
10000

5000

0

4.70 4.80 4.90

Time-->



#12

1,1-Dichloroethene

Concen: 18.53 ug/l

RT: 3.73 min Scan# 666

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

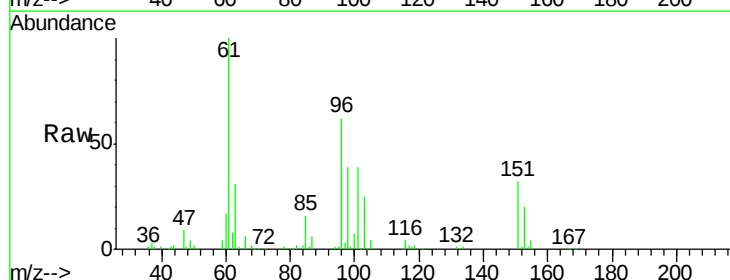
Tgt Ion: 96 Resp: 122218

Ion Ratio Lower Upper

96 100

61 160.9 126.5 189.7

98 63.6 51.0 76.6



Abundance Ion 95.90 (95.60 to 96.60): VN049840.D (-573) (-)

Ion 60.90 (60.60 to 61.60): VN049840.D (-573) (-)

Ion 97.90 (97.60 to 98.60): VN049840.D (-573) (-)

3.73

100000

80000

60000

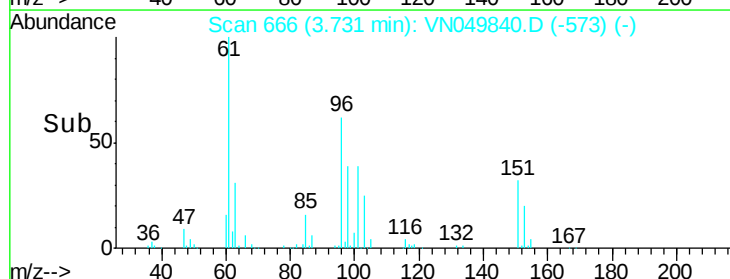
40000

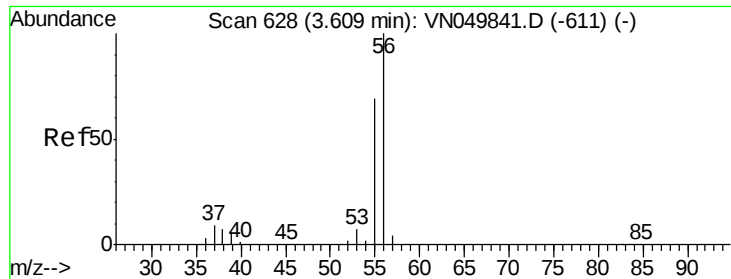
20000

0

3.65 3.70 3.75 3.80

Time-->





#13

Acrolein

Concen: 87.94 ug/l

RT: 3.61 min Scan# 628

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 56 Resp: 52826

Ion Ratio Lower Upper

56 100

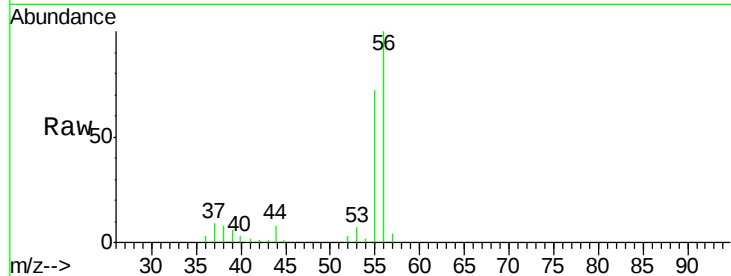
55 71.6 55.8 83.8

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Abundance Ion 56.00 (55.70 to 56.70): VN049840.D (-535) (-)

Ion 55.00 (54.70 to 55.70): VN049840.D (-535) (-)

3.61

25000

20000

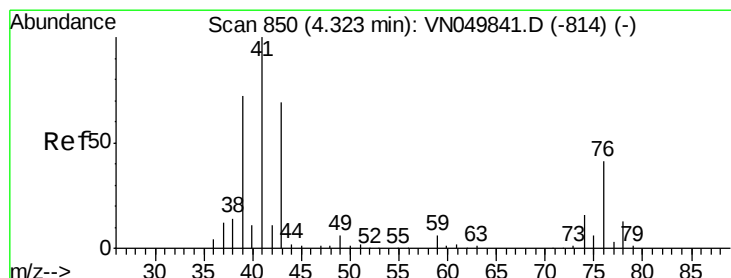
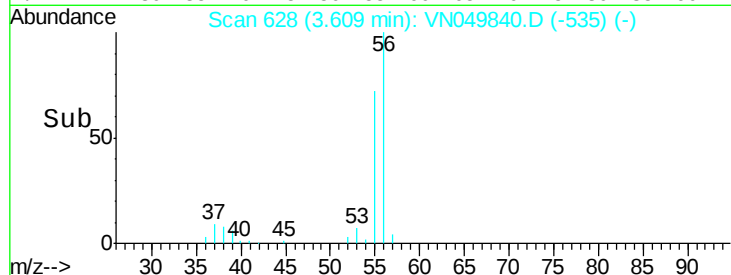
15000

10000

5000

0

Time-->



#14

Allyl chloride

Concen: 17.73 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

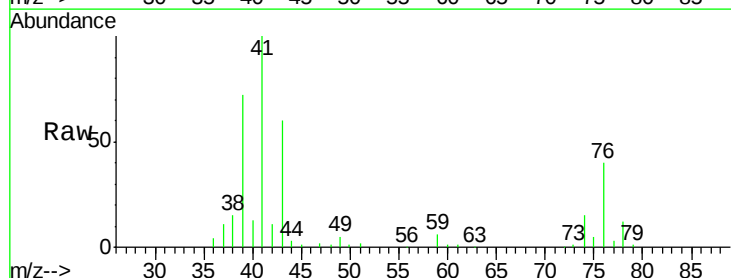
Tgt Ion: 41 Resp: 193657

Ion Ratio Lower Upper

41 100

39 68.2 53.2 79.8

76 35.9 29.0 43.6



Abundance Ion 41.00 (40.70 to 41.70): VN049840.D (-757) (-)

Ion 39.00 (38.70 to 39.70): VN049840.D (-757) (-)

Ion 75.90 (75.60 to 76.60): VN049840.D (-757) (-)

4.32

80000

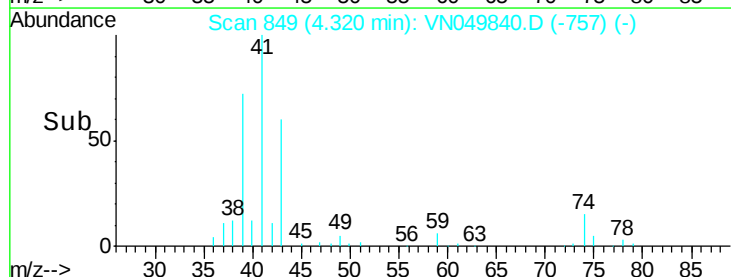
60000

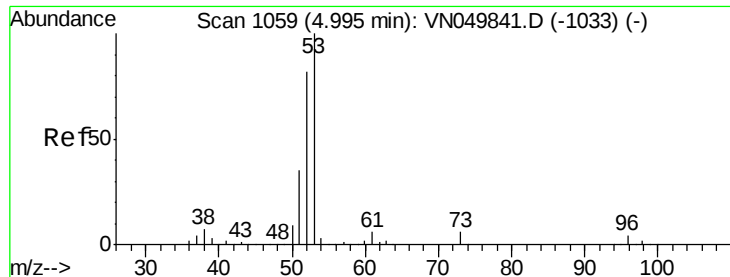
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 88.07 ug/l

RT: 5.00 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

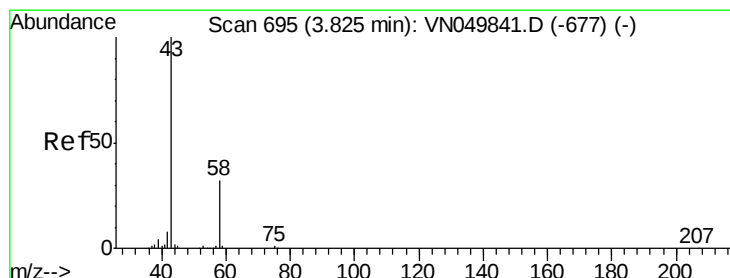
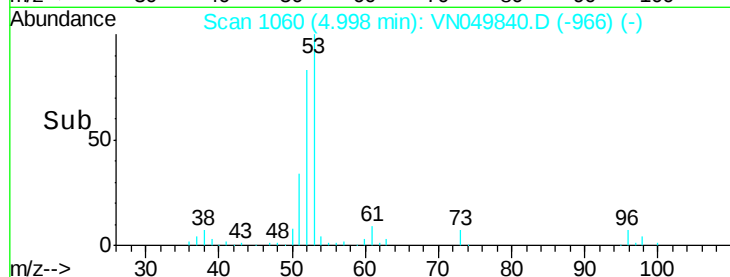
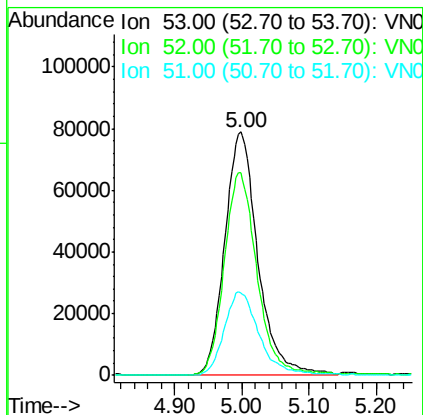
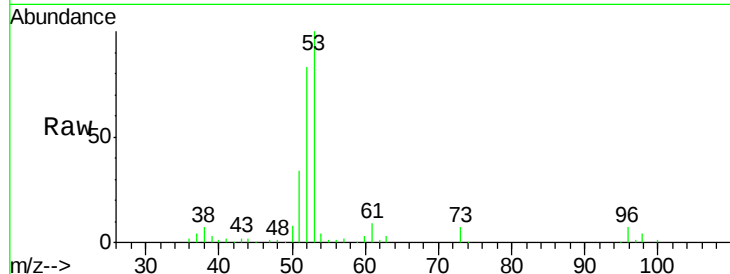
ClientSampled :

VSTDIC020

Tot Ion:	53	Resp:	270100
Ion	Ratio	Lower	Upper
53	100		
52	82.6	64.8	97.2
51	36.1	28.9	43.3

Manual Integrations
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#16

Acetone

Concen: 83.89 ug/l

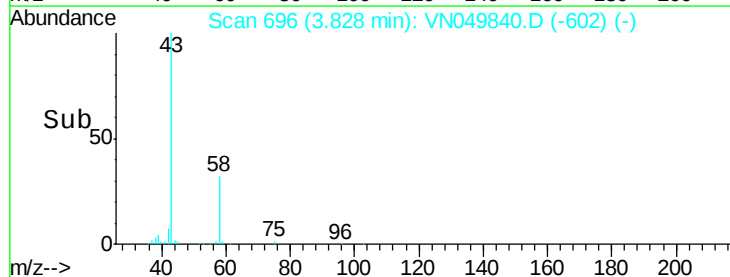
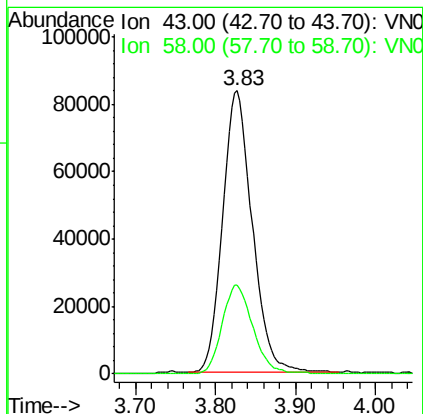
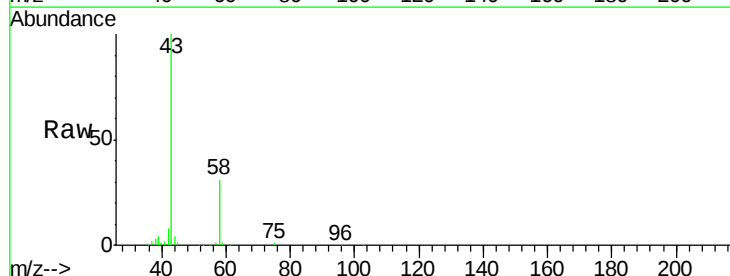
RT: 3.83 min Scan# 696

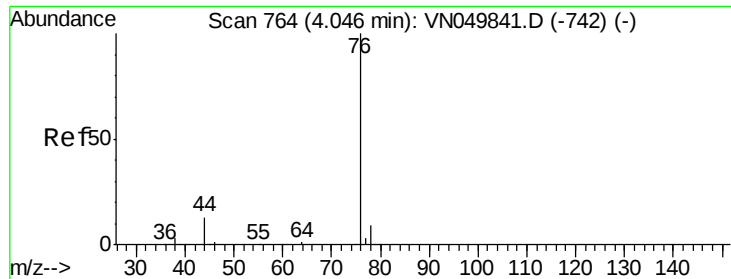
Delta R.T. 0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Tgt Ion:	43	Resp:	211390
Ion	Ratio	Lower	Upper
43	100		
58	31.7	25.9	38.9





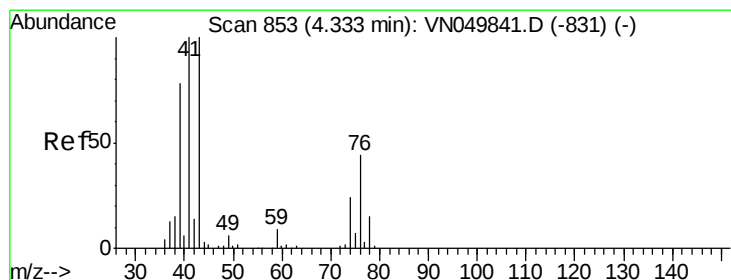
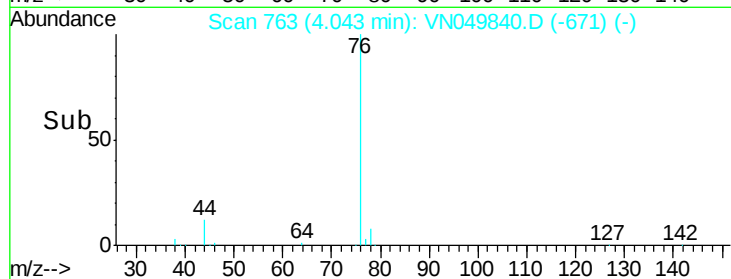
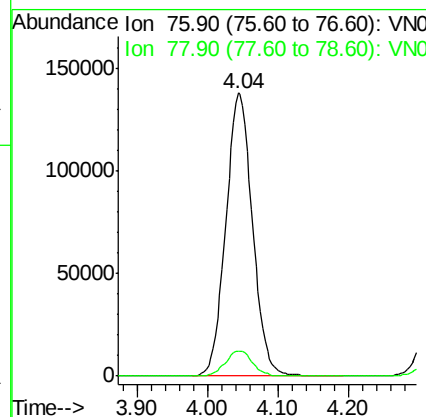
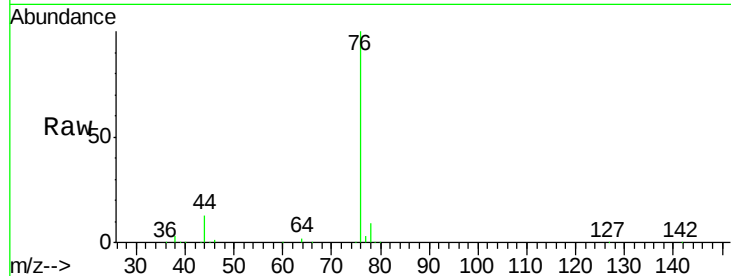
#17
Carbon Disulfide
Concen: 16.06 ug/l
RT: 4.04 min Scan# 763
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.1	10.7

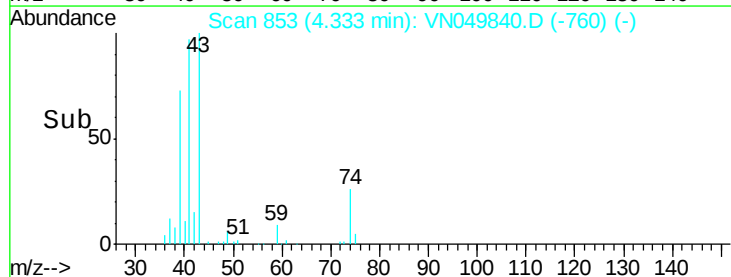
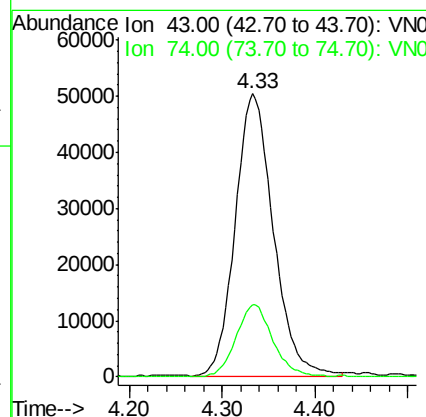
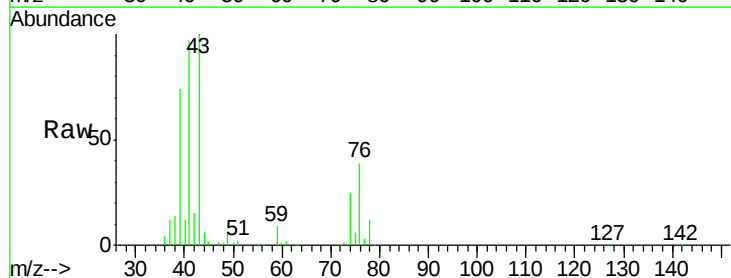
Manual Integrations
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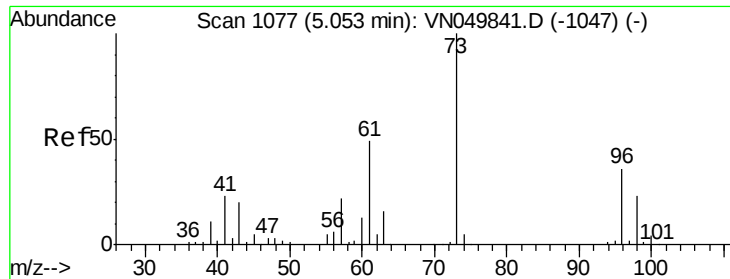
MMDadoda
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#18
Methyl Acetate
Concen: 15.66 ug/l
RT: 4.33 min Scan# 853
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.8	29.8





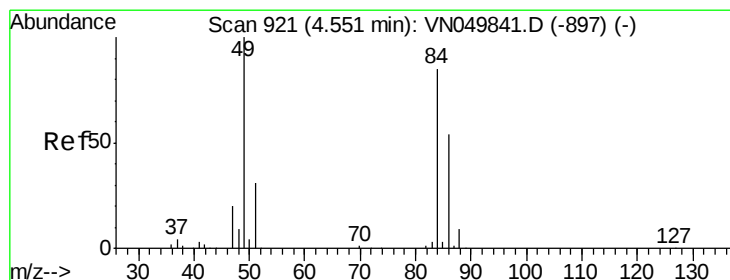
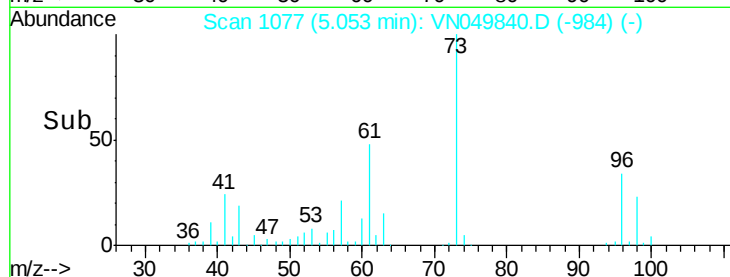
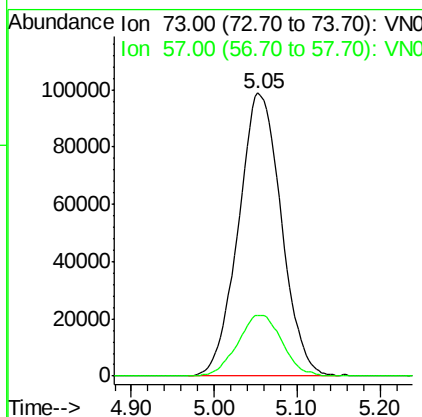
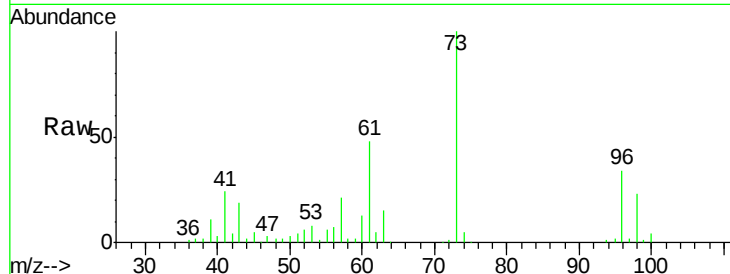
#19
Methvl tert-butvl Ether
Concen: 18.41 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 355256
Ion Ratio Lower Upper
73 100
57 21.4 18.1 27.1

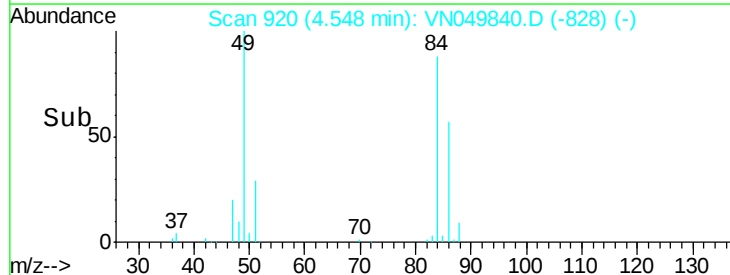
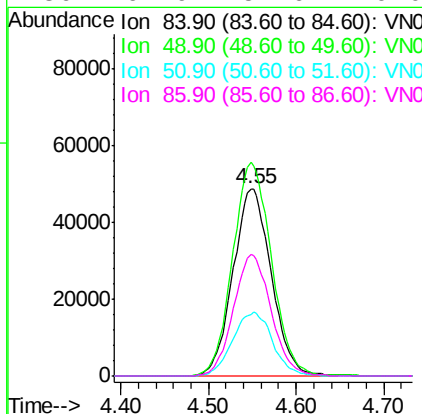
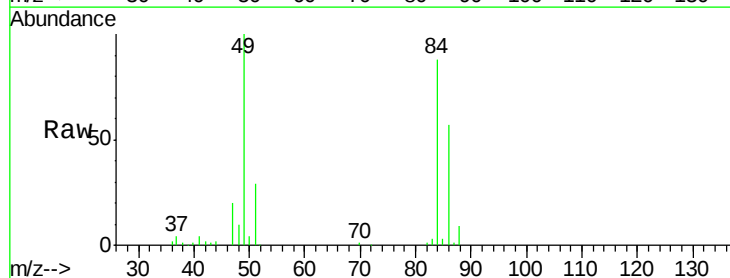
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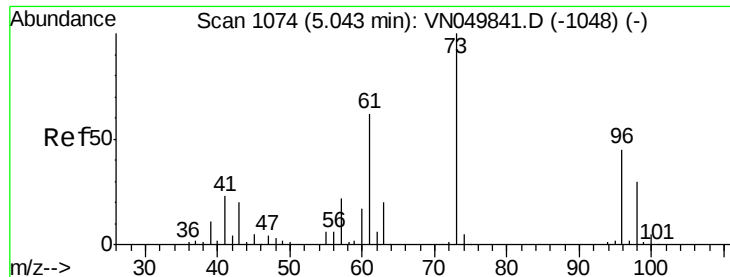
MMDadoda
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#20
Methylene Chloride
Concen: 18.34 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion: 84 Resp: 148093
Ion Ratio Lower Upper
84 100
49 114.0 95.4 143.2
51 32.8 28.4 42.6
86 64.9 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 18.11 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

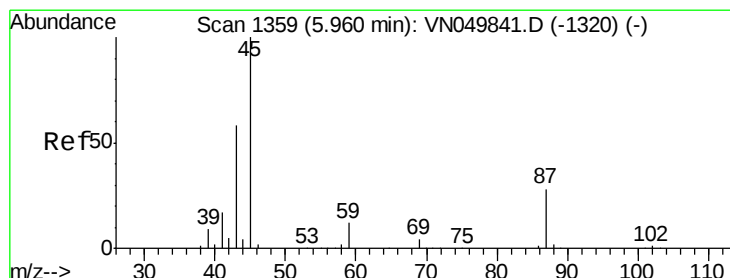
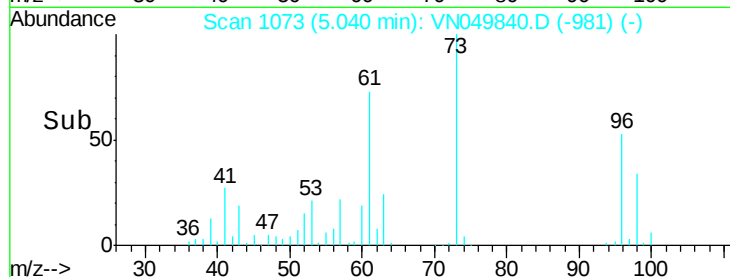
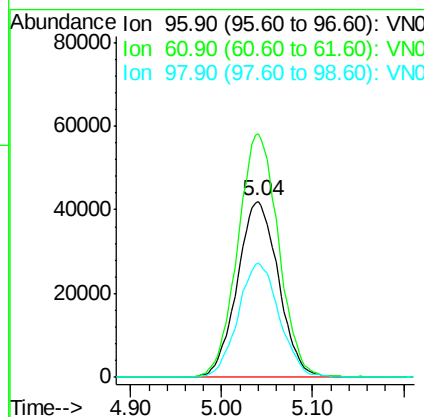
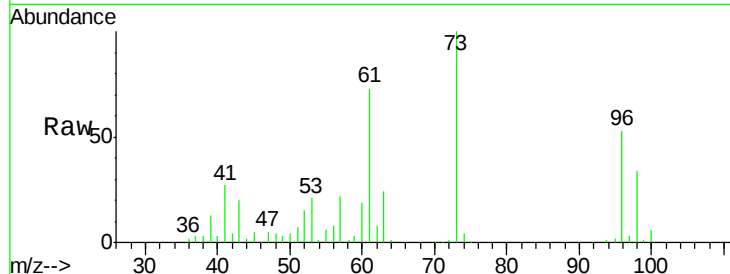
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	132307
Ion	Ratio	Lower	Upper
96	100		
61	138.2	109.0	163.6
98	64.7	51.1	76.7

Manual Integrations
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#22

Diisopropyl ether

Concen: 19.87 ug/l

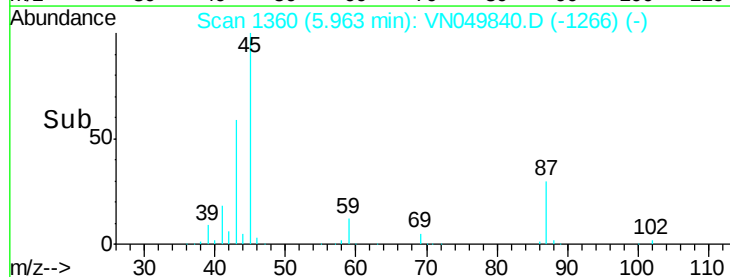
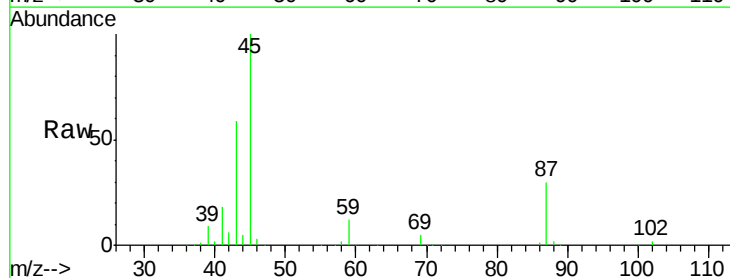
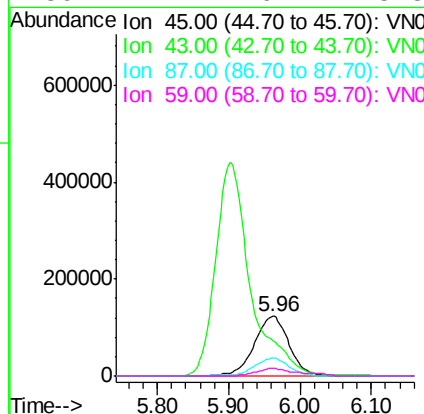
RT: 5.96 min Scan# 1360

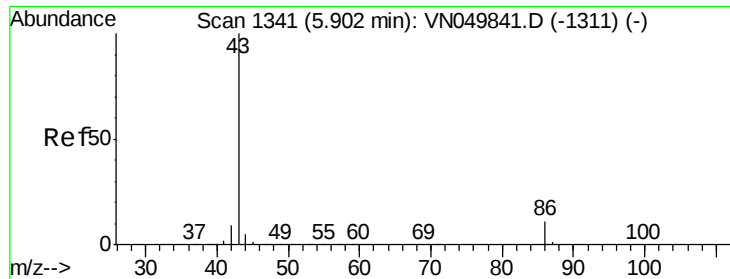
Delta R.T. 0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Tgt Ion:	45	Resp:	417037
Ion	Ratio	Lower	Upper
45	100		
43	57.4	48.1	72.1
87	29.4	22.6	34.0
59	12.1	9.2	13.8





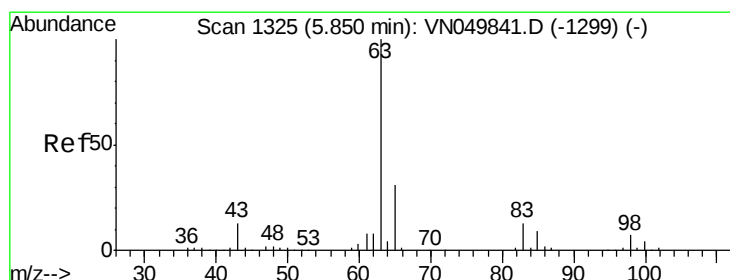
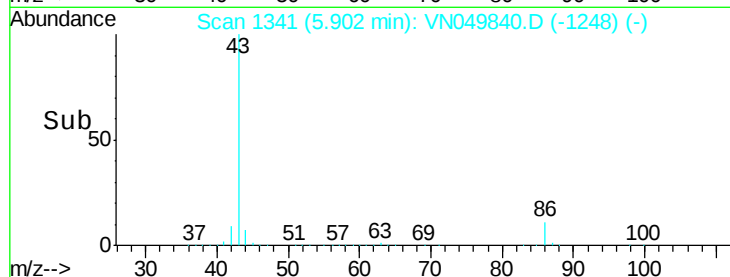
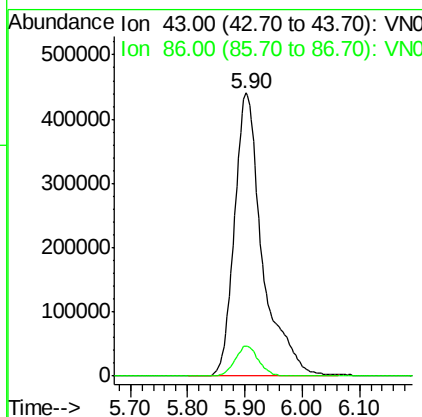
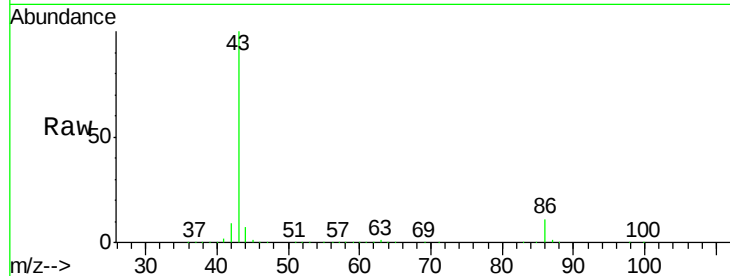
#23
 Vinyl Acetate
 Concen: 92.46 ug/l
 RT: 5.90 min Scan# 1341
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion: 43 Resp: 1494713
 Ion Ratio Lower Upper
 43 100
 86 10.7 8.4 12.6

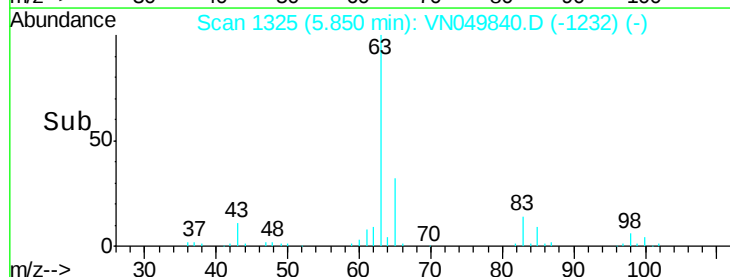
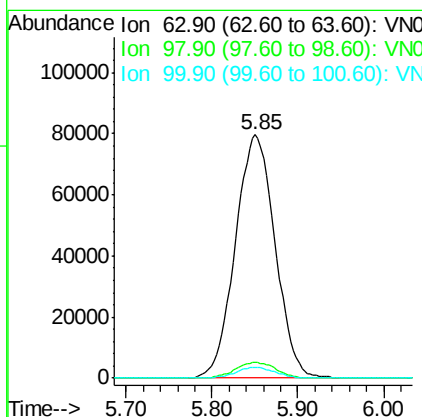
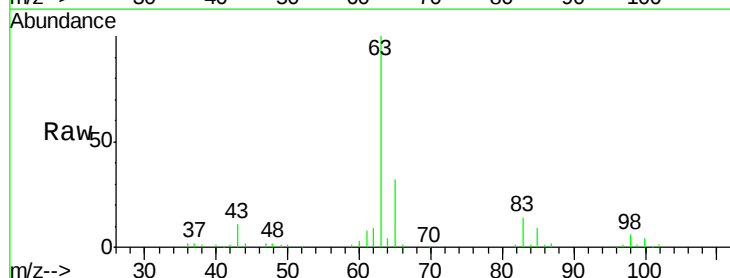
Manual Integrations
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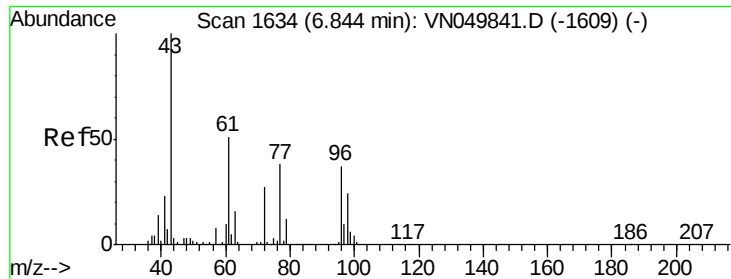
MMDadoda
 7/18/2018 11:59:09 AM



#24
 1,1-Dichloroethane
 Concen: 19.51 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Tgt Ion: 63 Resp: 255613
 Ion Ratio Lower Upper
 63 100
 98 6.5 3.4 10.2
 100 4.4 2.2 6.6





#25

2-Butanone

Concen: 84.67 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 325169

Ion Ratio Lower Upper

43 100

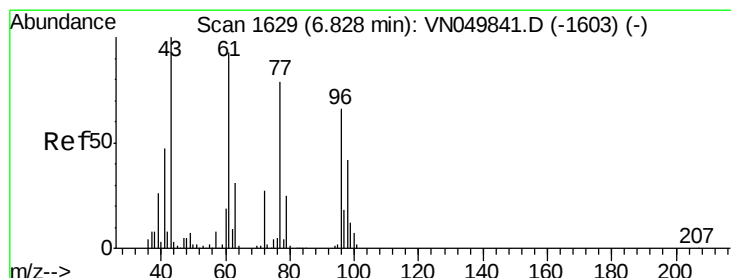
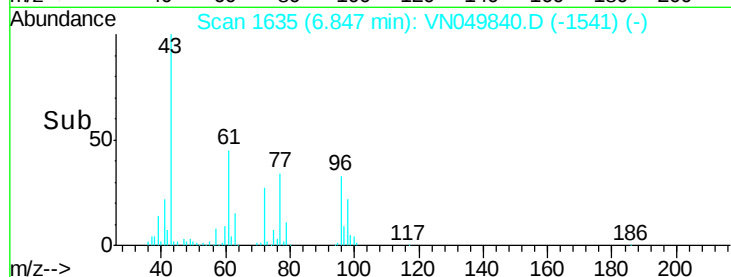
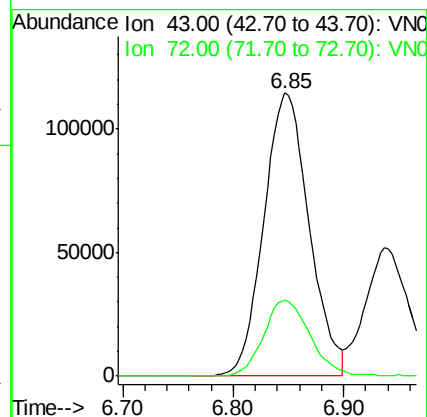
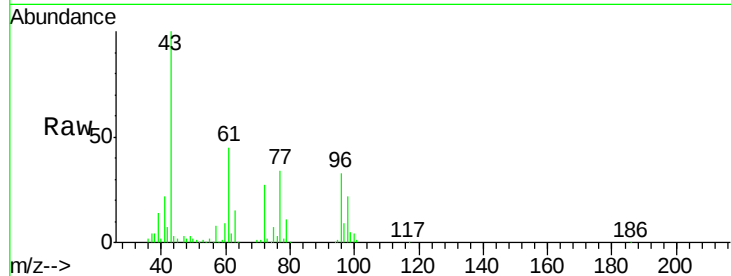
72 26.8 22.1 33.1

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#26

2,2-Dichloropropane

Concen: 18.59 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN049840.D

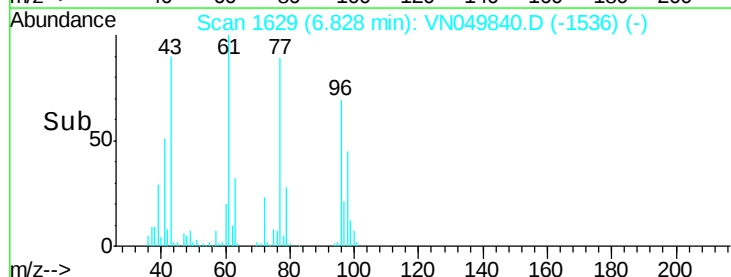
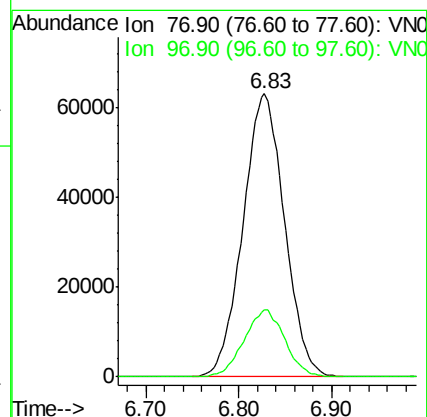
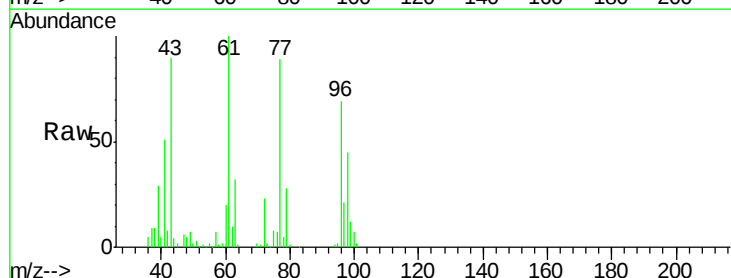
Acq: 17 Jul 2018 11:29

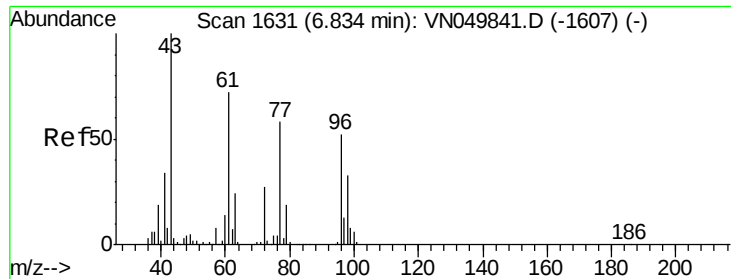
Tgt Ion: 77 Resp: 196421

Ion Ratio Lower Upper

77 100

97 23.2 11.9 35.5





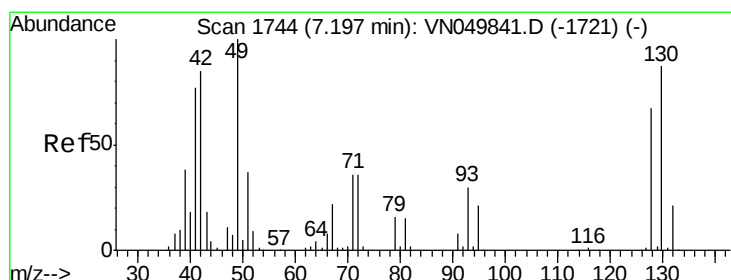
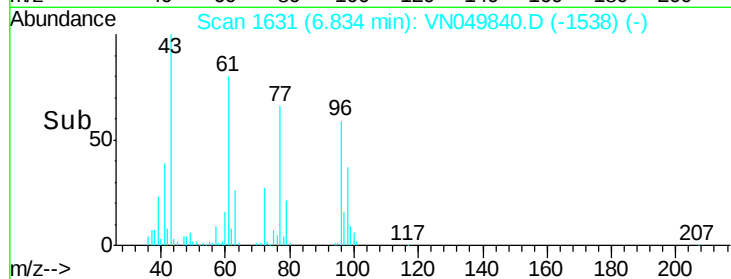
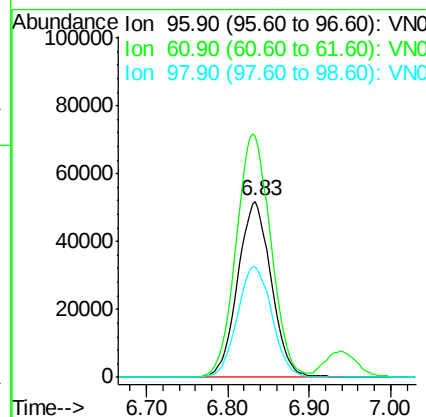
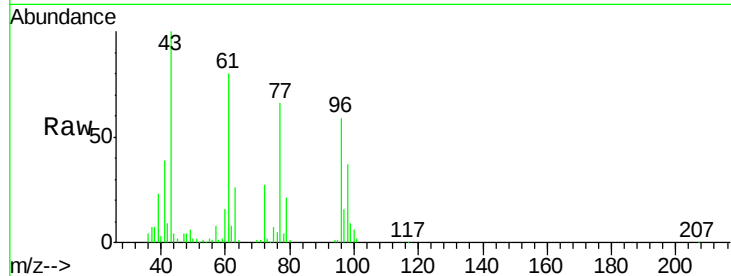
#27
 cis-1,2-Dichloroethene
 Concen: 18.72 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	142.9	0.0	289.0	
98	64.7	0.0	130.2	

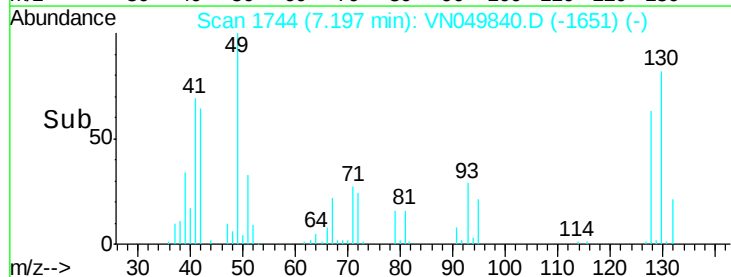
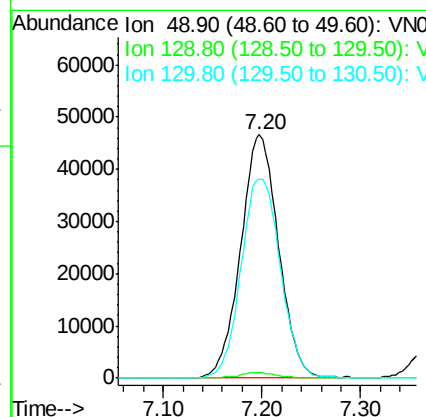
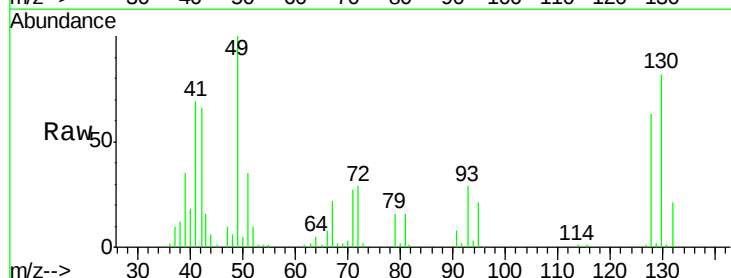
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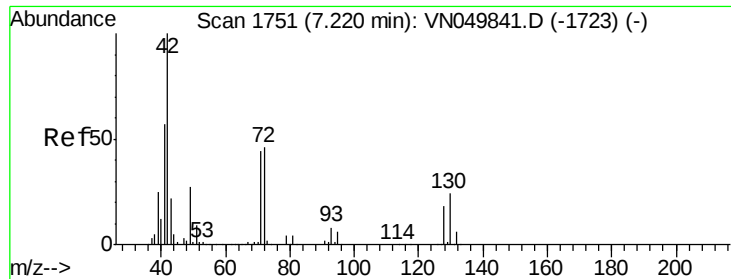
MMDadoda
 7/18/2018 11:59:09 AM



#28
 Bromochloromethane
 Concen: 20.97 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.2	0.0	4.2	
130	85.2	65.5	98.3	





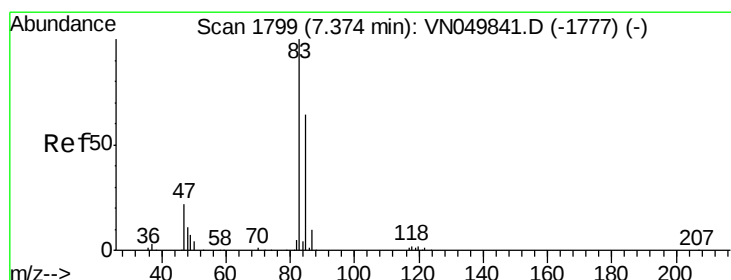
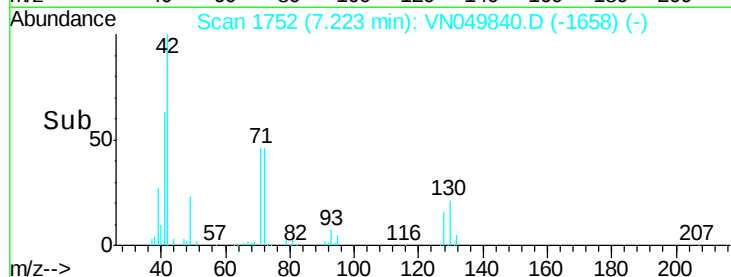
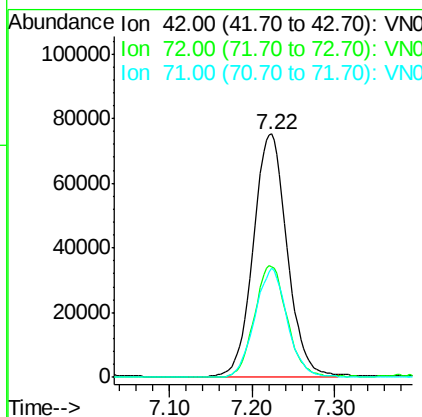
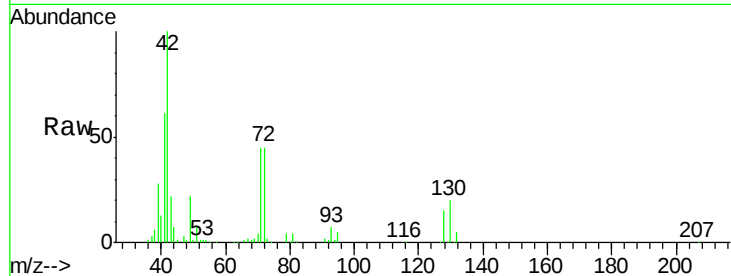
#29
Tetrahydrofuran
Concen: 86.42 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.2	35.6	53.4
71	42.6	34.0	51.0

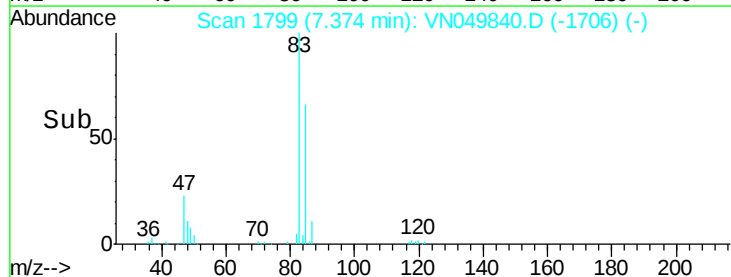
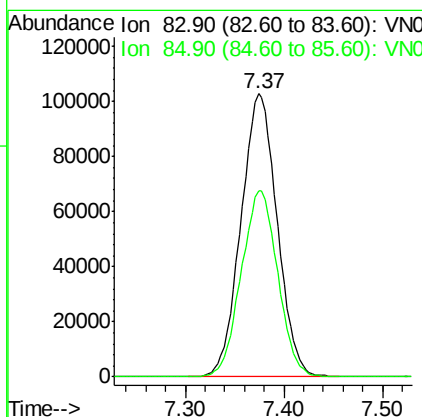
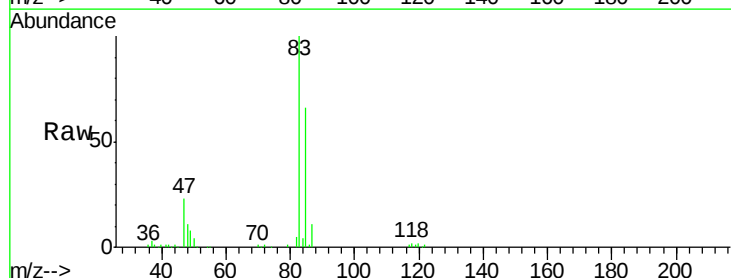
Manual Integrations
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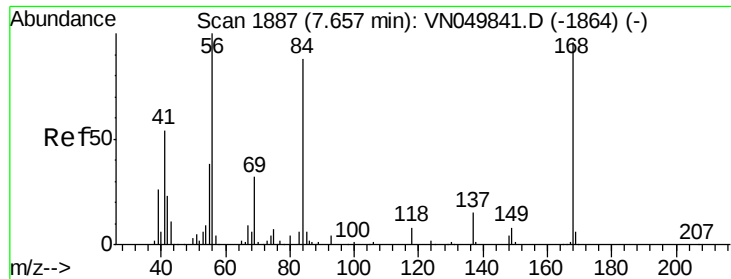
MMDadoda
7/18/2018 11:59:09 AM



#30
Chloroform
Concen: 19.36 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.4	77.2





#31

Cyclohexane

Concen: 16.15 ug/l

RT: 7.65 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

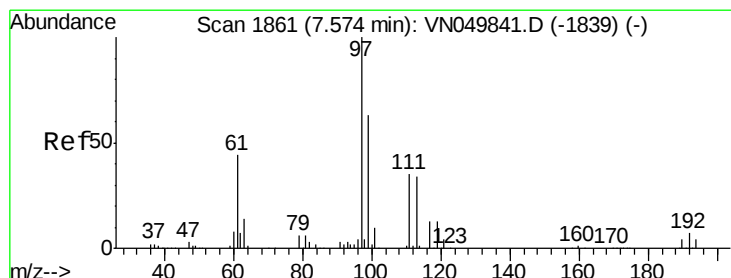
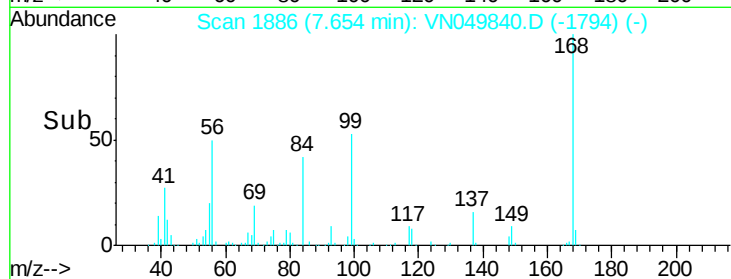
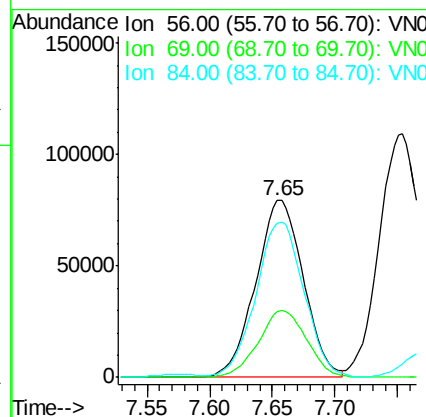
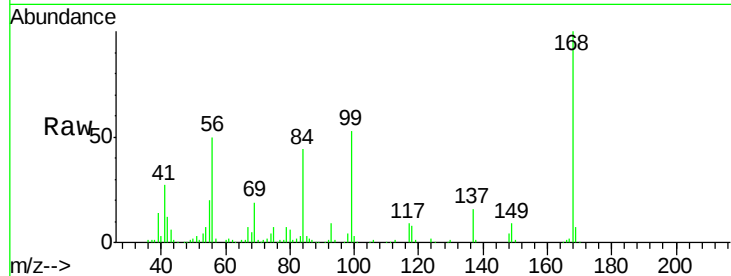
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	209847
Ion Ratio	Lower	Upper	
56	100		
69	37.0	26.6	40.0
84	85.5	69.0	103.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.62 ug/l

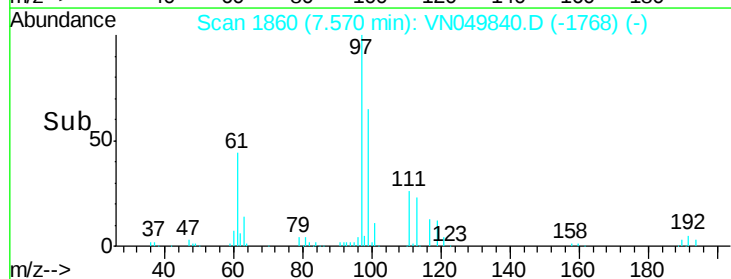
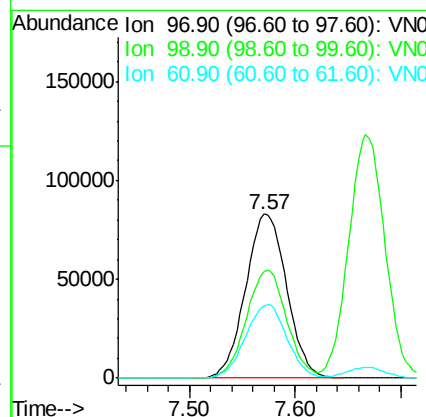
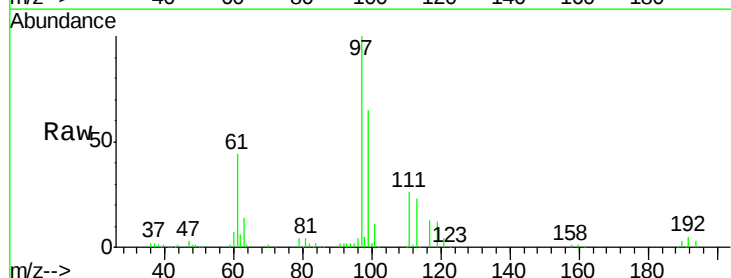
RT: 7.57 min Scan# 1860

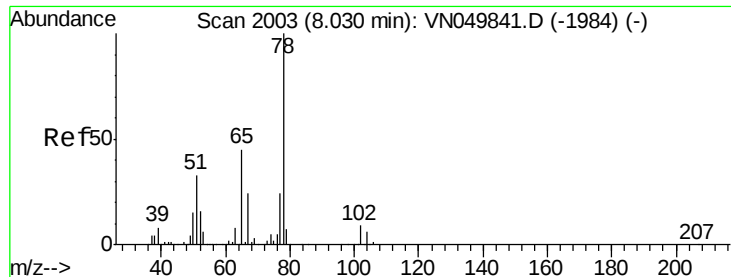
Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Tgt Ion:	97	Resp:	224929
Ion Ratio	Lower	Upper	
97	100		
99	64.5	51.0	76.4
61	45.0	35.5	53.3





#33

1,2-Dichloroethane-d4

Concen: 19.48 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 65 Resp: 160385

Ion Ratio Lower Upper

65 100

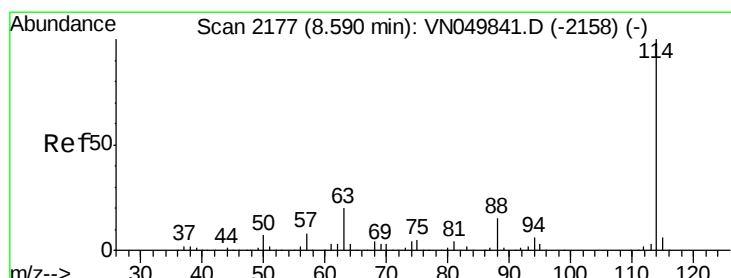
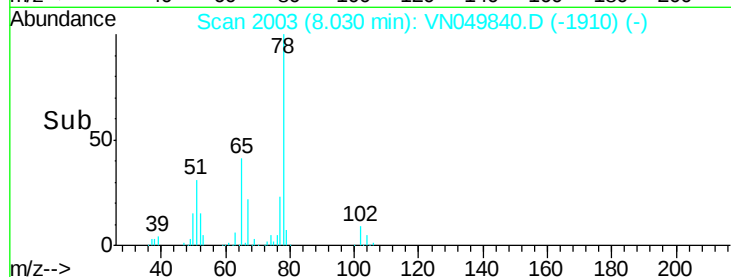
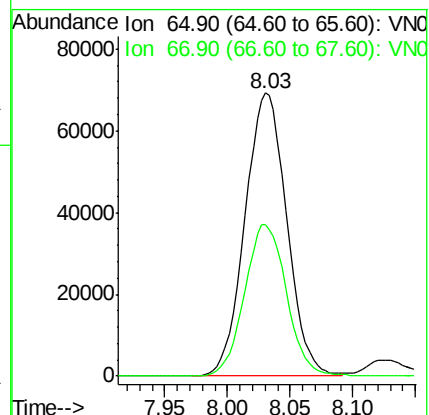
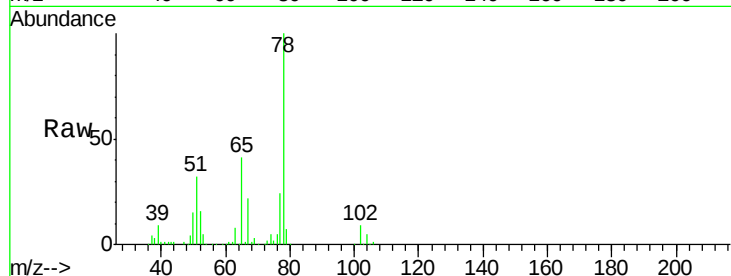
67 53.7 0.0 107.2

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

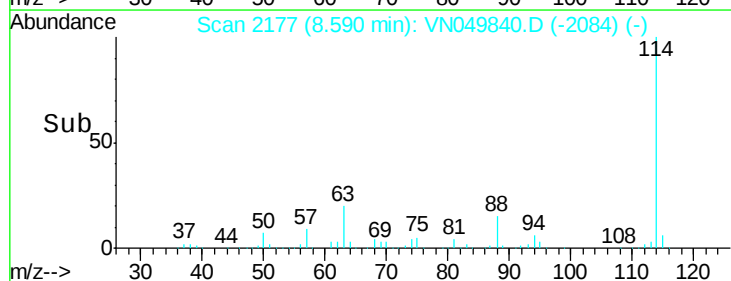
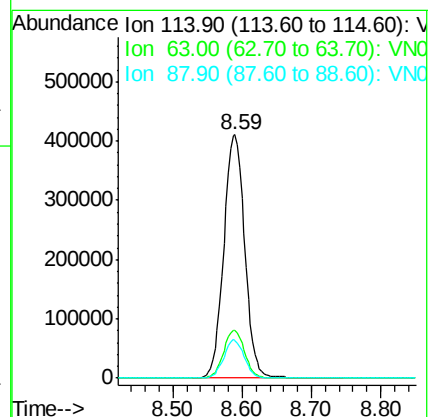
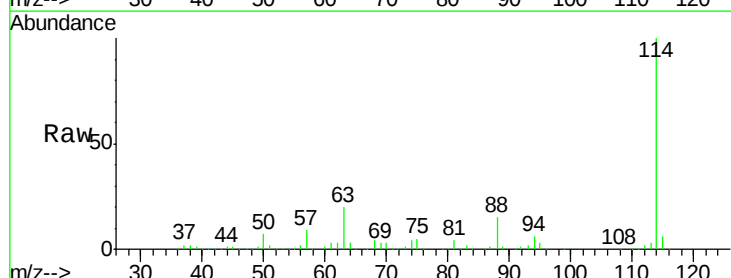
Tgt Ion: 114 Resp: 864093

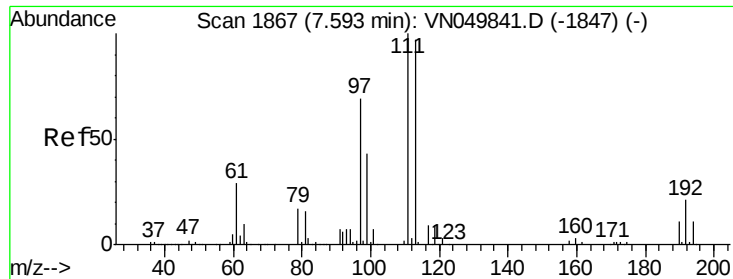
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.8

88 15.4 0.0 30.6





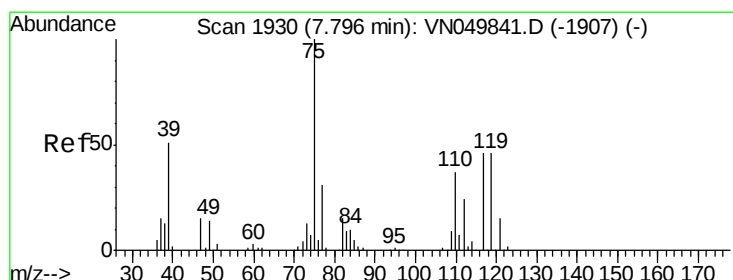
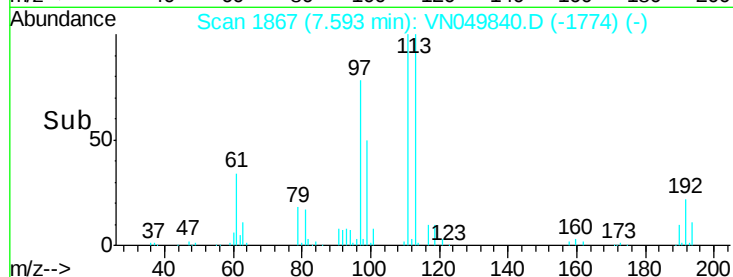
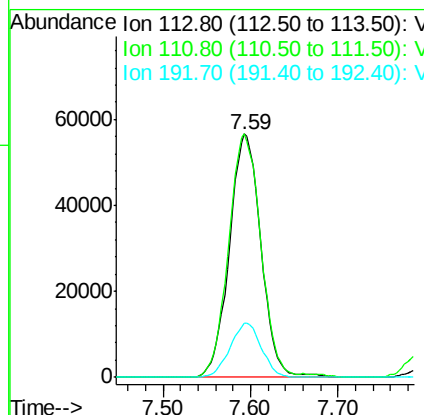
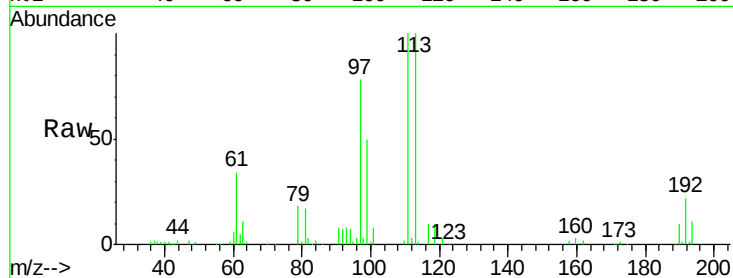
#35
Dibromofluoromethane
Concen: 19.69 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	141686		
111	101.5	81.8	122.8	
192	22.1	17.8	26.6	

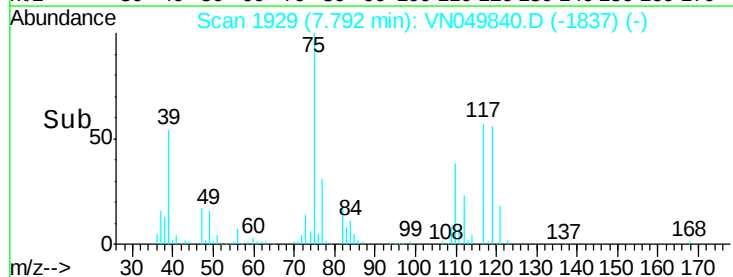
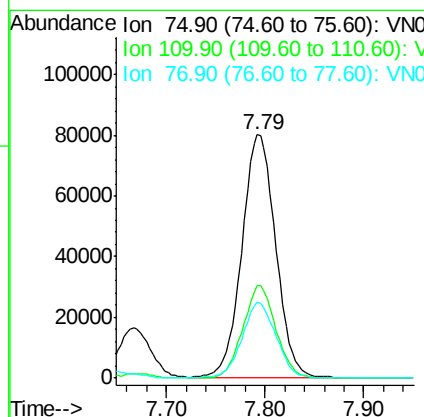
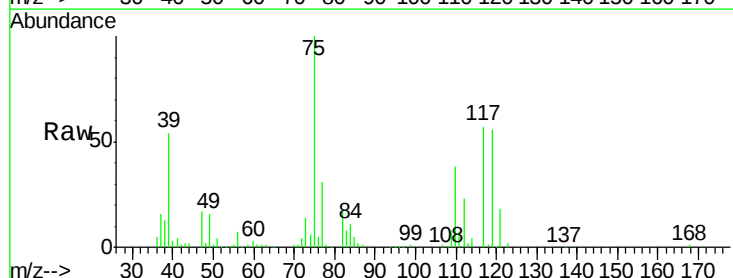
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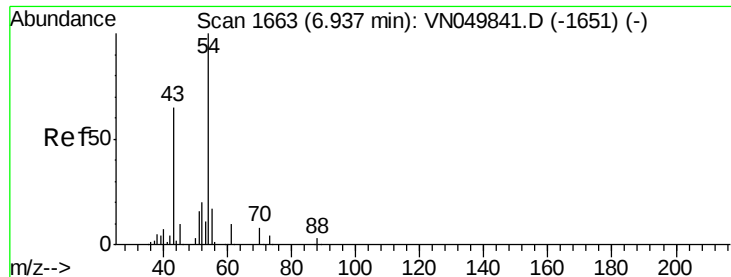
MMDadoda
7/18/2018 11:59:09 AM



#36
1,1-Dichloropropene
Concen: 18.94 ug/l
RT: 7.79 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	189121		
110	37.4	18.1	54.4	
77	31.3	24.9	37.3	





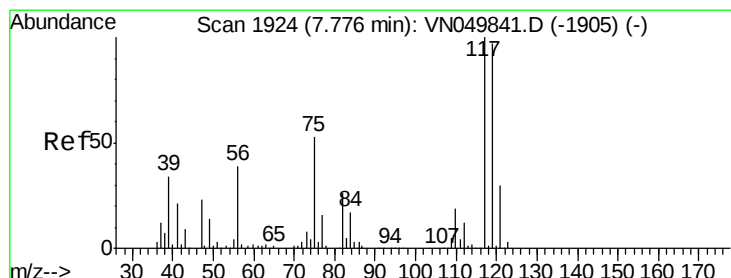
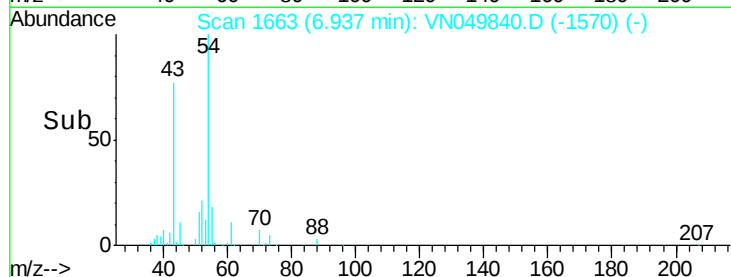
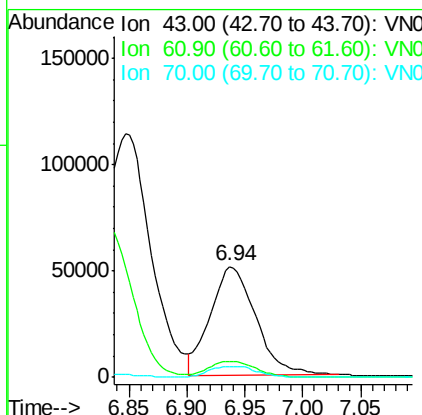
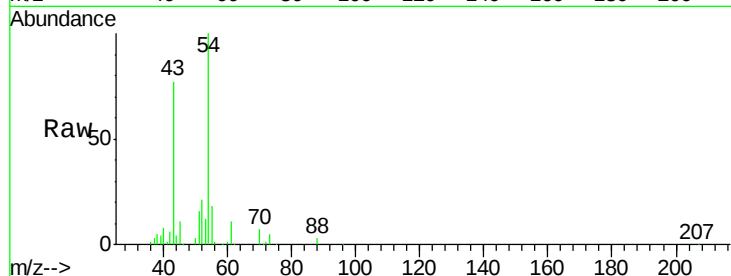
#37
Ethyl Acetate
Concen: 17.88 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.6	11.7	17.5
70	10.7	8.4	12.6

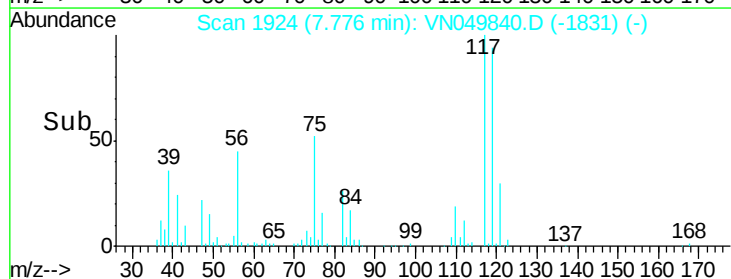
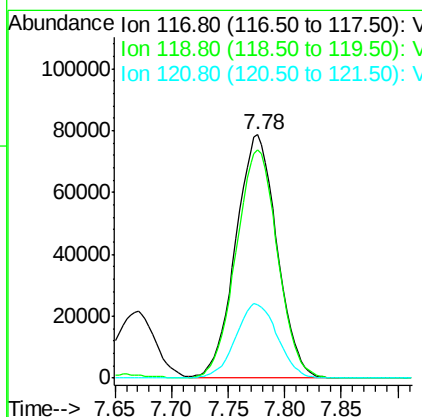
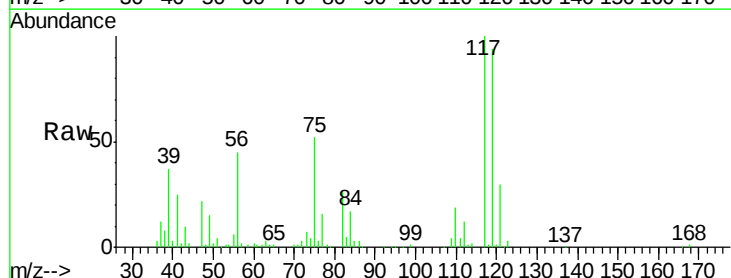
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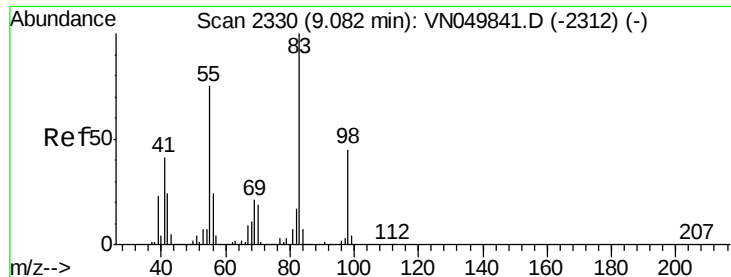
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#38
Carbon Tetrachloride
Concen: 19.33 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.2	77.2	115.8
121	30.3	25.0	37.6





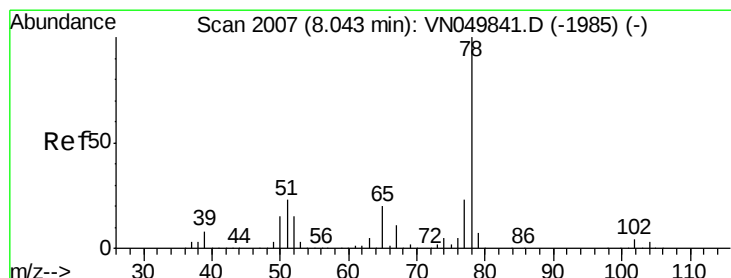
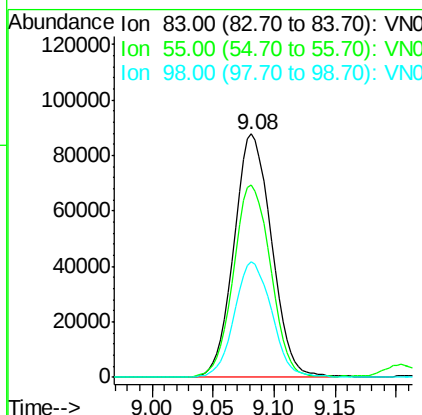
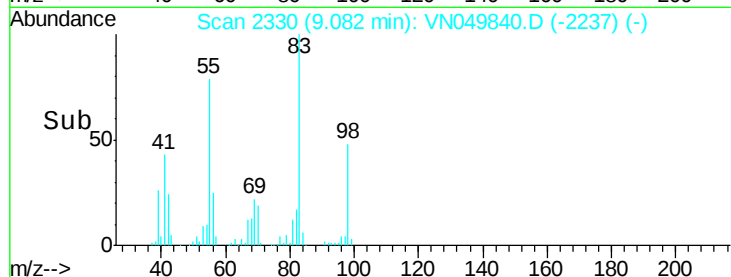
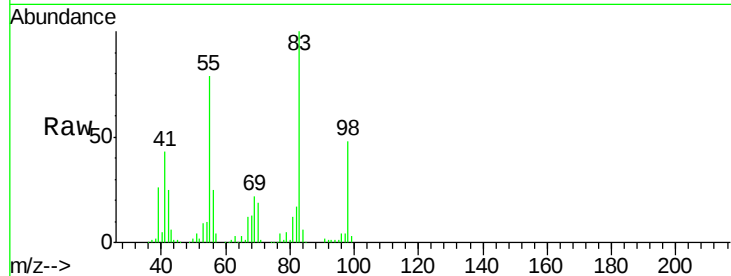
#39
Methvlcvclohexane
Concen: 17.86 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.0	59.7	89.5
98	47.5	36.5	54.7

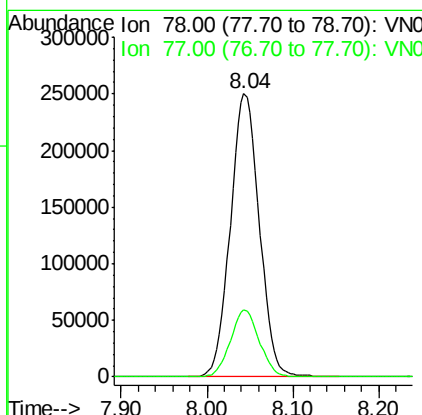
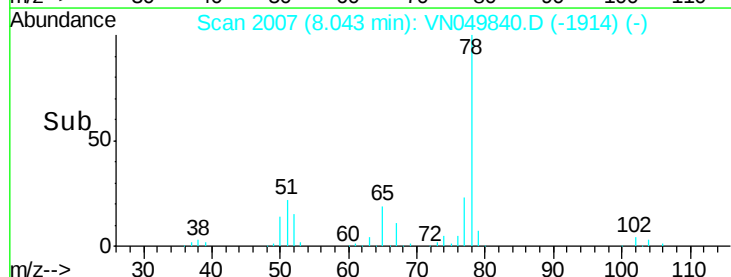
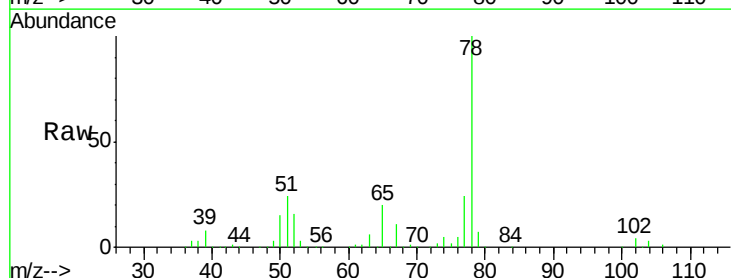
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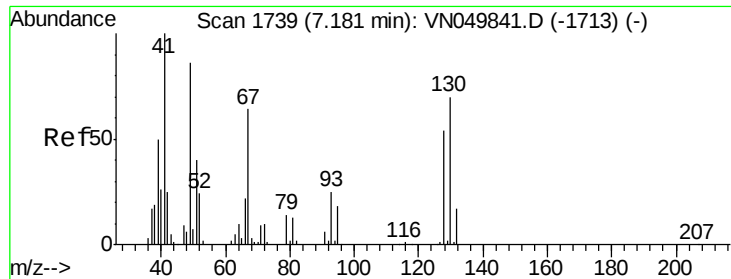
MMDadoda
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#40
Benzene
Concen: 19.37 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.4





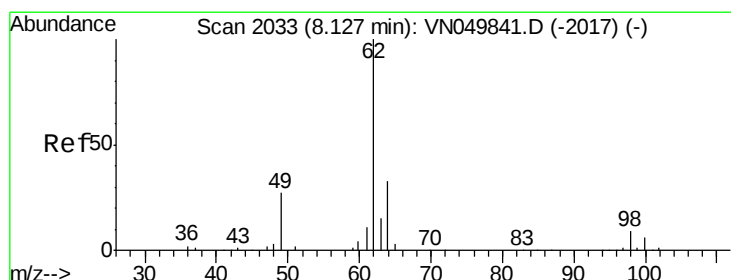
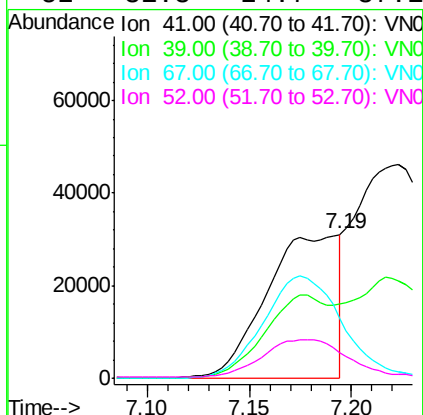
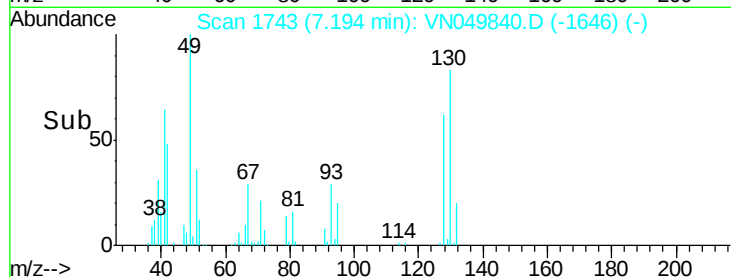
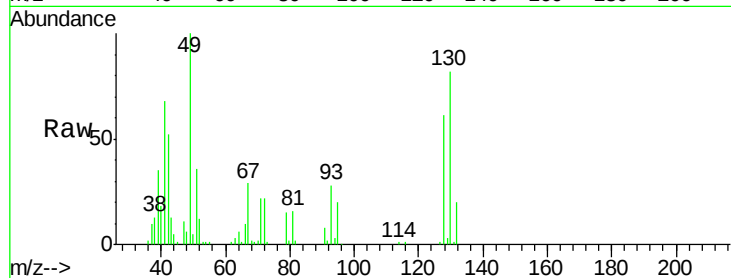
#41
Methacrylonitrile
Concen: 20.42 ug/l m
RT: 7.19 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	47.5	45.4	68.2	
67	78.1	65.4	98.0	
52	31.3	24.7	37.1	

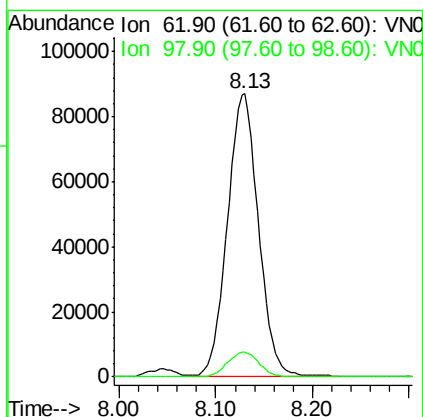
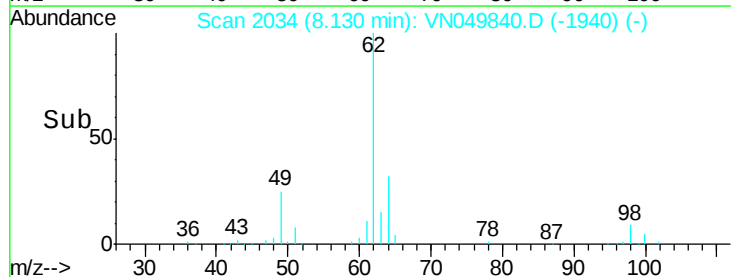
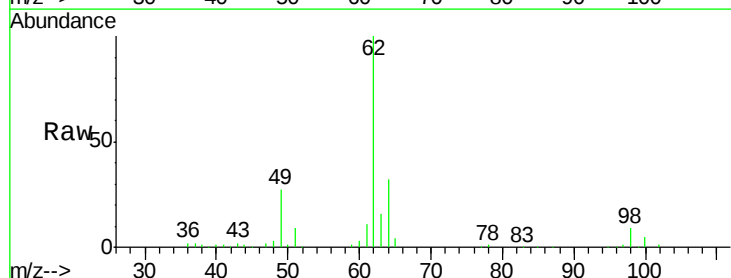
Manual Integrations
APPROVED

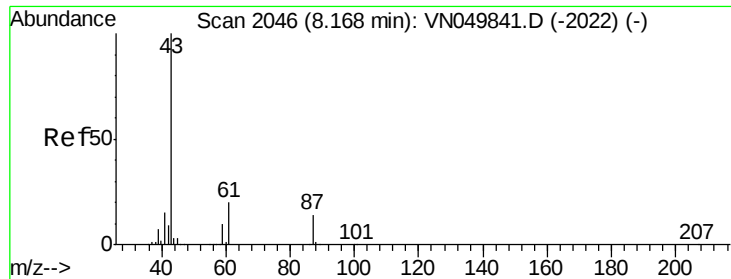
MMDadoda
7/18/2018 11:59:09 AM



#42
1,2-Dichloroethane
Concen: 19.61 ug/l
RT: 8.13 min Scan# 2034
Delta R.T. 0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.0	0.0	19.0	





#43

Isopropyl Acetate

Concen: 13.11 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

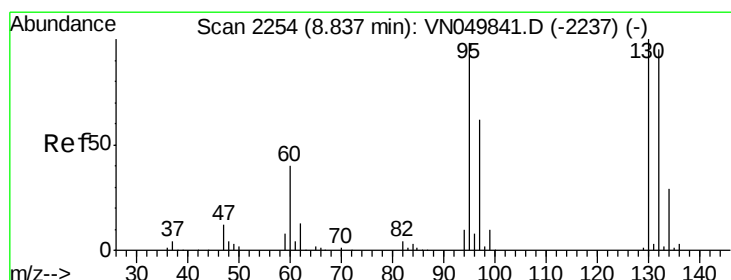
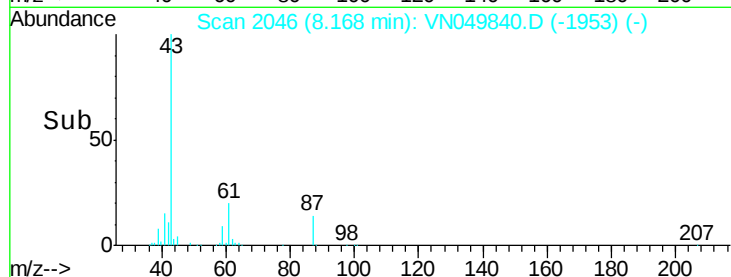
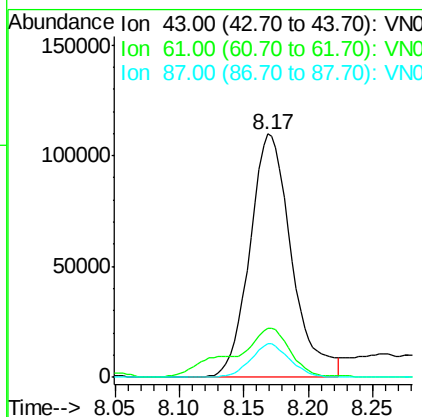
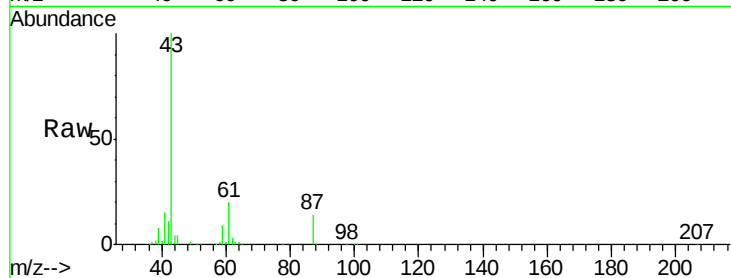
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	248310
Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.9	22.3
87	12.9	10.0	15.0

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:09 AM



#44

Trichloroethene

Concen: 18.82 ug/l

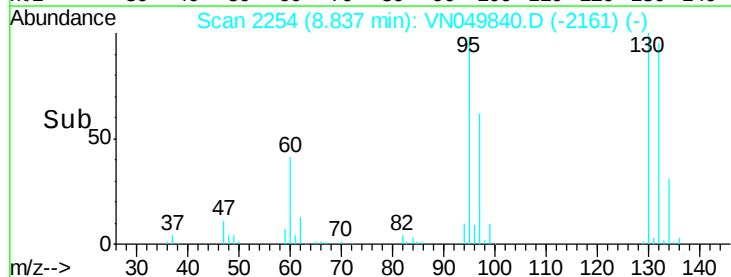
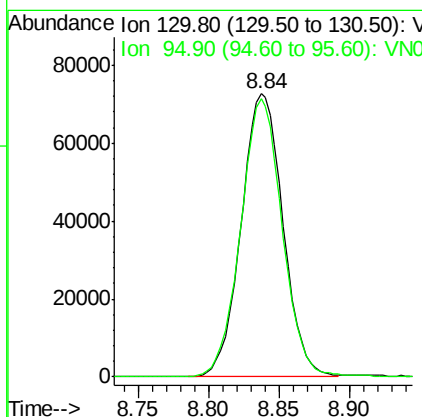
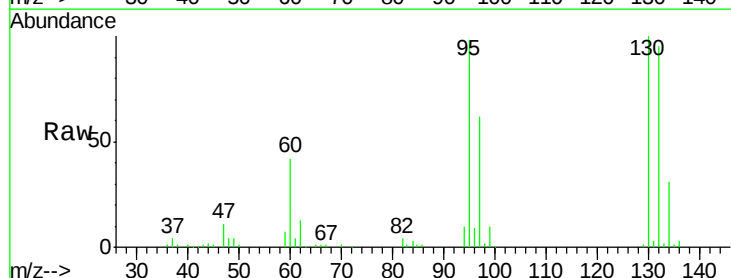
RT: 8.84 min Scan# 2254

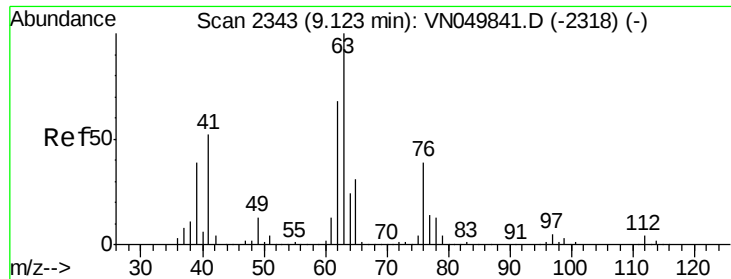
Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Tgt Ion:	130	Resp:	150261
Ion	Ratio	Lower	Upper
130	100		
95	98.3	0.0	192.8





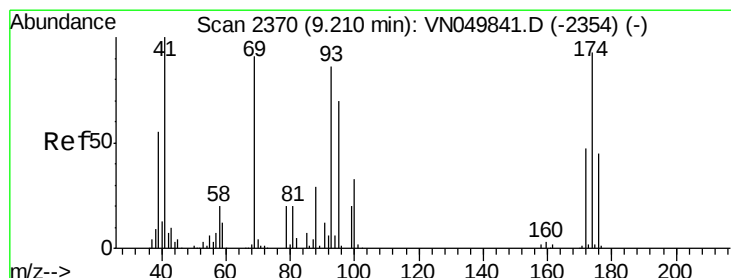
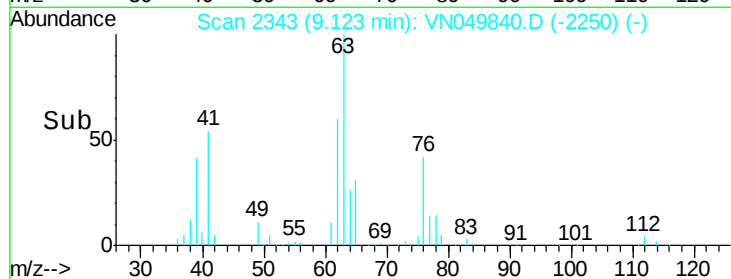
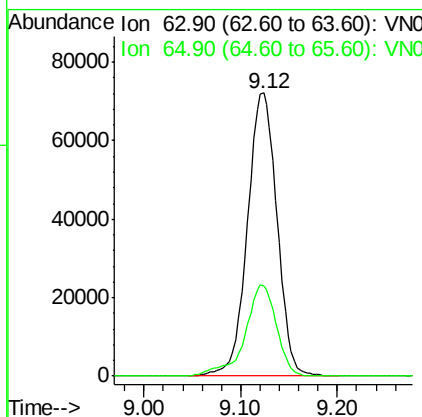
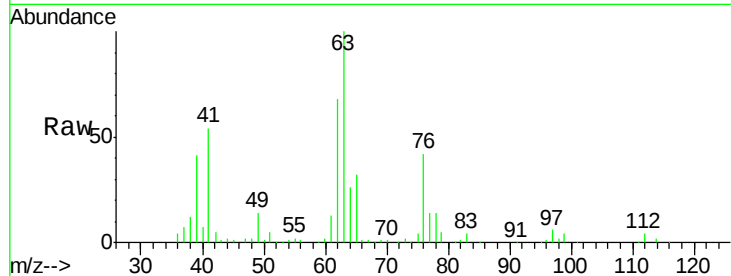
#45
 1,2-Dichloropropane
 Concen: 19.72 ug/l
 RT: 9.12 min Scan# 2343
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion: 63 Resp: 153623
 Ion Ratio Lower Upper
 63 100
 65 31.9 24.7 37.1

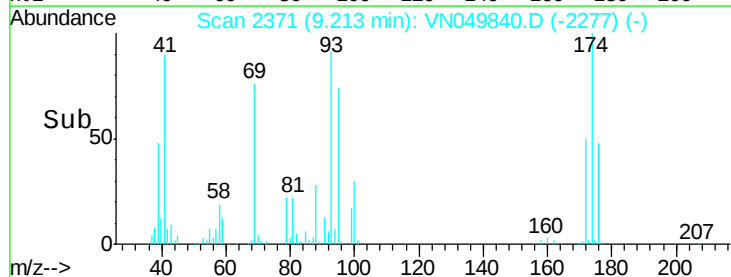
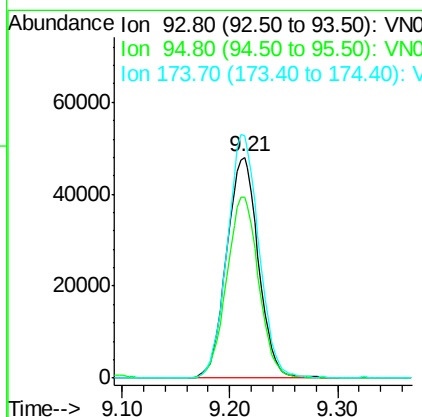
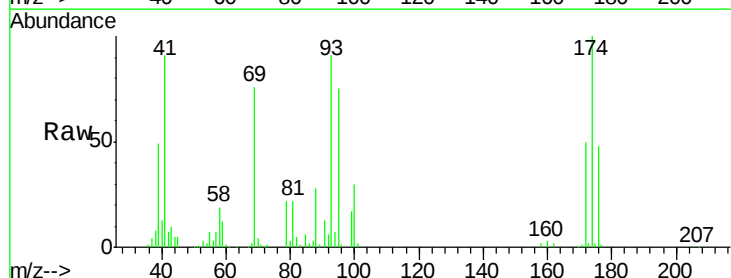
Manual Integrations
 APPROVED

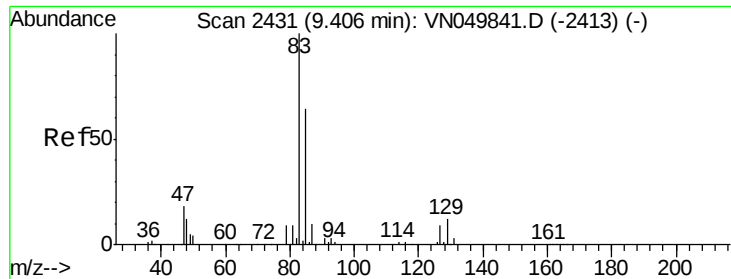
MMDadoda
 7/18/2018 11:59:09 AM



#46
 Dibromomethane
 Concen: 19.04 ug/l
 RT: 9.21 min Scan# 2371
 Delta R.T. 0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Tgt Ion: 93 Resp: 98500
 Ion Ratio Lower Upper
 93 100
 95 82.5 67.9 101.9
 174 110.1 89.4 134.0





#47

Bromodichloromethane

Concen: 19.78 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

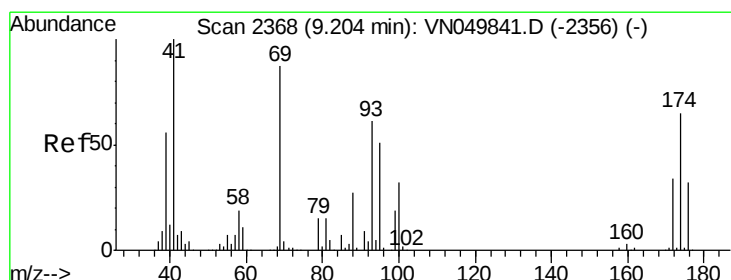
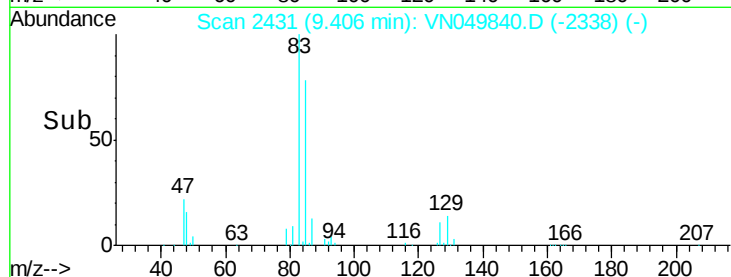
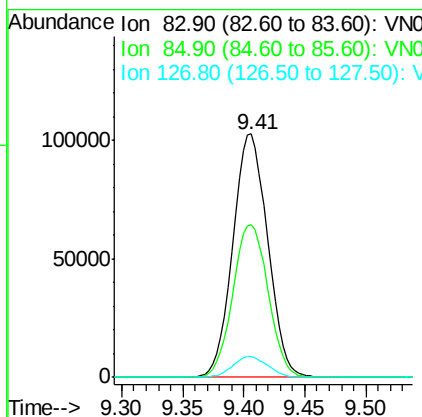
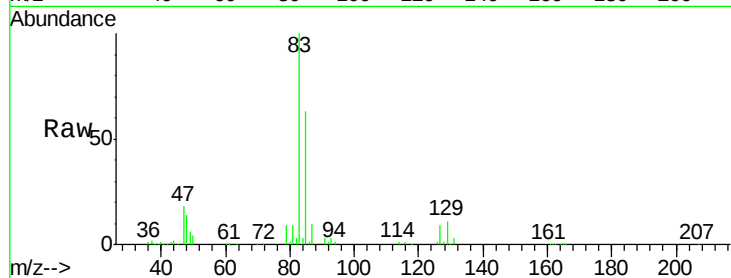
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	203589
Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.5	75.7
127	8.6	6.8	10.2

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:09 AM



#48

Methyl methacrylate

Concen: 17.78 ug/l

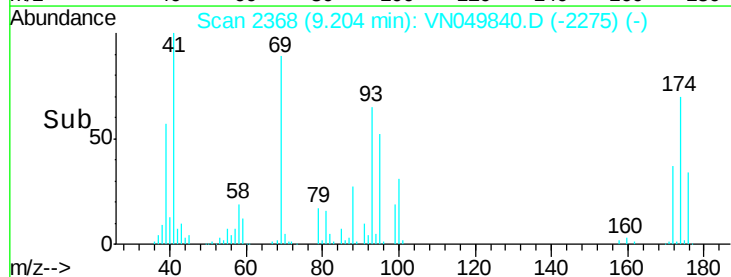
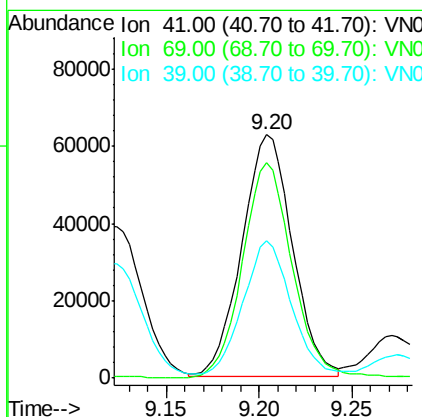
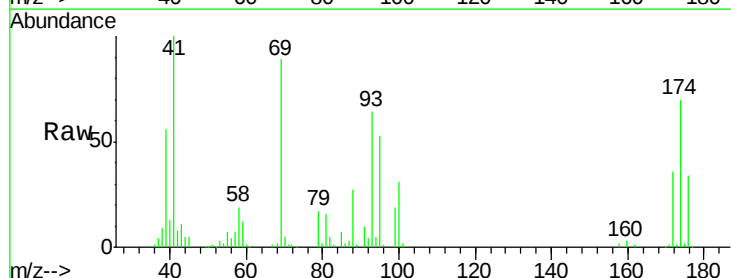
RT: 9.20 min Scan# 2368

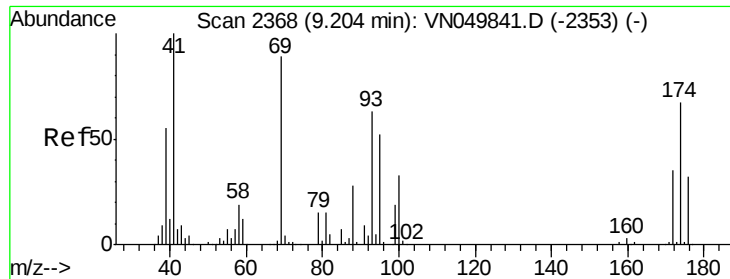
Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Tgt Ion:	41	Resp:	119206
Ion	Ratio	Lower	Upper
41	100		
69	88.1	71.5	107.3
39	54.1	44.7	67.1





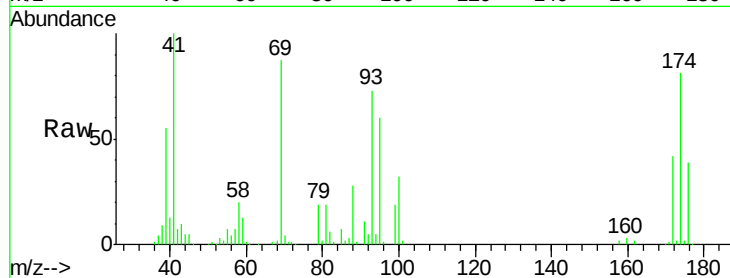
#49
1,4-Dioxane
Concen: 324.24 ug/l
RT: 9.21 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	88	Resp	35449
Ion Ratio	Lower	Upper	
88	100		
43	34.9	25.1	37.7
58	69.8	52.5	78.7

Manual Integrations
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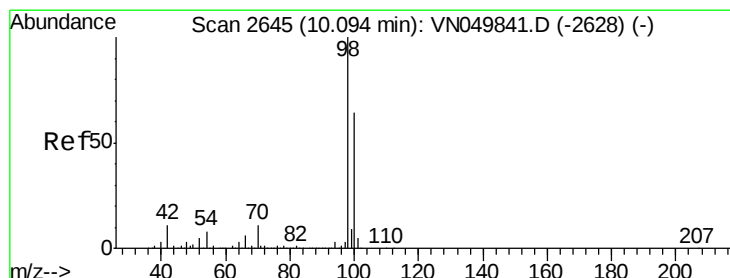
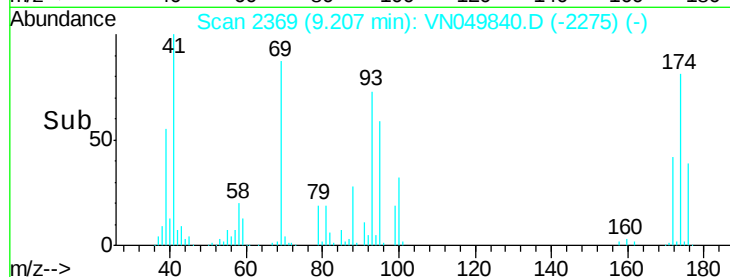
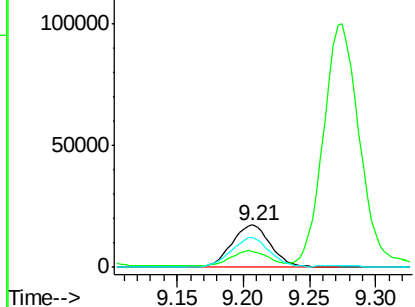
MMDadoda
7/18/2018 11:59:09 AM



Abundance Ion 88.00 (87.70 to 88.70): VN049840.D (-2275) (-)

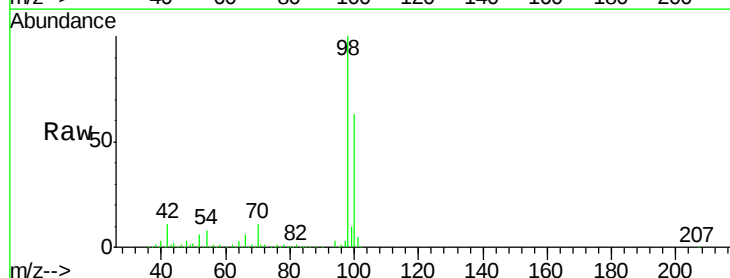
Ion 43.00 (42.70 to 43.70): VN049840.D (-2275) (-)

Ion 58.00 (57.70 to 58.70): VN049840.D (-2275) (-)



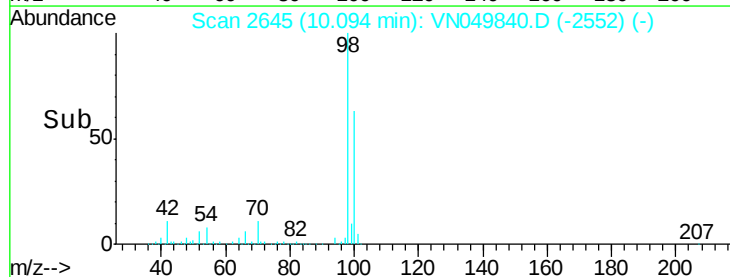
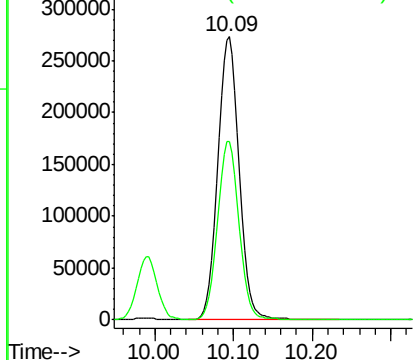
#50
Toluene-d8
Concen: 19.10 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

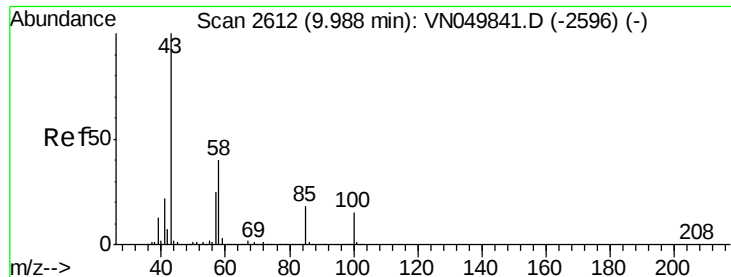
Tgt Ion	98	Resp	509934
Ion Ratio	Lower	Upper	
98	100		
100	63.7	51.7	77.5



Abundance Ion 98.00 (97.70 to 98.70): VN049840.D (-2552) (-)

Ion 100.00 (99.70 to 100.70): VN049840.D (-2552) (-)





#51

4-Methyl-2-Pentanone

Concen: 89.93 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 727451

Ion Ratio Lower Upper

43 100

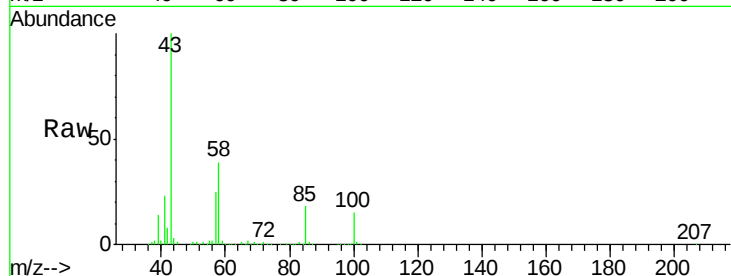
58 39.1 31.8 47.8

Manual Integrations

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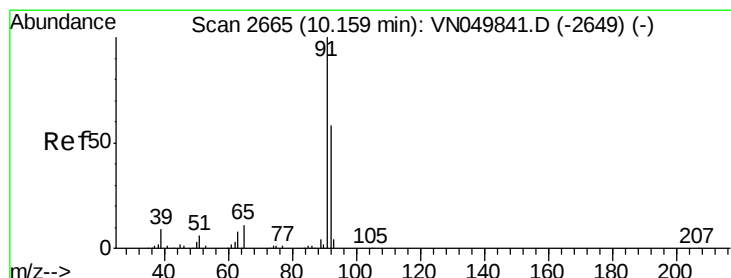
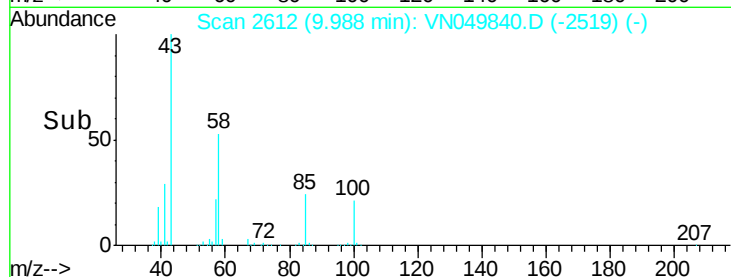
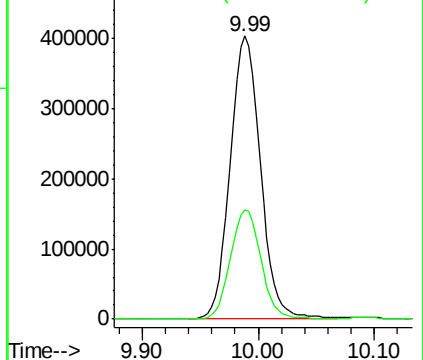
MMDadoda

7/18/2018 11:59:09 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.60 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. -0.00 min

Lab File: VN049840.D

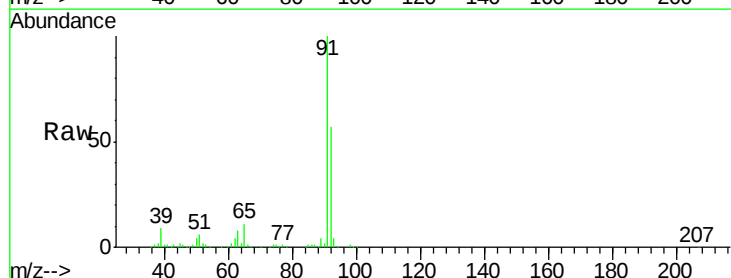
Acq: 17 Jul 2018 11:29

Tgt Ion: 92 Resp: 355850

Ion Ratio Lower Upper

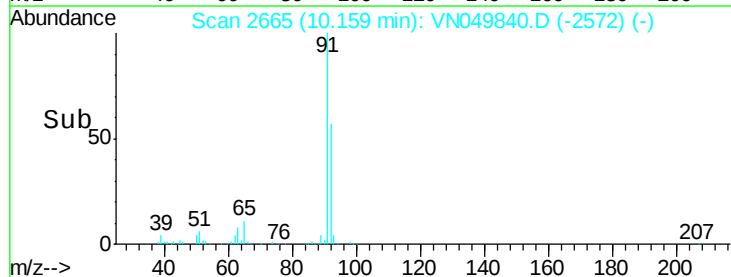
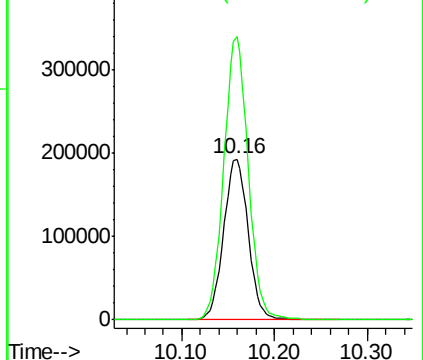
92 100

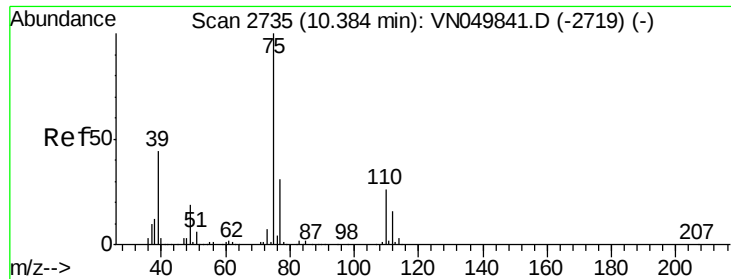
91 175.0 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





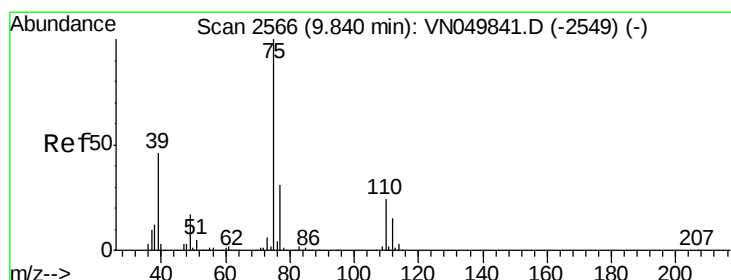
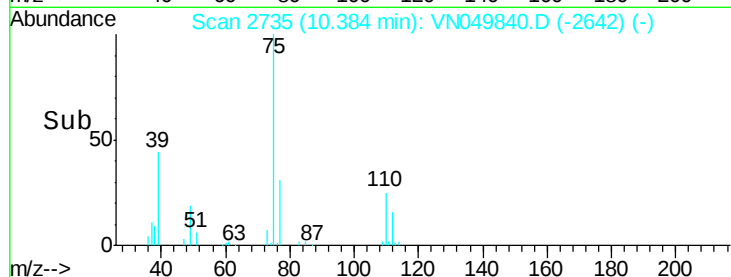
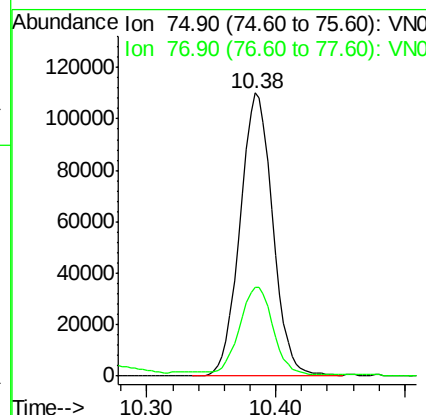
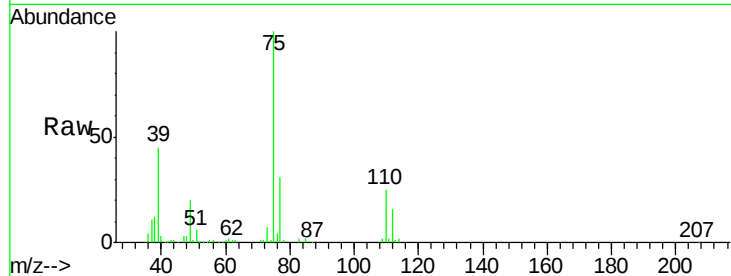
#53
t-1,3-Dichloropropene
Concen: 18.25 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.2	37.8

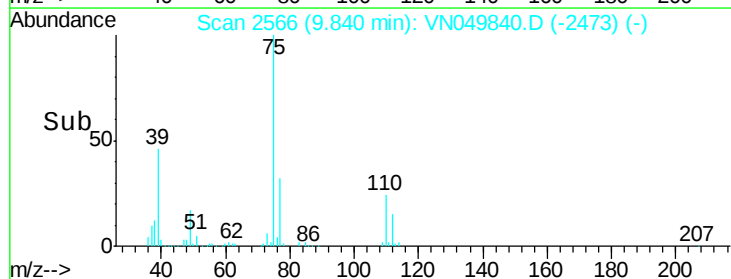
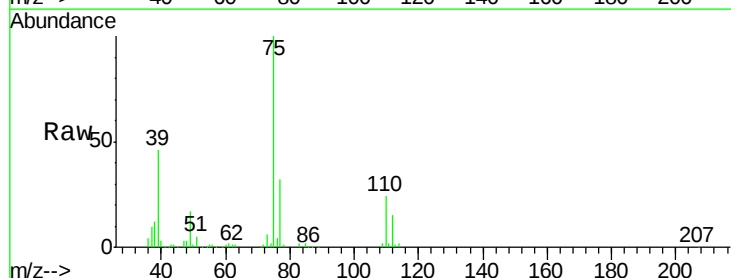
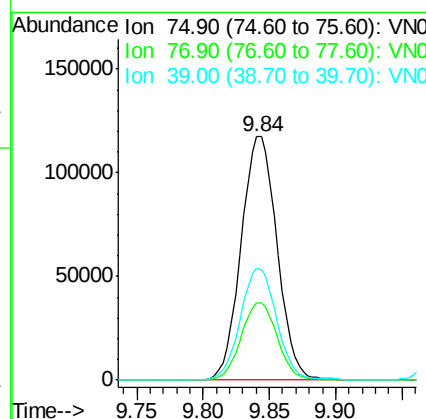
Manual Integrations
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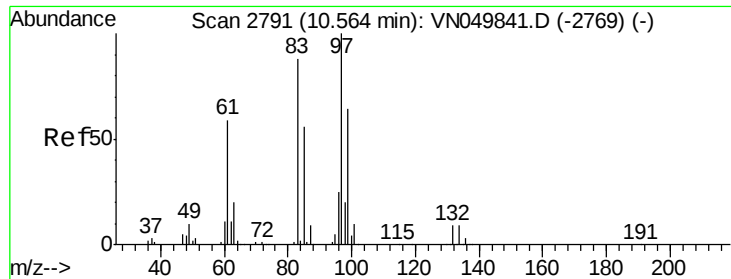
MMDadoda
7/18/2018 11:59:09 AM



#54
cis-1,3-Dichloropropene
Concen: 19.08 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.3	37.9
39	45.7	35.5	53.3





#55

1,1,2-Trichloroethane

Concen: 19.20 ug/l

RT: 10.56 min Scan# 2791

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 97 Resp: 140725

Ion Ratio Lower Upper

97 100

83 88.6 69.0 103.6

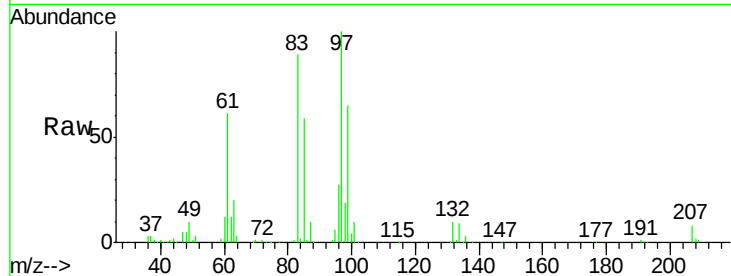
85 59.2 44.9 67.3

99 64.6 49.8 74.6

Manual Integrations
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7/18/2018 11:59:09 AM

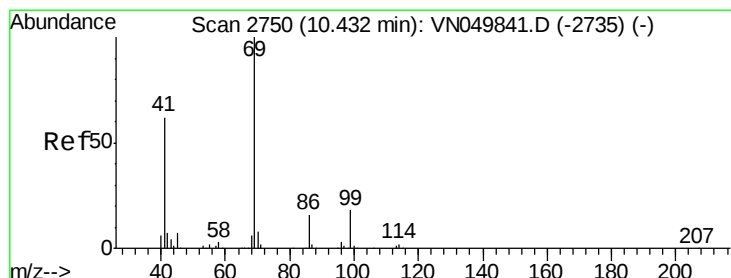
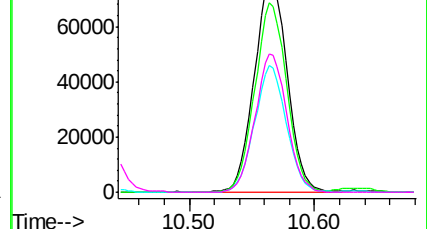
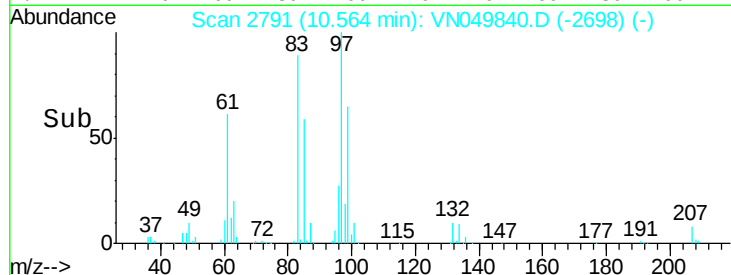


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 17.64 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

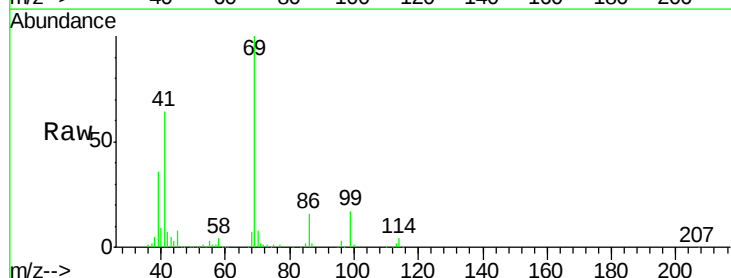
Tgt Ion: 69 Resp: 170580

Ion Ratio Lower Upper

69 100

41 64.5 51.6 77.4

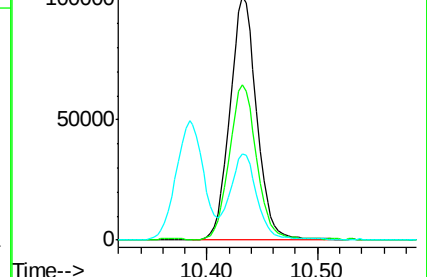
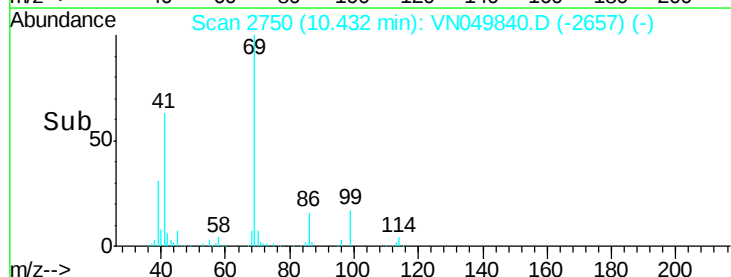
39 35.2 25.8 38.8

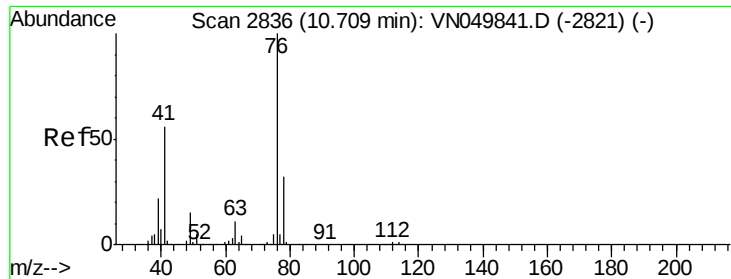


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





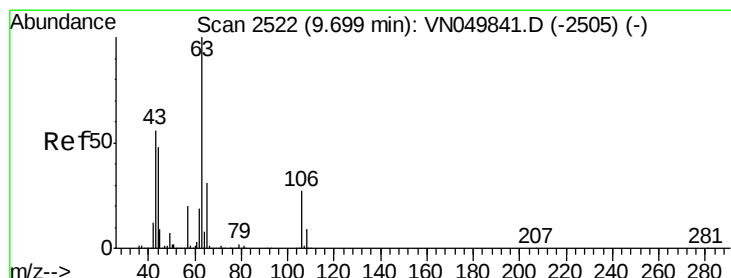
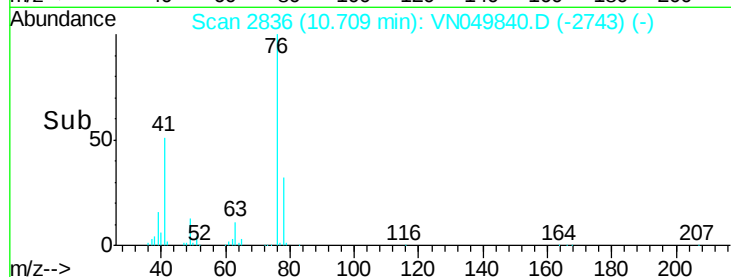
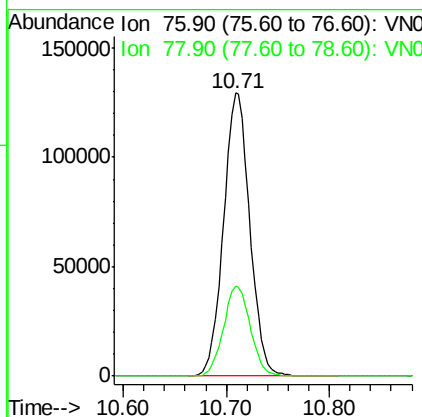
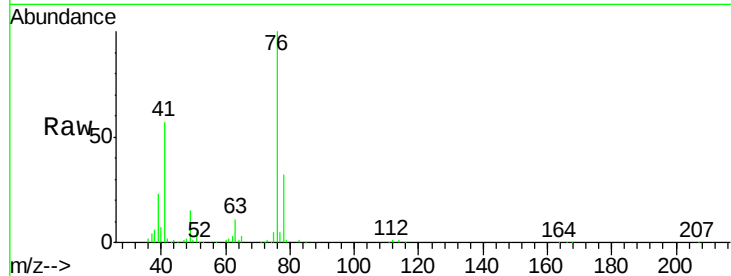
#57
 1,3-Dichloropropane
 Concen: 19.10 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8

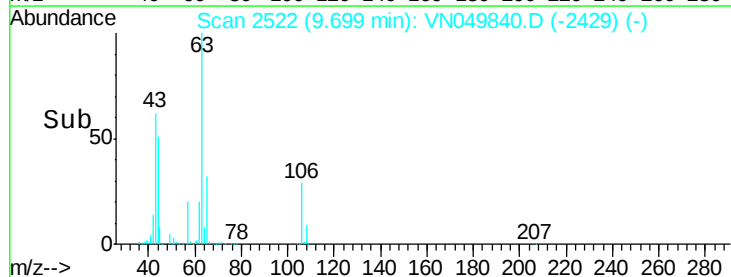
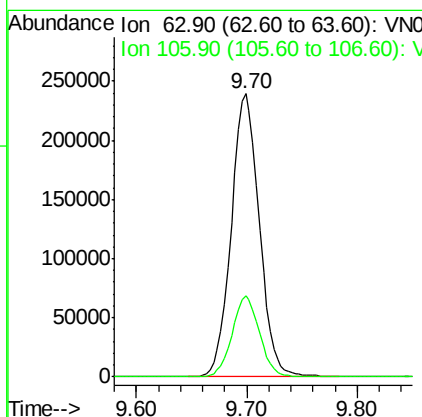
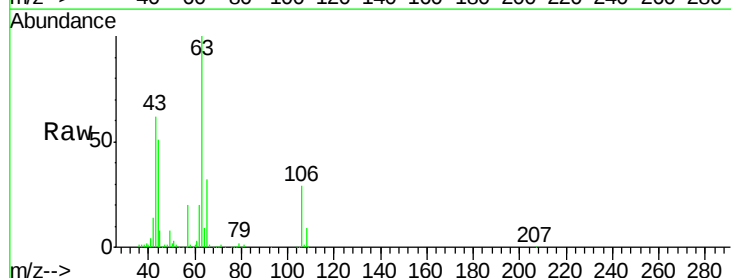
Manual Integrations
 APPROVED

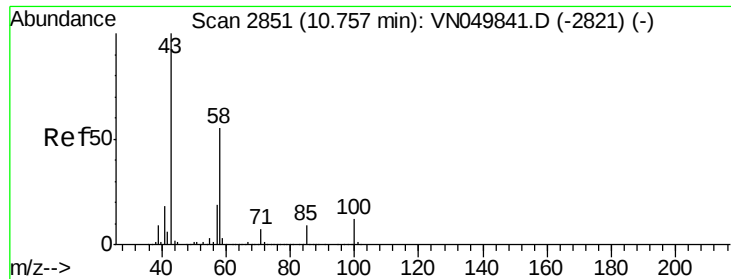
MMDadoda
 7/18/2018 11:59:09 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 93.80 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.0	21.8	32.8





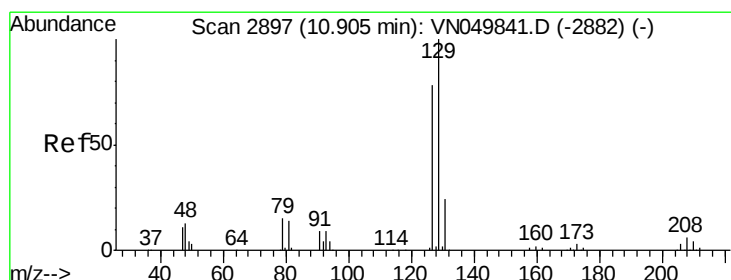
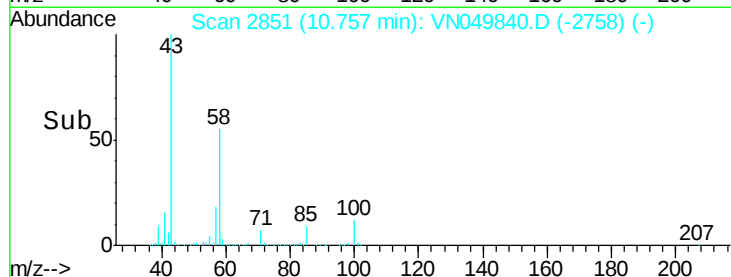
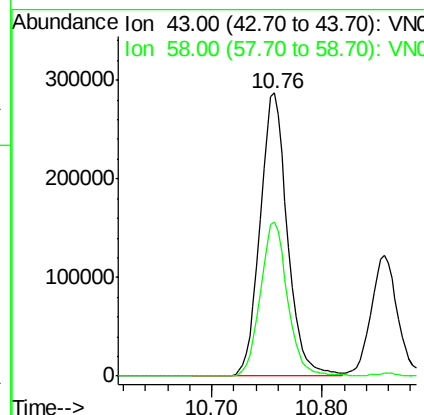
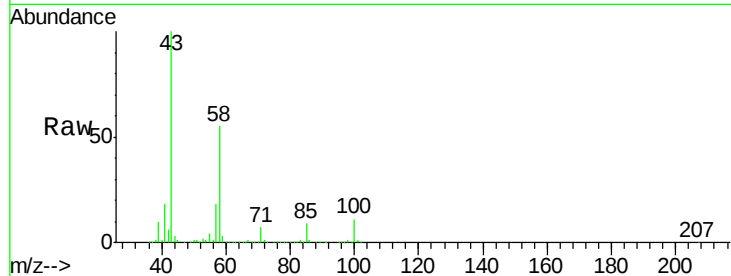
#59
2-Hexanone
Concen: 85.72 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 491587
Ion Ratio Lower Upper
43 100
58 54.3 27.8 83.4

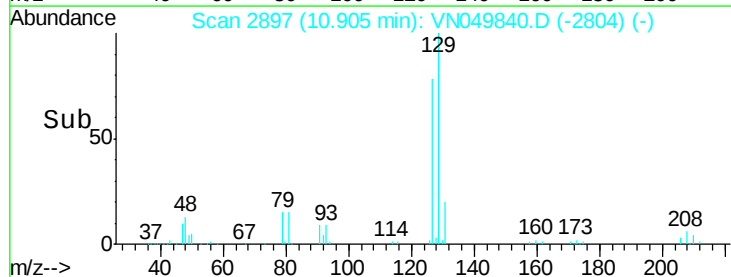
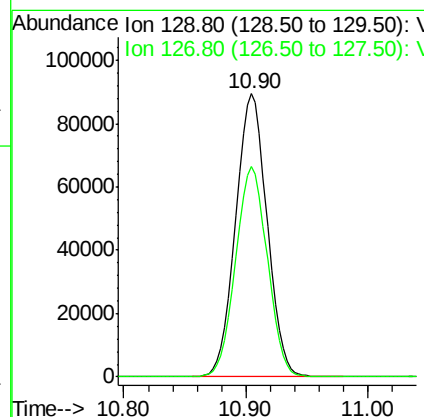
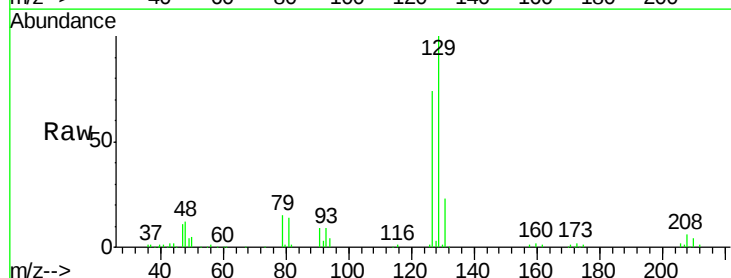
Manual Integrations
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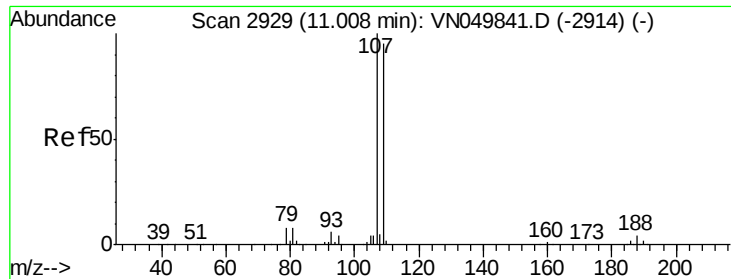
MMDadoda
7/18/2018 11:59:09 AM



#60
Dibromochloromethane
Concen: 19.60 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion: 129 Resp: 160318
Ion Ratio Lower Upper
129 100
127 75.1 38.3 114.9





#61

1,2-Dibromoethane

Concen: 19.02 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 138849

Ion Ratio Lower Upper

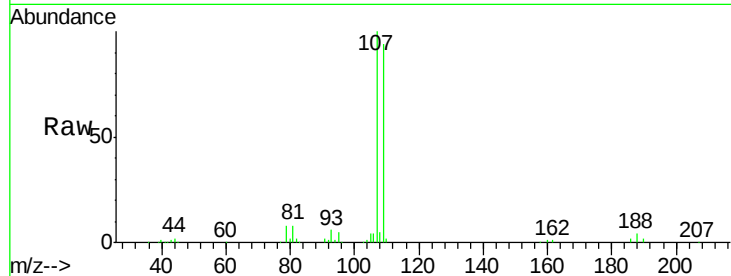
107 100

109 94.9 75.0 112.6

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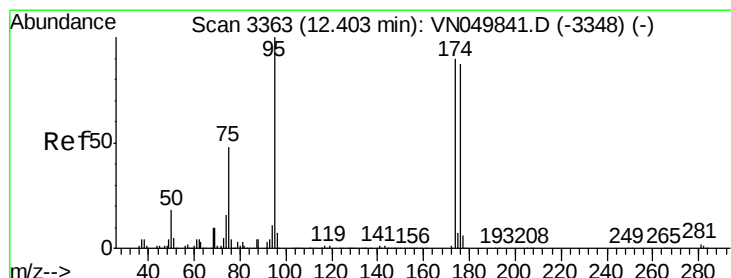
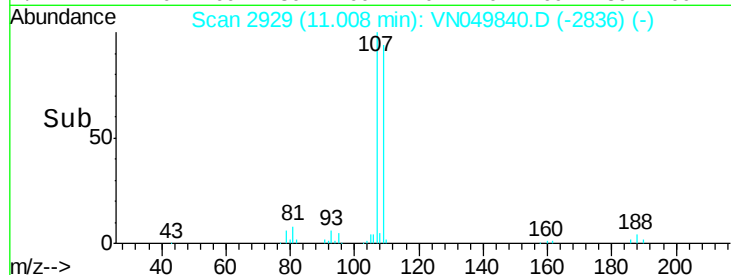
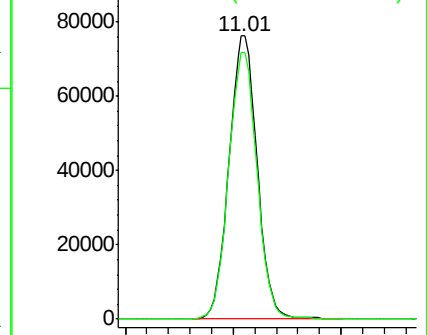
MMDadoda

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 17.70 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

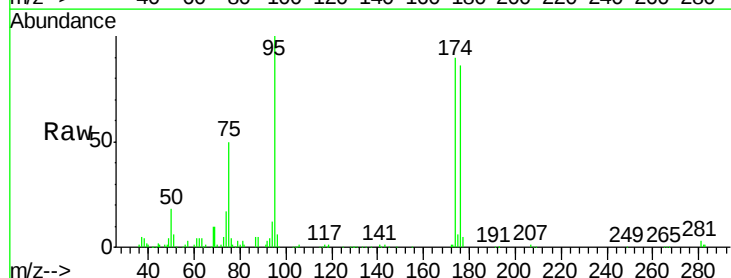
Tgt Ion: 95 Resp: 162663

Ion Ratio Lower Upper

95 100

174 91.8 0.0 179.6

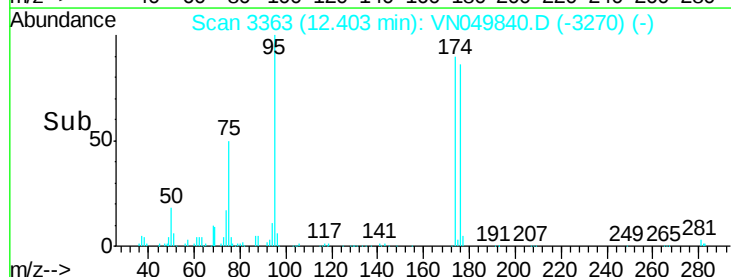
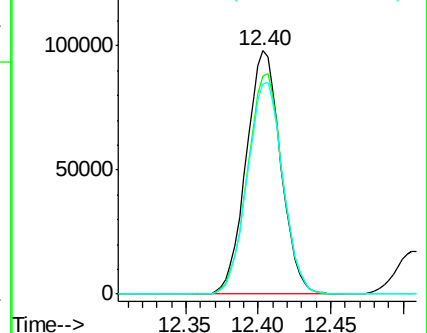
176 89.3 0.0 174.0

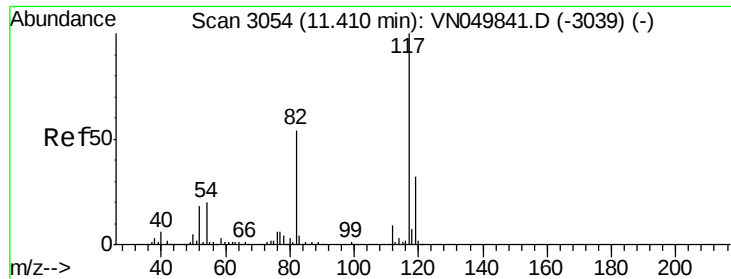


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





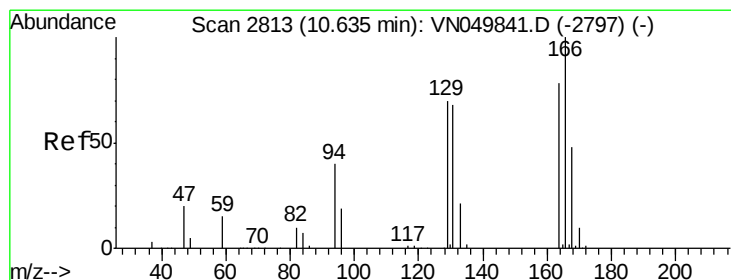
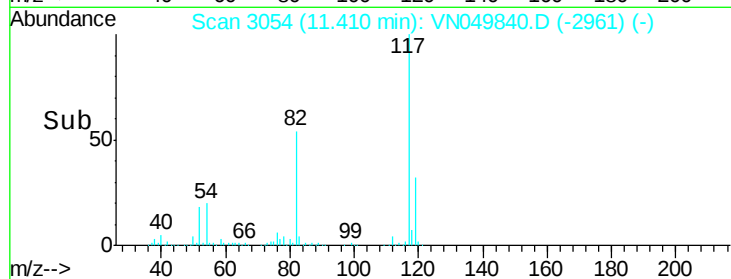
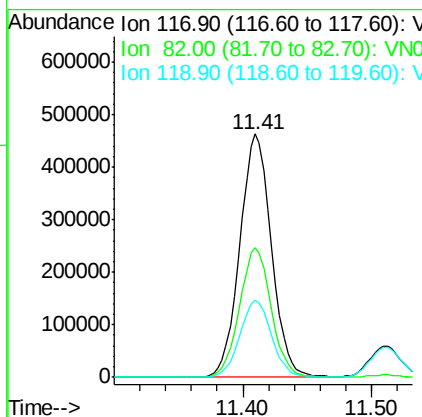
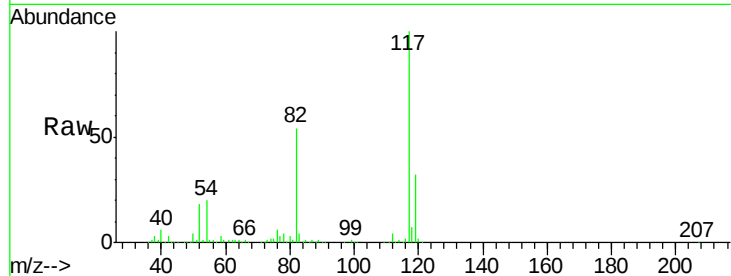
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	41.9	62.9
119	31.8	25.4	38.2

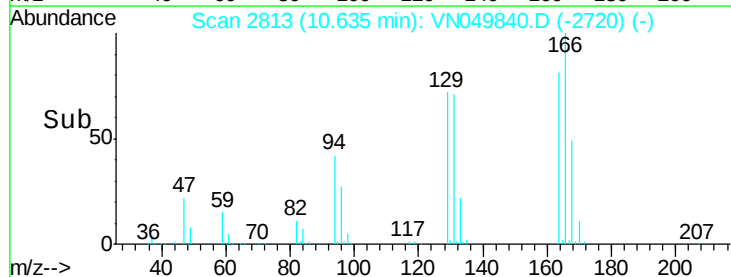
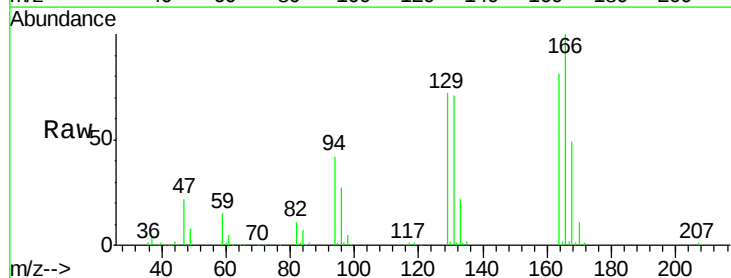
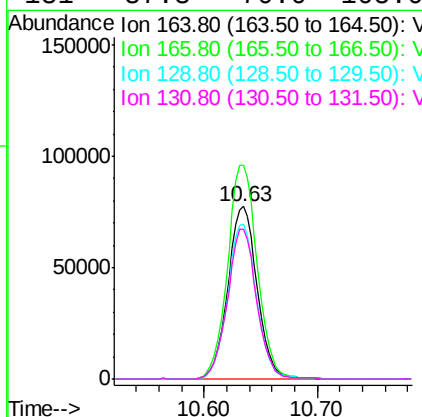
Manual Integrations
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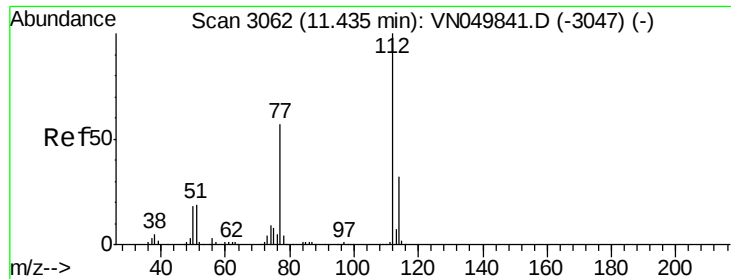
MMDadoda
7/18/2018 11:59:09 AM



#64
Tetrachloroethene
Concen: 19.10 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.8	101.8	152.6
129	89.7	72.8	109.2
131	87.3	70.0	105.0





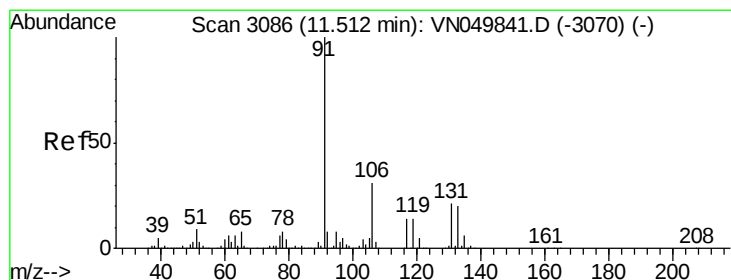
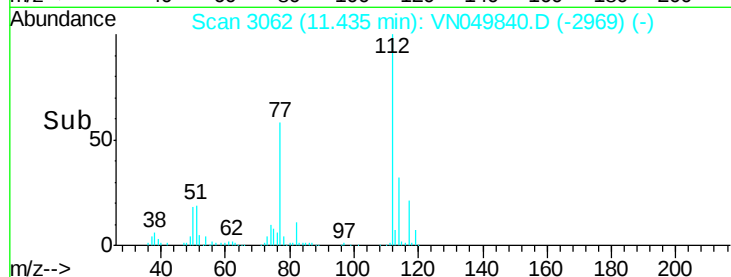
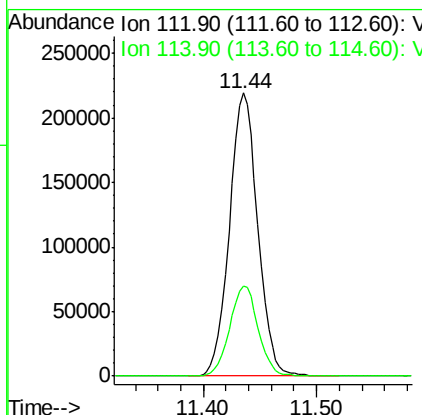
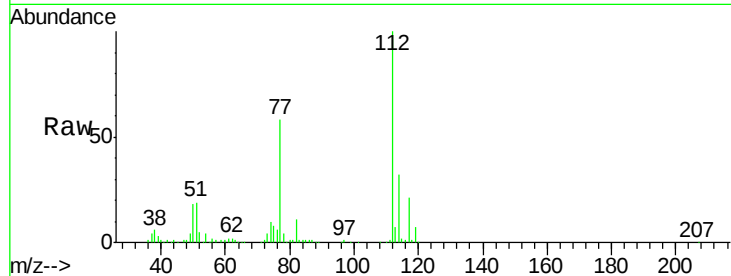
#65
Chlorobenzene
Concen: 18.69 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:112 Resp: 380873
Ion Ratio Lower Upper
112 100
114 31.8 25.4 38.0

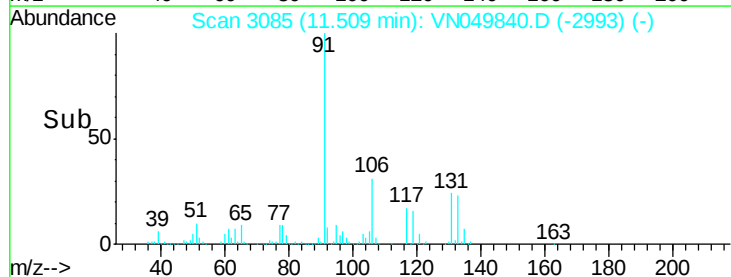
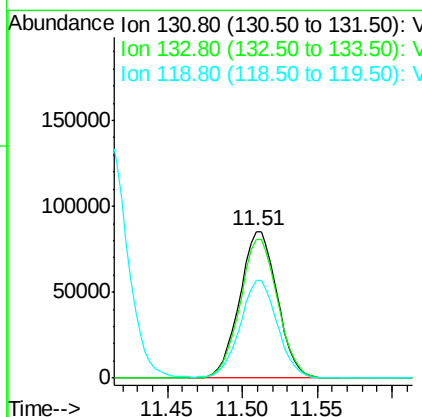
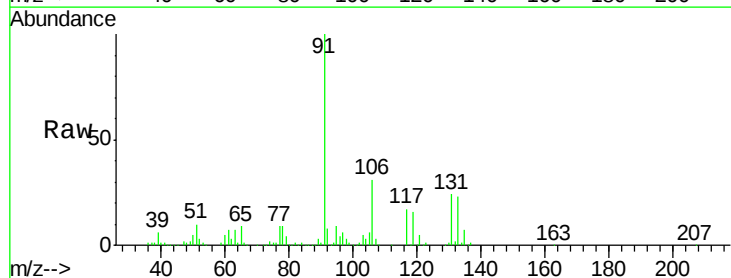
Manual Integrations
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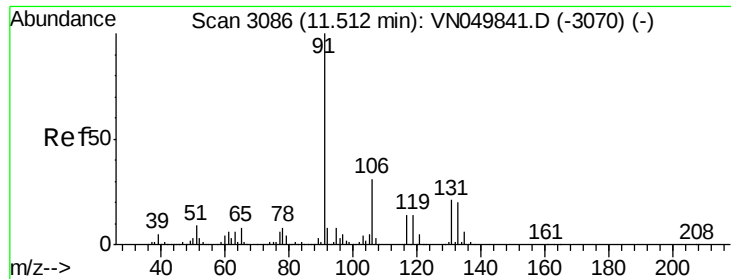
MMDadoda
7/18/2018 11:59:09 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.75 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion:131 Resp: 149578
Ion Ratio Lower Upper
131 100
133 94.8 47.5 142.6
119 66.2 33.1 99.3





#67

Ethyl Benzene

Concen: 18.85 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 628677

Ion Ratio Lower Upper

91 100

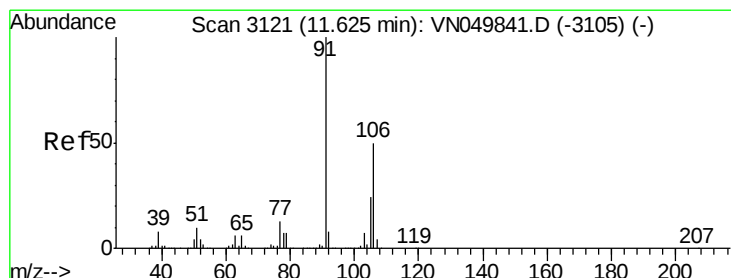
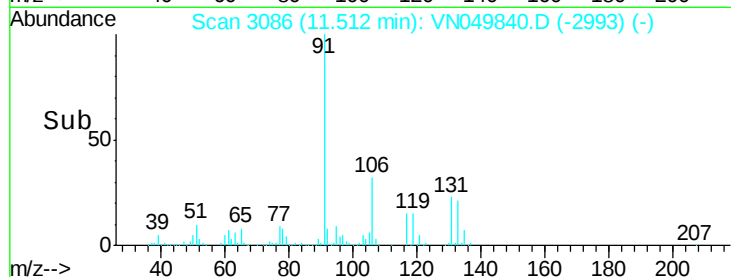
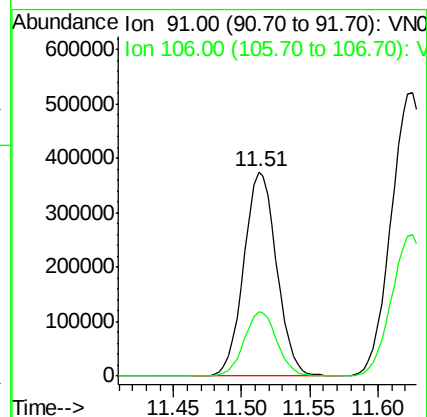
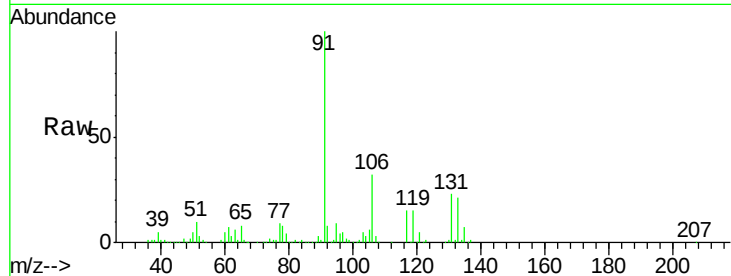
106 31.5 24.8 37.2

Manual Integrations

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7/18/2018 11:59:09 AM



#68

m/p-Xylenes

Concen: 39.08 ug/l

RT: 11.62 min Scan# 3121

Delta R.T. -0.00 min

Lab File: VN049840.D

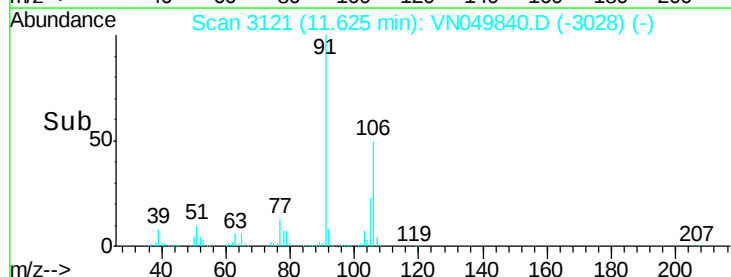
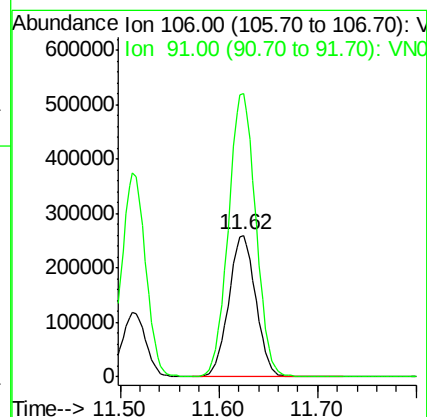
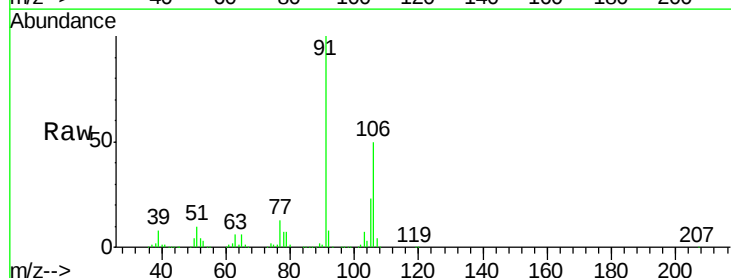
Acq: 17 Jul 2018 11:29

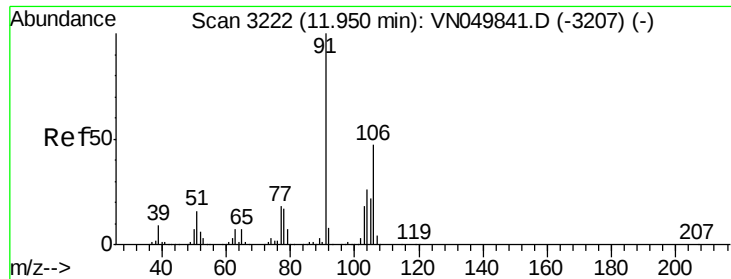
Tgt Ion: 106 Resp: 496717

Ion Ratio Lower Upper

106 100

91 202.2 163.4 245.2





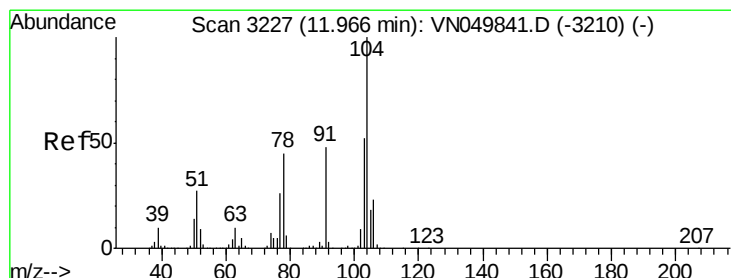
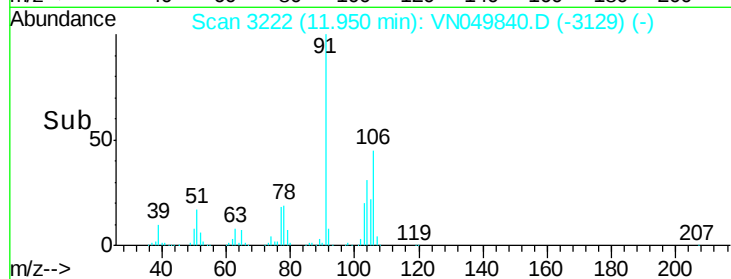
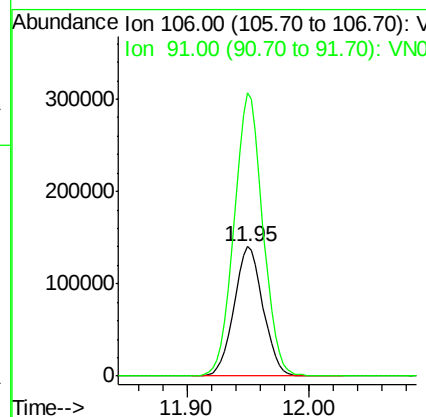
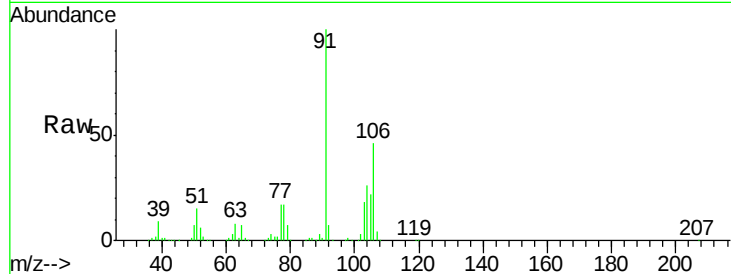
#69
o-Xylene
Concen: 19.25 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
232579	106	100		
	91	216.4	108.7	326.1

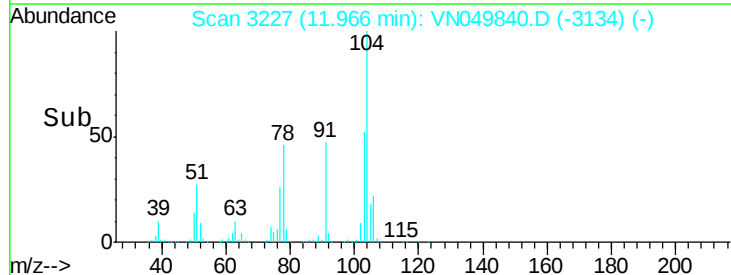
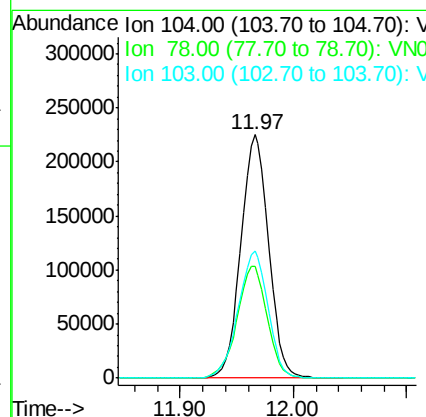
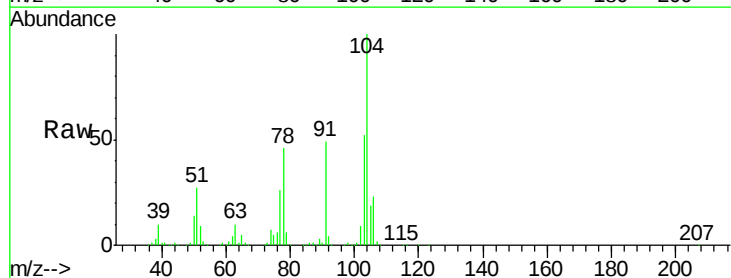
Manual Integrations
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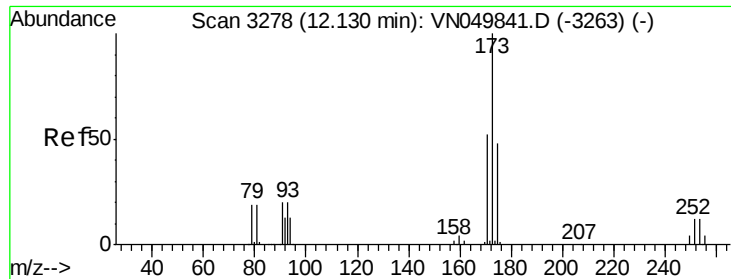
MMDadoda
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#70
Styrene
Concen: 19.50 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ion	Ratio	Lower	Upper
385797	104	100		
	78	49.7	39.2	58.8
	103	55.9	44.6	67.0





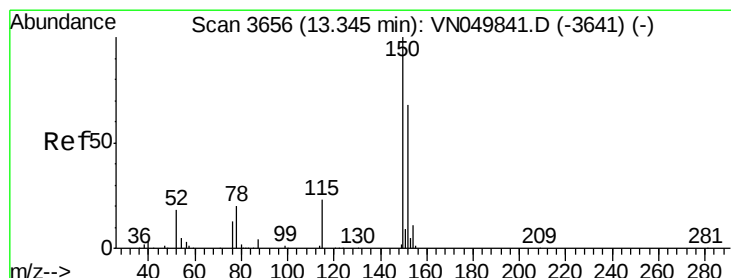
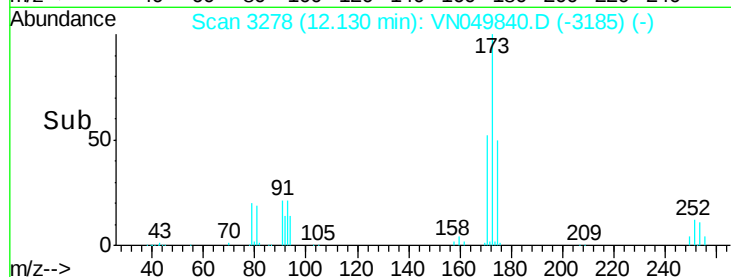
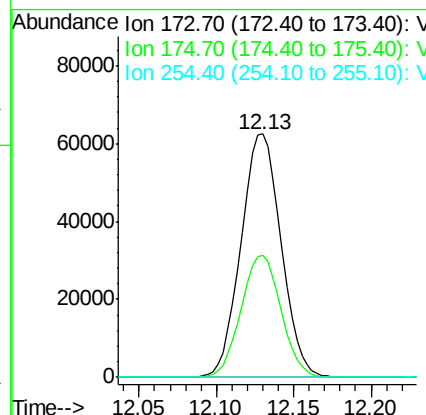
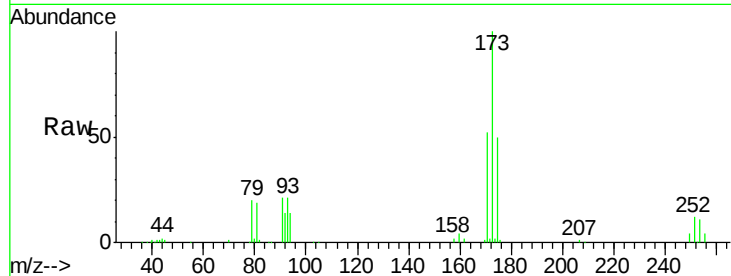
#71
Bromoform
Concen: 18.73 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.6	73.8
254	0.0	0.2	0.2

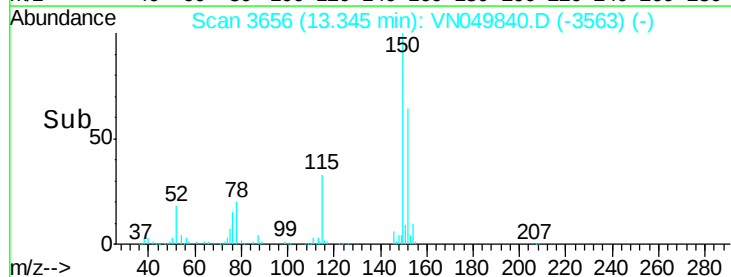
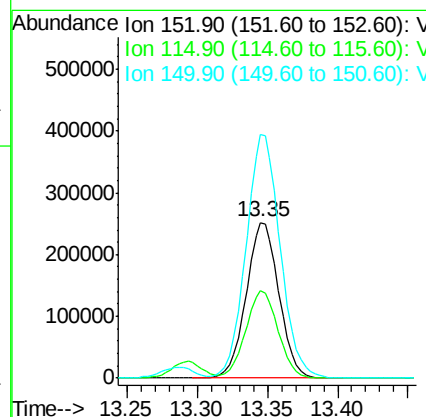
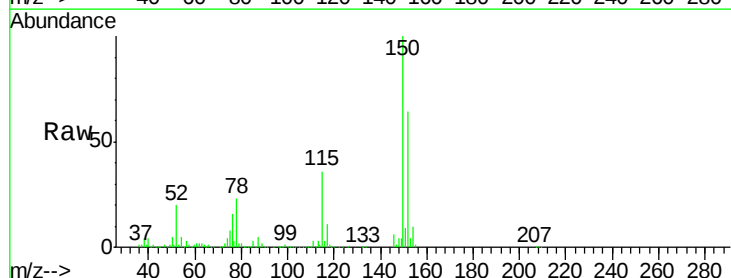
Manual Integrations
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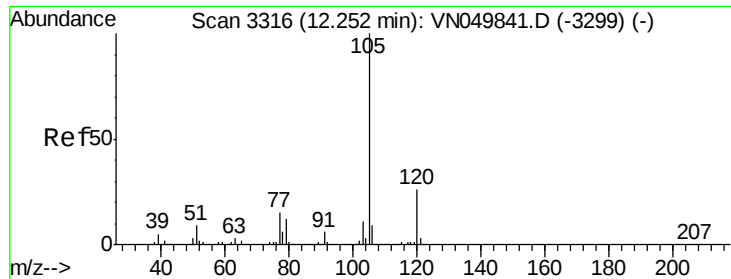
MMDadoda
7/18/2018 11:59:09 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.1	84.2
150	164.5	0.0	347.6





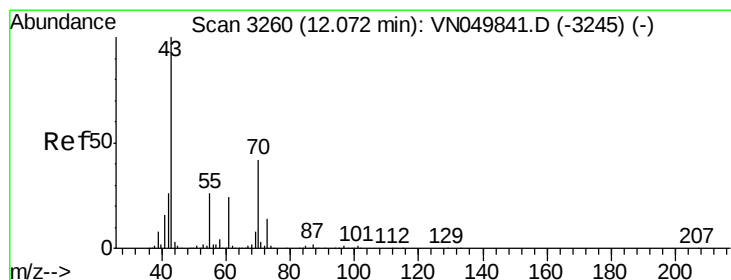
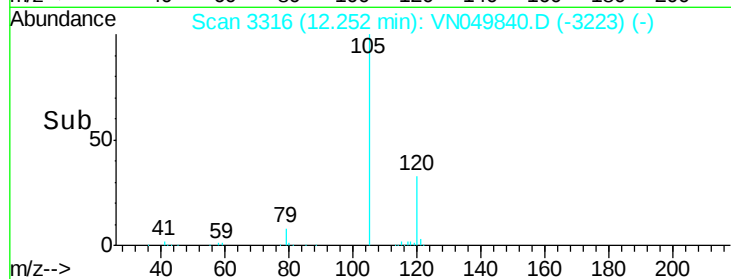
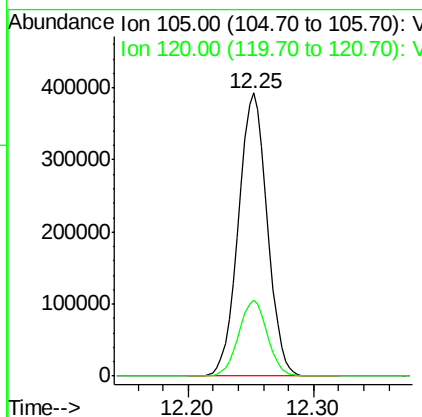
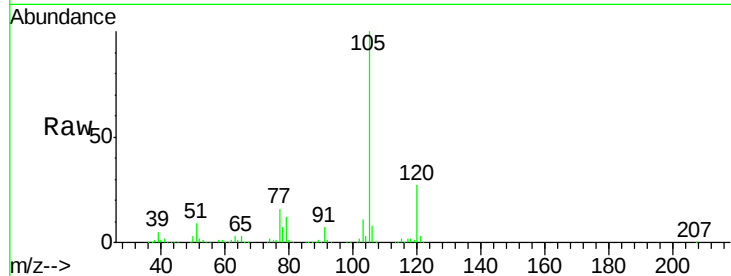
#73
Isopropylbenzene
Concen: 19.39 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.3	39.8

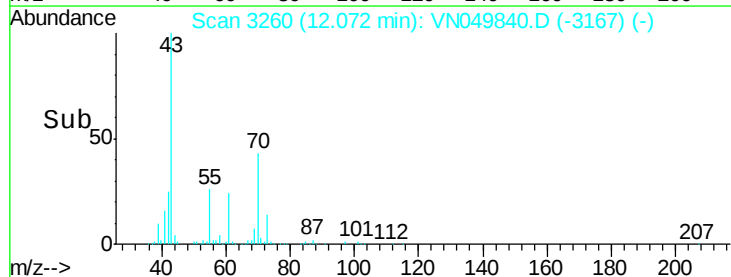
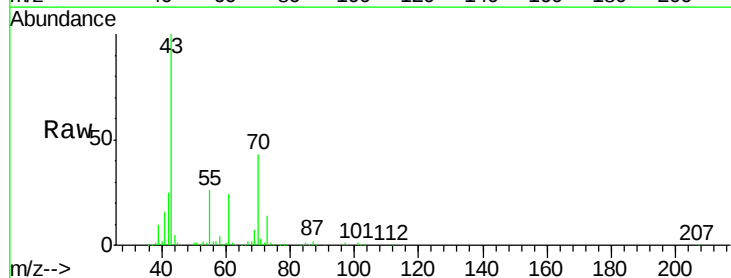
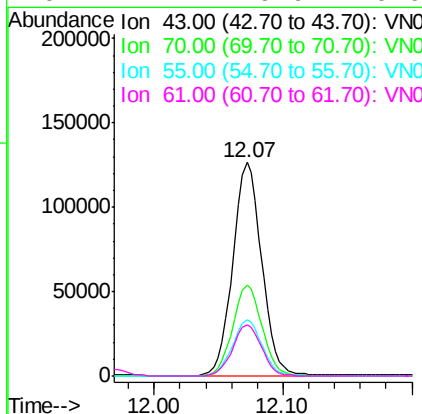
Manual Integrations
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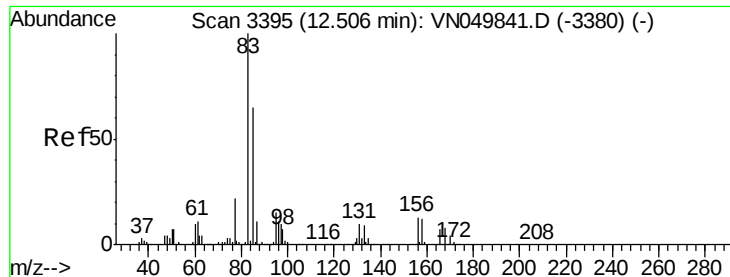
MMDadoda
7/18/2018 11:59:09 AM



#74
N-ethyl acetate
Concen: 17.34 ug/l
RT: 12.07 min Scan# 3260
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.7	34.8	52.2
55	26.8	20.9	31.3
61	24.2	19.9	29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 18.47 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

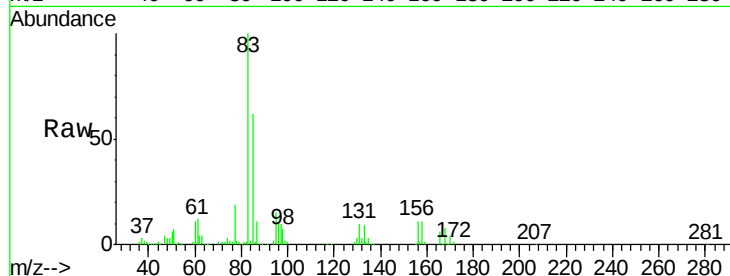
ClientSampleId :

VSTDIC020

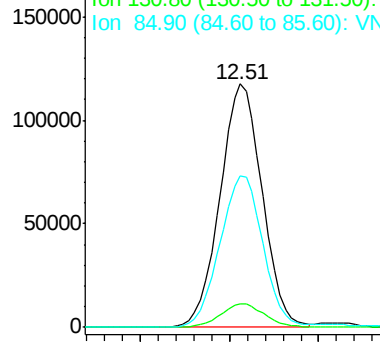
Tot Ion:	83	Resp:	193730
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.2	15.6
85	63.7	32.5	97.4

Manual Integrations
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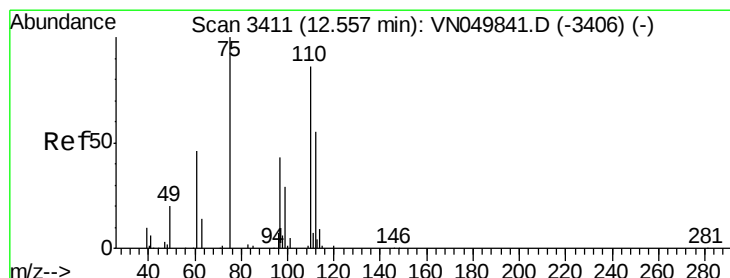
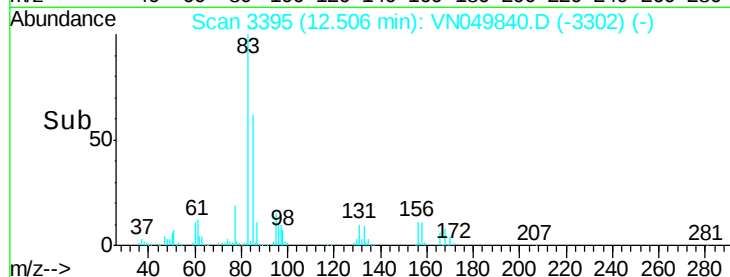
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Abundance Ion 82.90 (82.60 to 83.60): VN049840.D (-3380) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 17.75 ug/l m

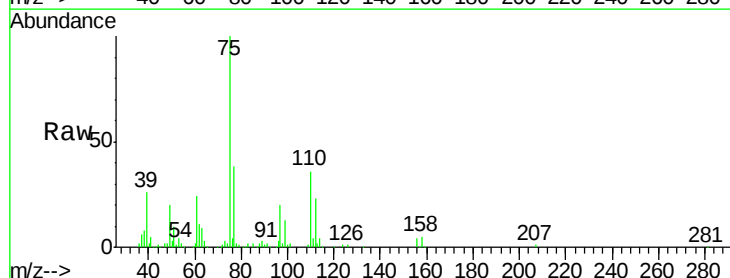
RT: 12.56 min Scan# 3411

Delta R.T. -0.00 min

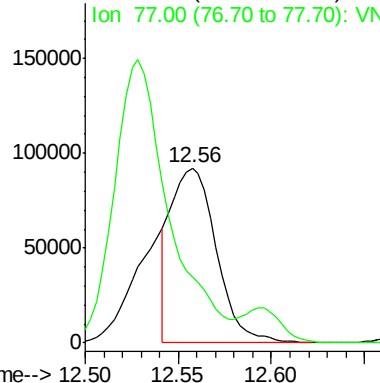
Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

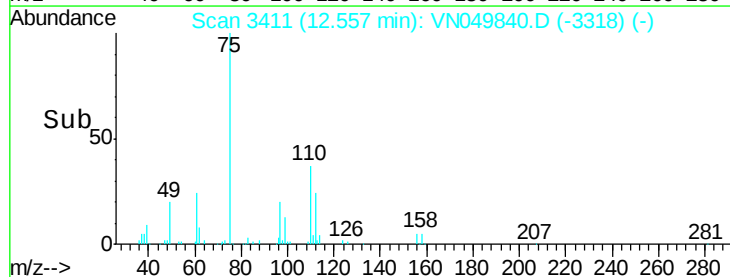
Tgt Ion:	75	Resp:	155588
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

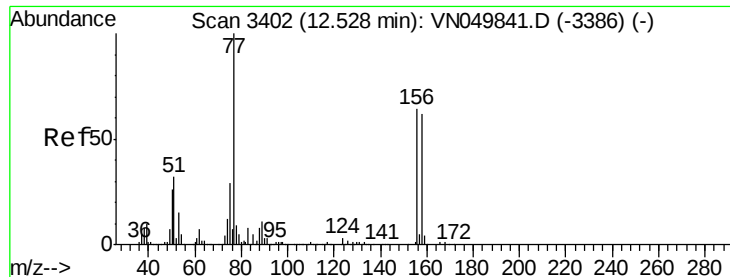


Abundance Ion 74.90 (74.60 to 75.60): VN049840.D (-3406) (-)



Time-->





#77

Bromobenzene

Concen: 18.94 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

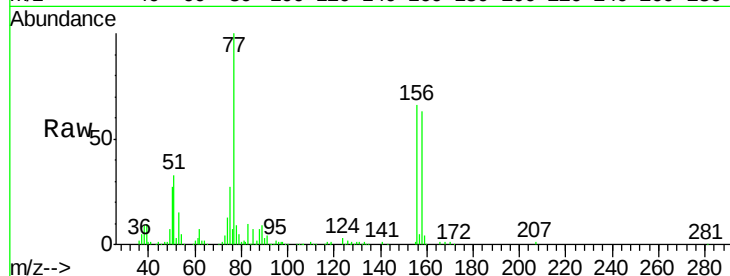
ClientSampled :

VSTDIC020

Tot Ion:	156	Resp:	166454
Ion Ratio	Lower	Upper	
156	100		
77	184.7	90.2	270.6
158	97.0	49.1	147.3

Manual Integrations
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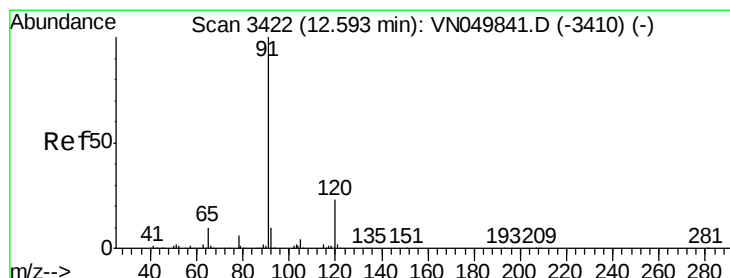
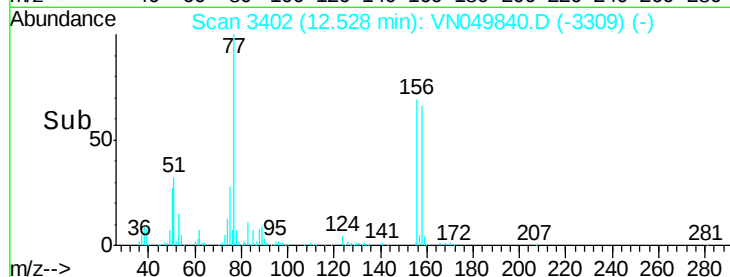
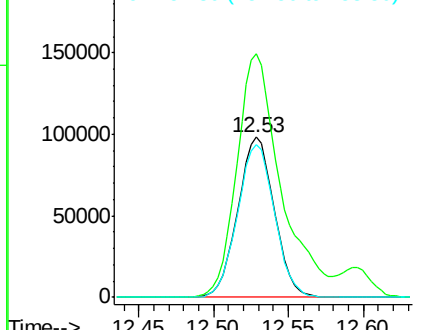
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.45 ug/l

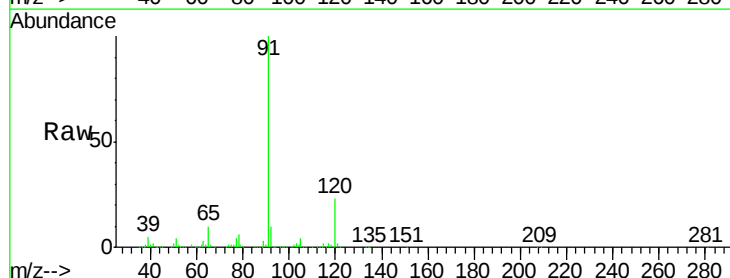
RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN049840.D

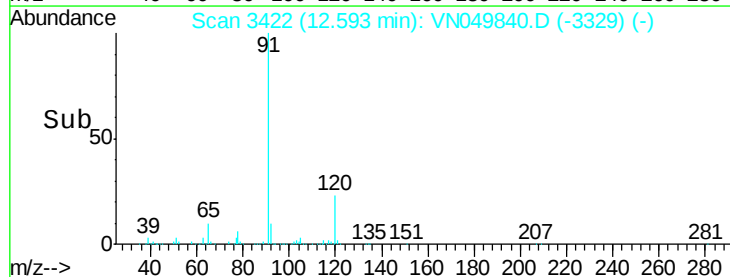
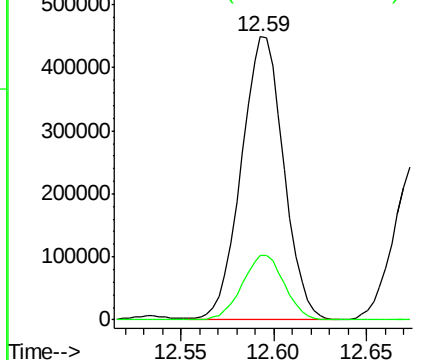
Acq: 17 Jul 2018 11:29

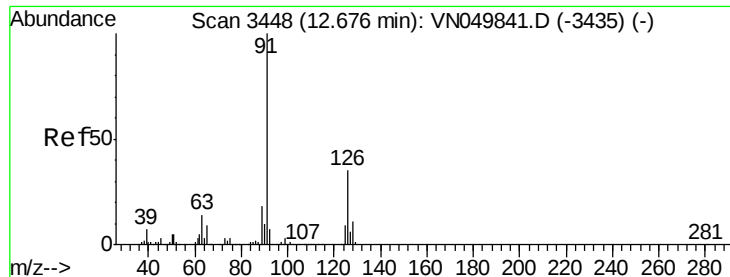
Tgt Ion:	91	Resp:	712569
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.5	34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.26 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 437371

Ion Ratio Lower Upper

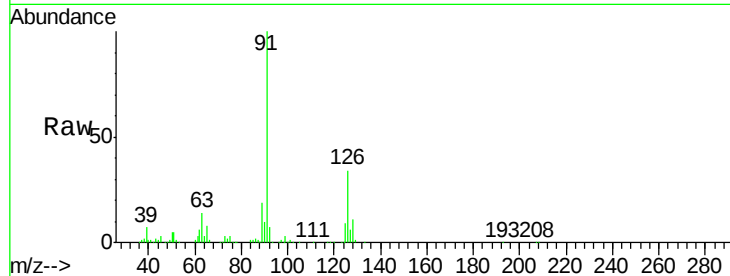
91 100

126 34.5 17.5 52.5

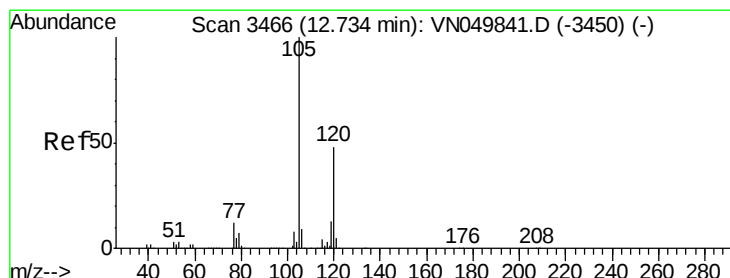
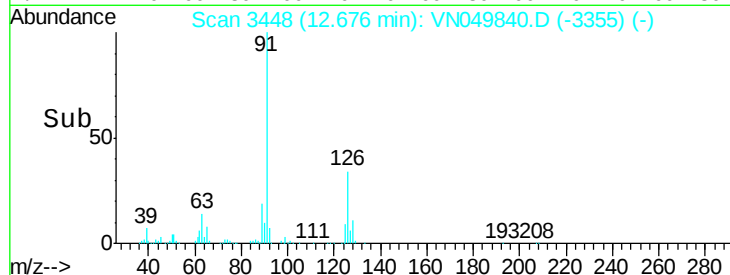
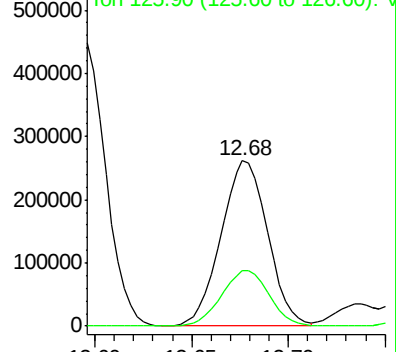
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Abundance Ion 91.00 (90.70 to 91.70): VN049841.D (-3435) (-)



#80

1,3,5-Trimethylbenzene

Concen: 20.10 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN049840.D

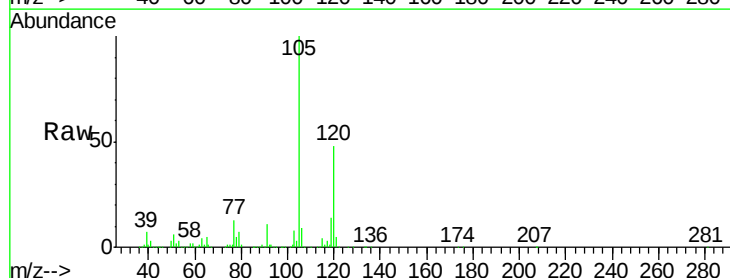
Acq: 17 Jul 2018 11:29

Tgt Ion: 105 Resp: 514847

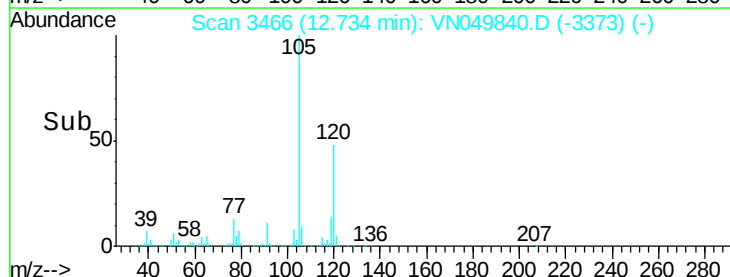
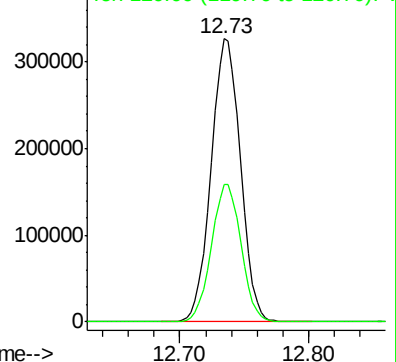
Ion Ratio Lower Upper

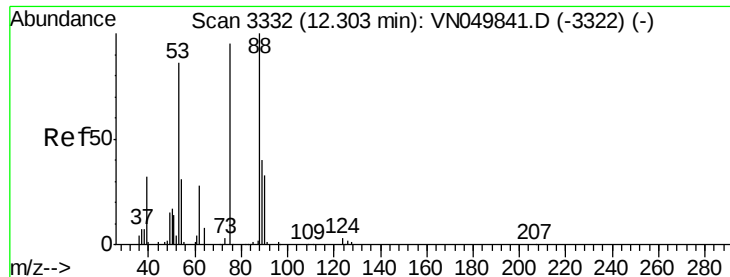
105 100

120 49.2 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049841.D (-3450) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 17.96 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

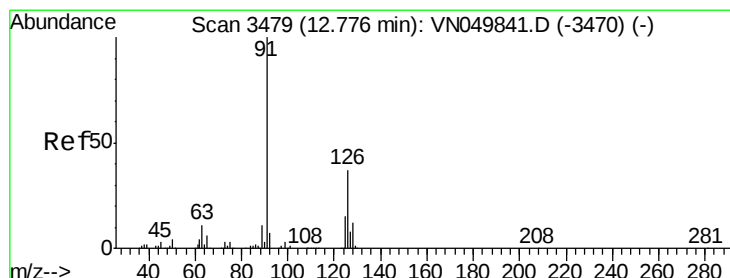
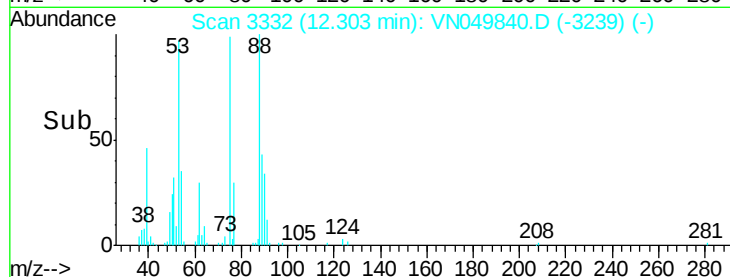
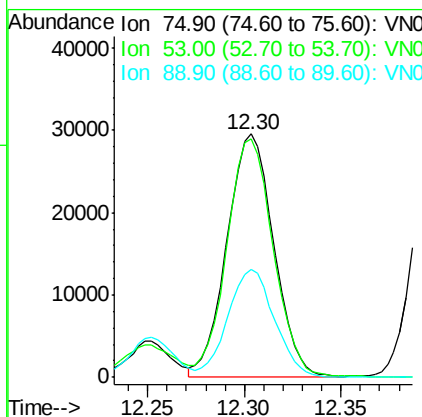
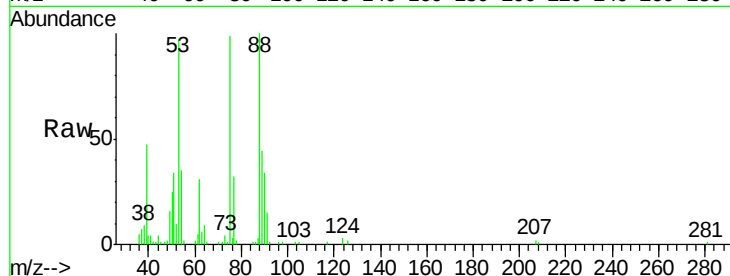
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	49877
Ion Ratio	Lower	Upper	
75	100		
53	97.5	73.9	110.9
89	44.1	35.9	53.9

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.07 ug/l

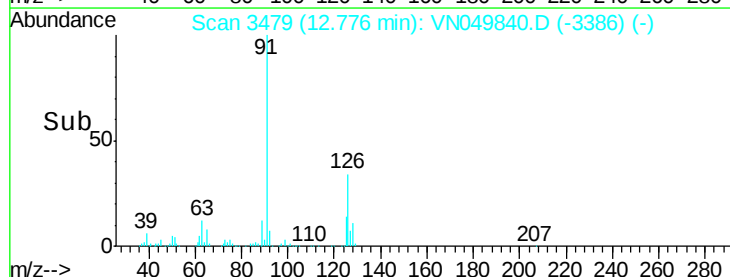
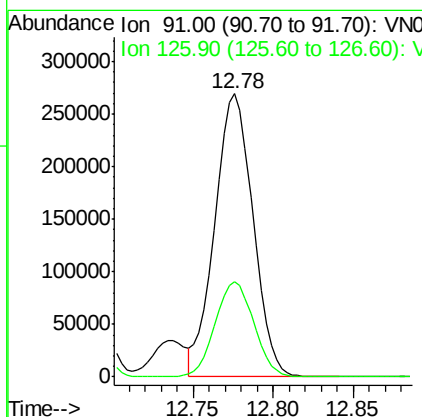
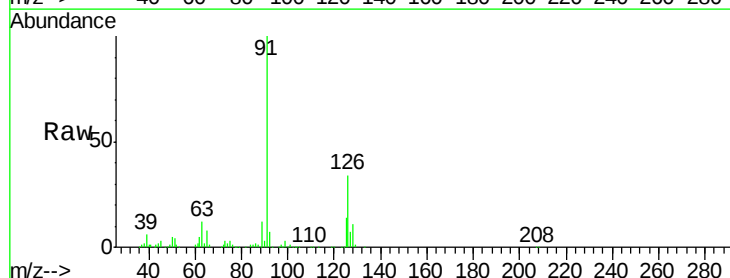
RT: 12.78 min Scan# 3479

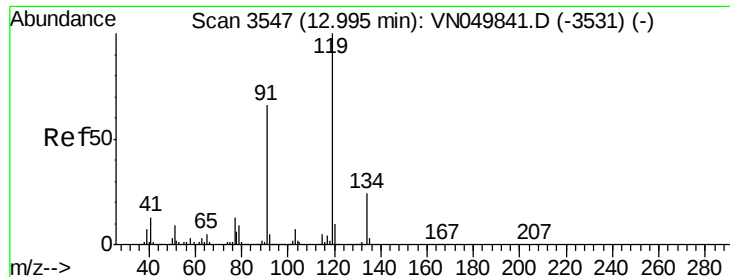
Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Tgt Ion:	91	Resp:	439579
Ion Ratio	Lower	Upper	
91	100		
126	34.0	17.2	51.6





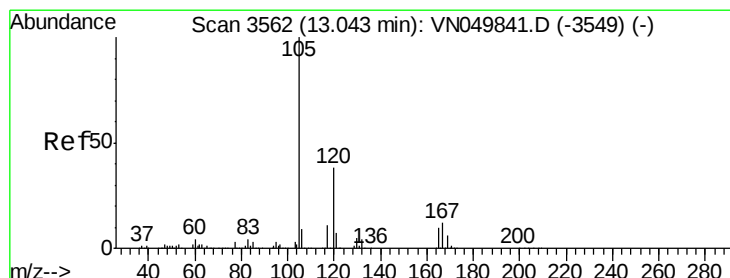
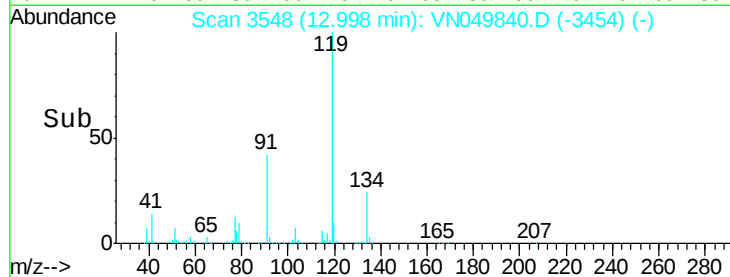
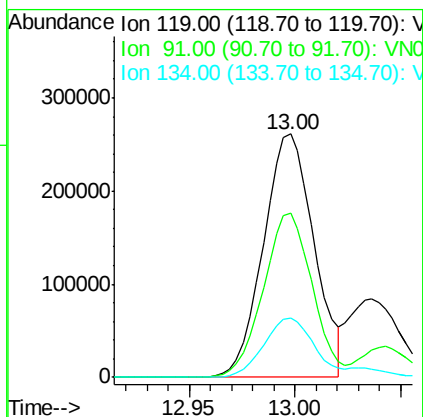
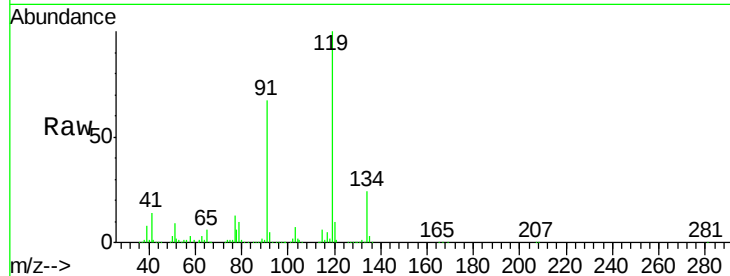
#83
 tert-Butylbenzene
 Concen: 19.22 ug/l
 RT: 13.00 min Scan# 3548
 Delta R.T. 0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.9	32.0	96.2
134	24.2	12.8	38.4

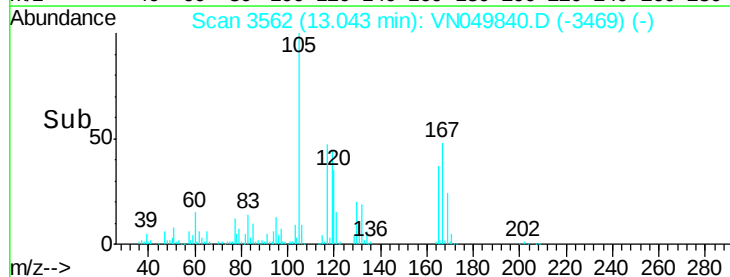
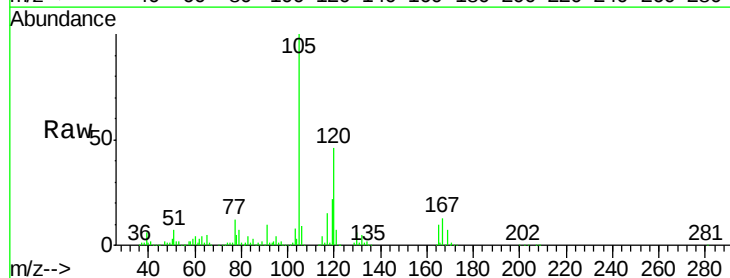
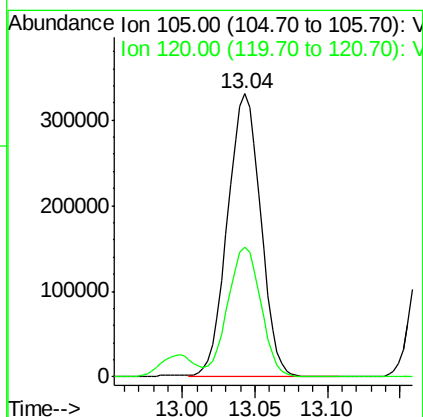
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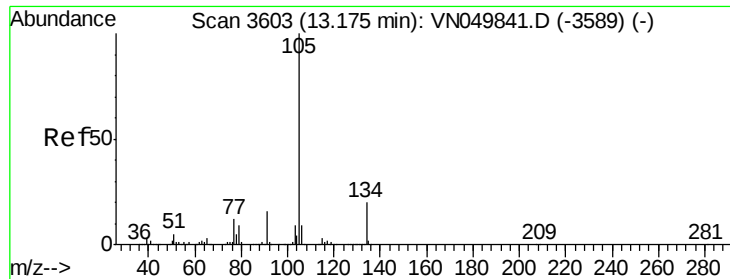
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.12 ug/l
 RT: 13.04 min Scan# 3562
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.7	68.1





#85

sec-Butylbenzene

Concen: 19.72 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:105 Resp: 593794

Ion Ratio Lower Upper

105 100

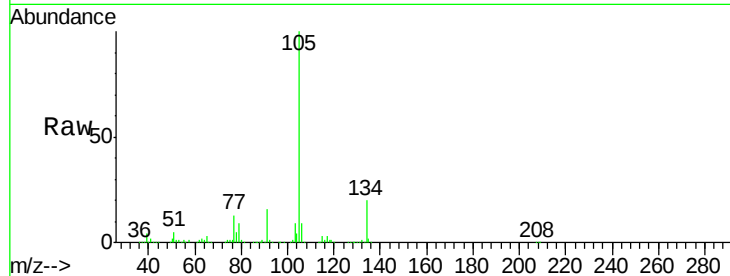
134 19.8 10.1 30.1

Manual Integrations

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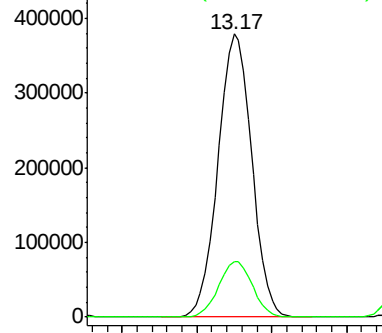
MMDadoda

7/18/2018 11:59:09 AM

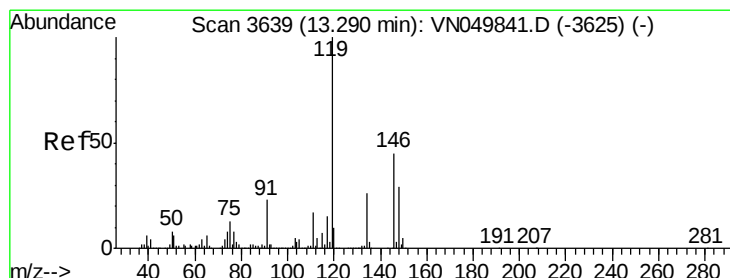
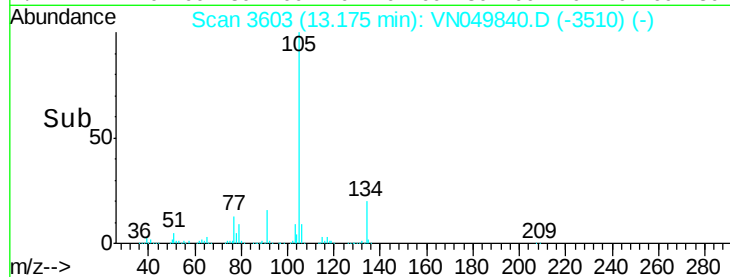


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time--> 13.10 13.15 13.20 13.25



#86

p-Isopropyltoluene

Concen: 19.82 ug/l

RT: 13.29 min Scan# 3640

Delta R.T. 0.00 min

Lab File: VN049840.D

Acq: 17 Jul 2018 11:29

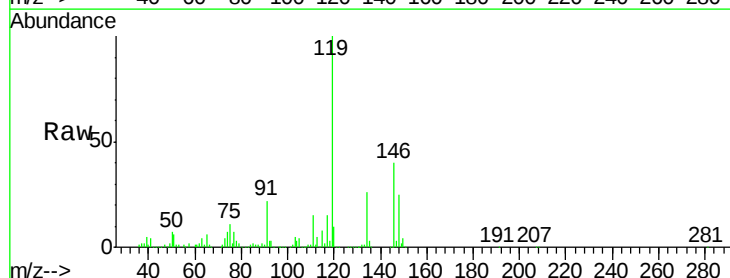
Tgt Ion:119 Resp: 508841

Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.9

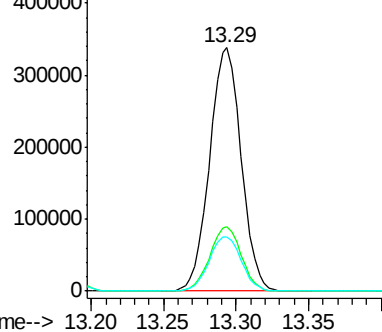
91 22.8 11.4 34.1



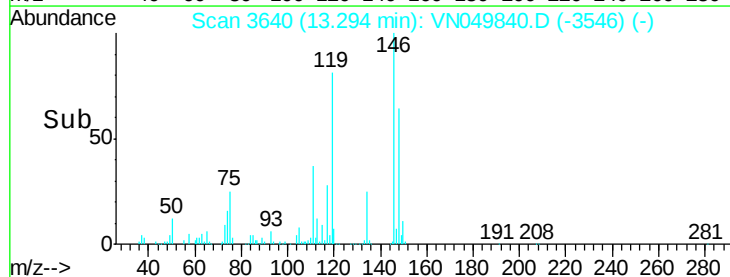
Abundance Ion 119.00 (118.70 to 119.70): V

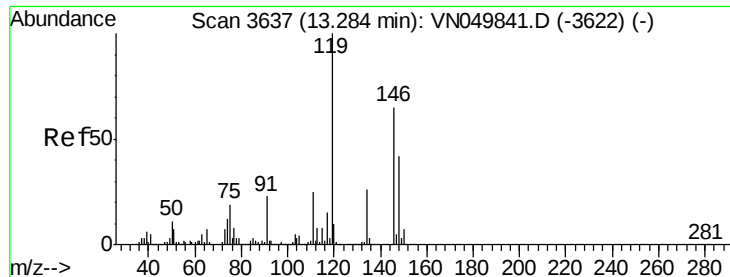
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time--> 13.20 13.25 13.30 13.35





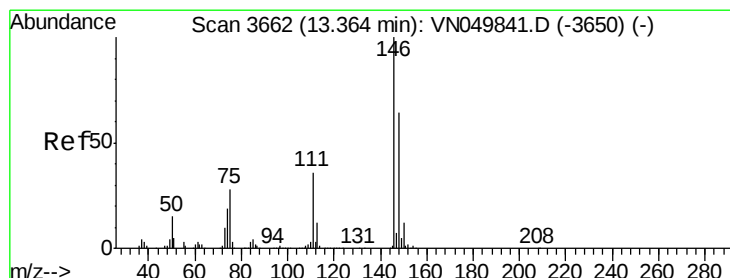
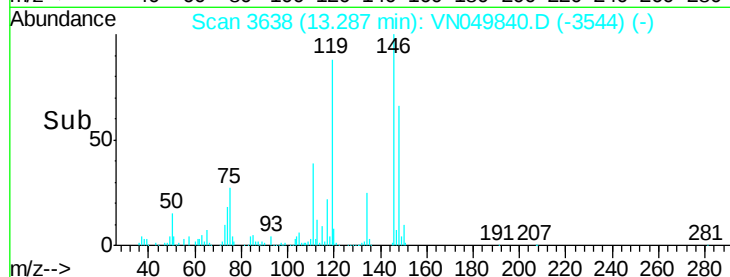
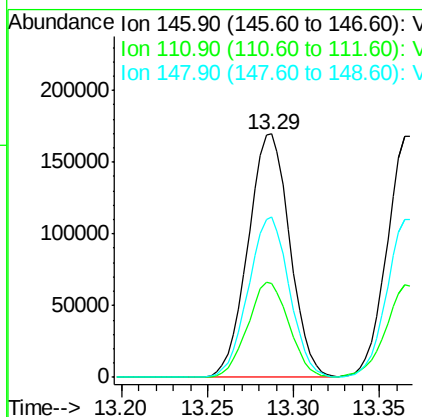
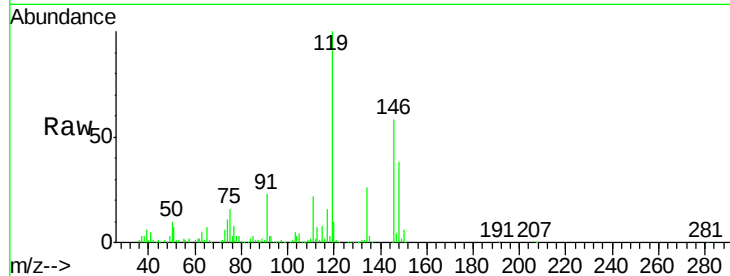
#87
 1,3-Dichlorobenzene
 Concen: 18.34 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. 0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.0	57.0
148	64.7	32.5	97.5

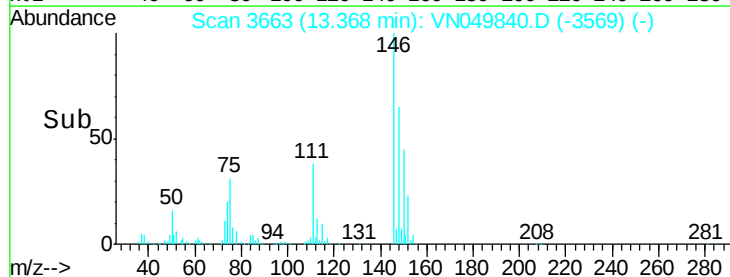
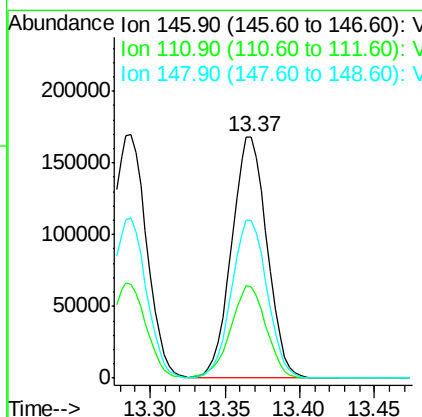
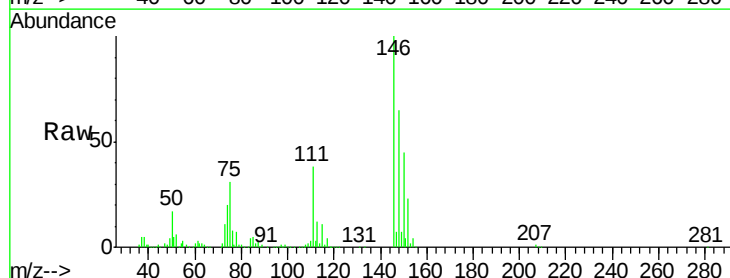
Manual Integrations
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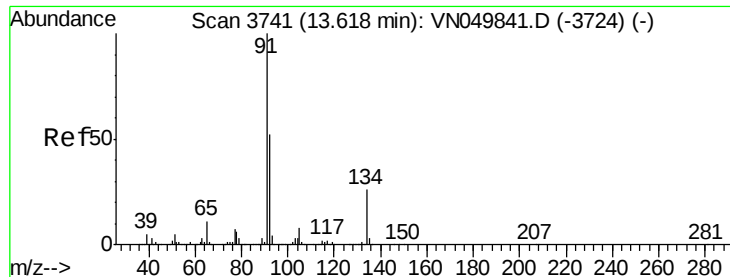
MMDadoda
 7/18/2018 11:59:09 AM



#88
 1,4-Dichlorobenzene
 Concen: 17.49 ug/l
 RT: 13.37 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.9	56.5
148	65.7	32.1	96.3





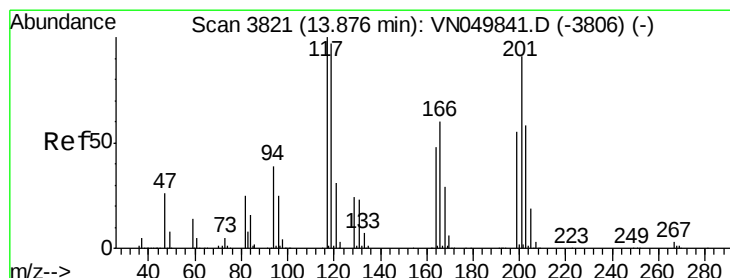
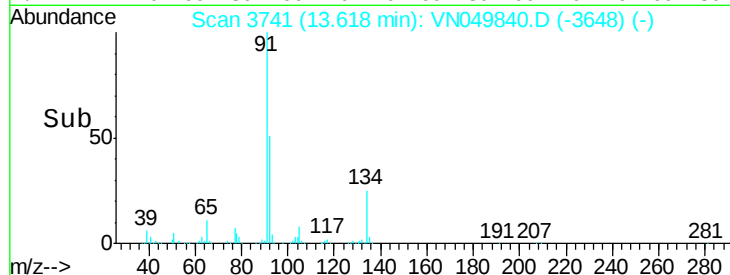
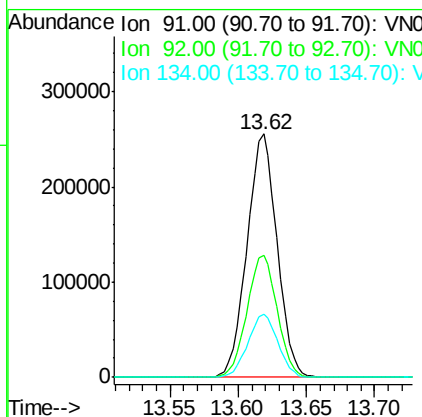
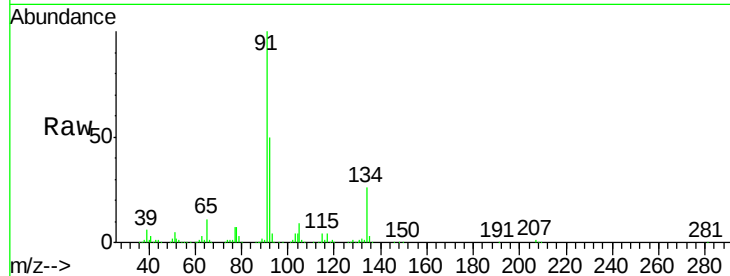
#89
n-Butylbenzene
Concen: 18.05 ug/l
RT: 13.62 min Scan# 3741
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.4	25.8	77.3
134	25.8	13.0	38.9

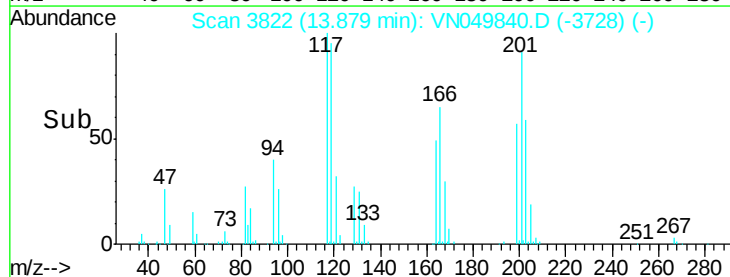
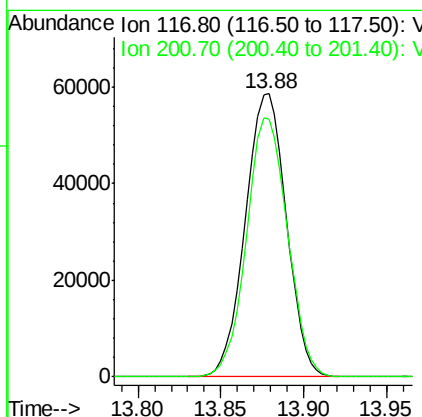
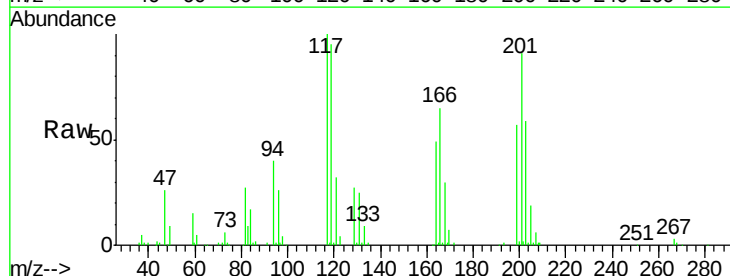
Manual Integrations
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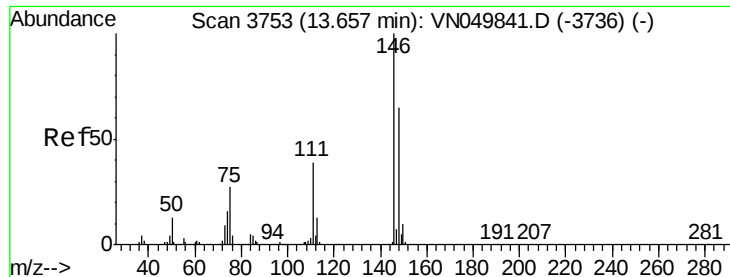
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#90
Hexachloroethane
Concen: 18.50 ug/l
RT: 13.88 min Scan# 3822
Delta R.T. 0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.3	45.3	135.8





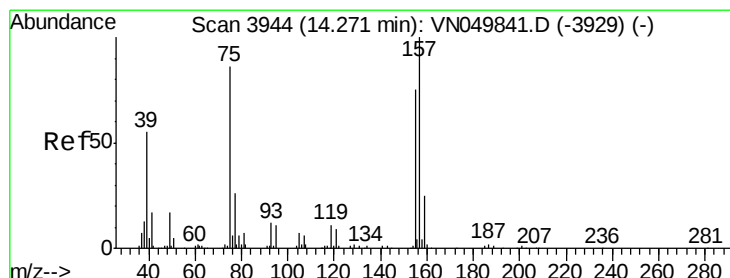
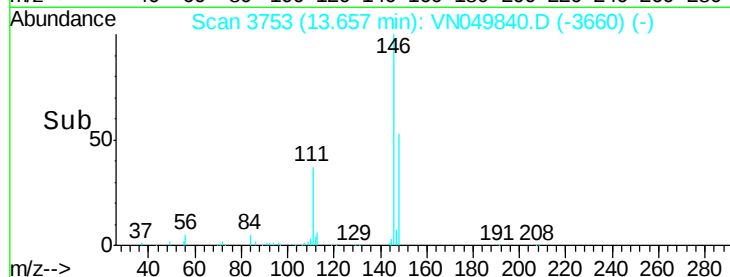
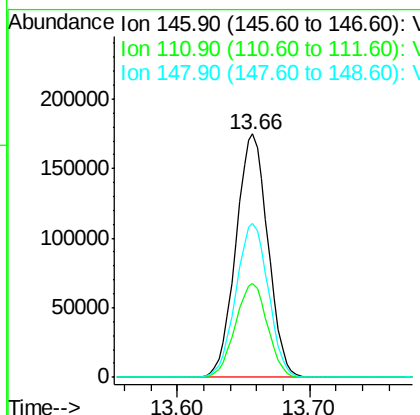
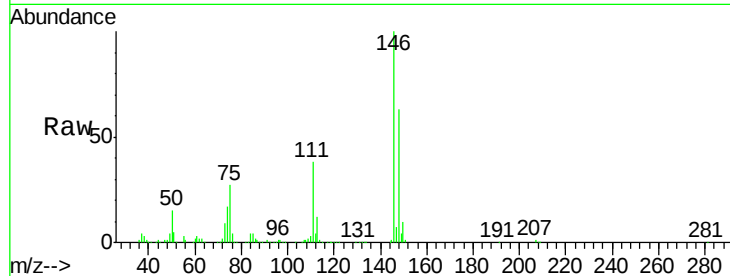
#91
 1,2-Dichlorobenzene
 Concen: 19.00 ug/l
 RT: 13.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.7	59.1
148	64.2	32.0	96.2

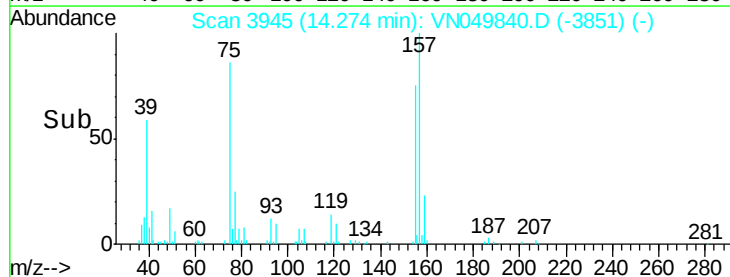
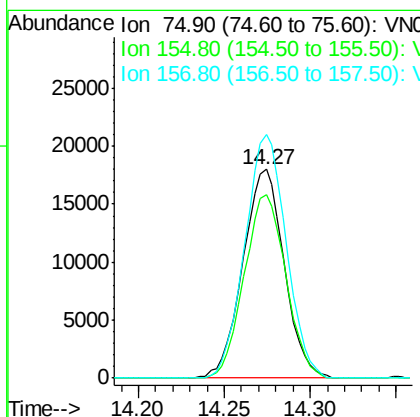
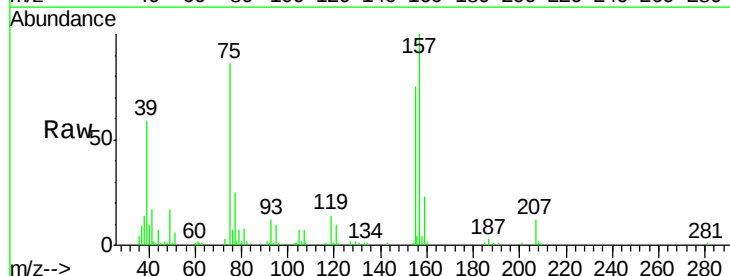
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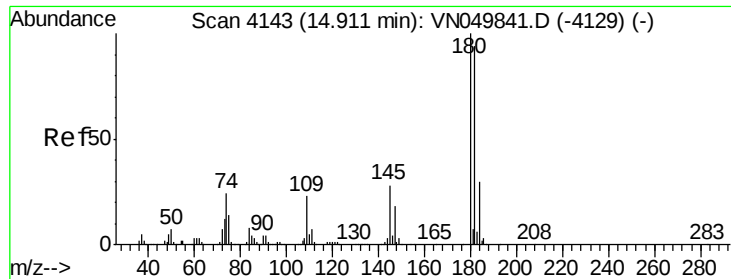
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.19 ug/l
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.8	45.7	137.1
157	116.7	56.9	170.7





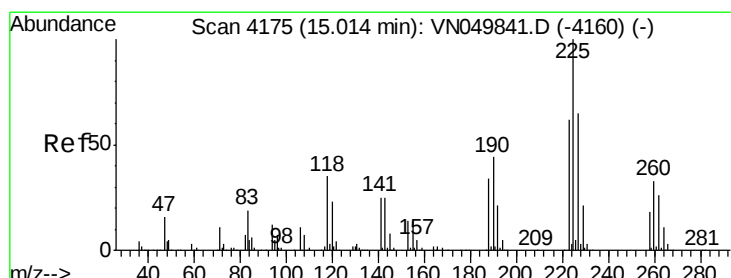
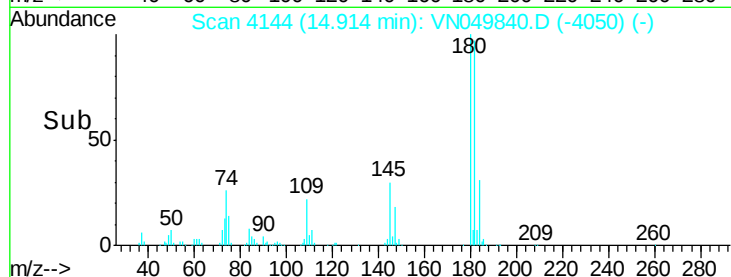
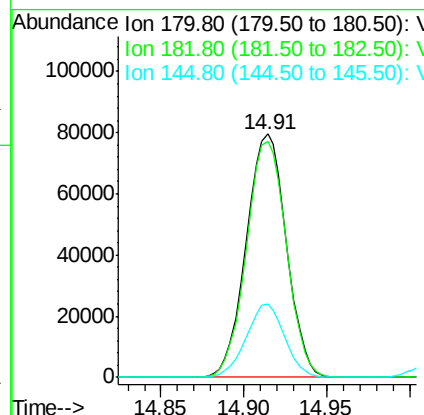
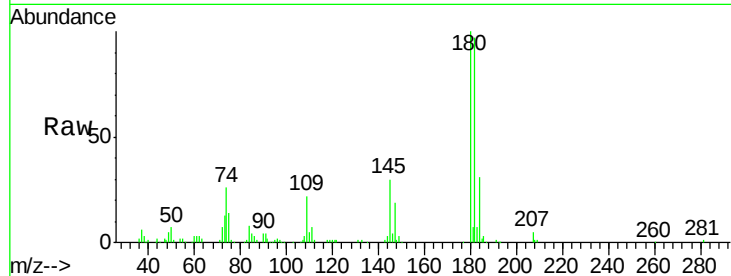
#93
 1,2,4-Trichlorobenzene
 Concen: 17.08 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.3	141.9
145	28.8	14.4	43.0

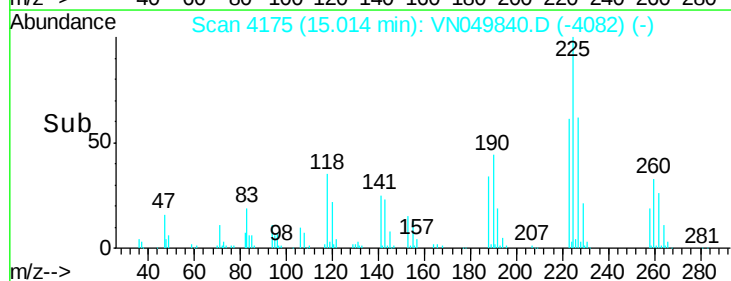
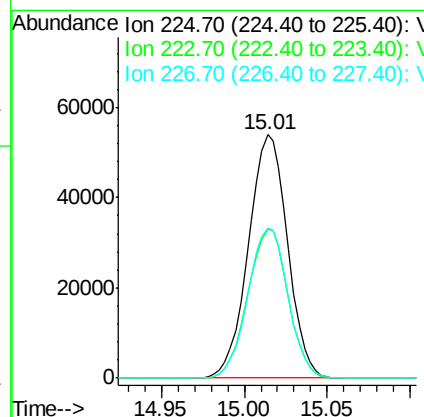
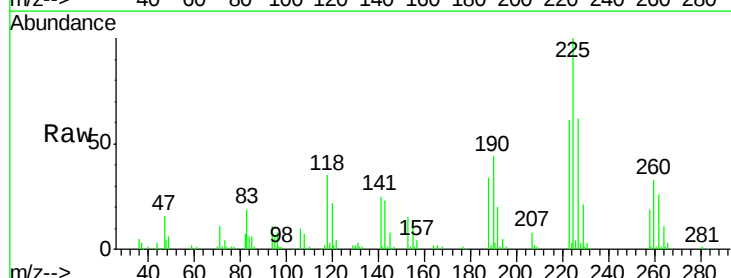
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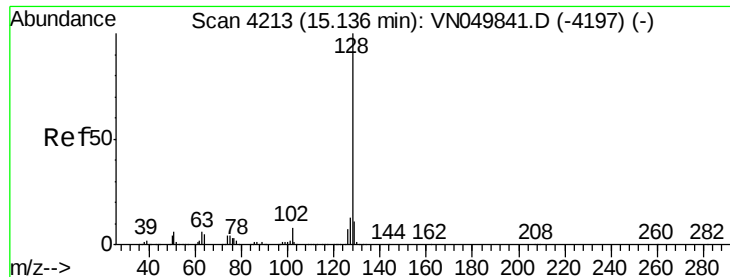
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#94
 Hexachlorobutadiene
 Concen: 18.46 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. -0.00 min
 Lab File: VN049840.D
 Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	30.9	92.7
227	63.2	31.8	95.4





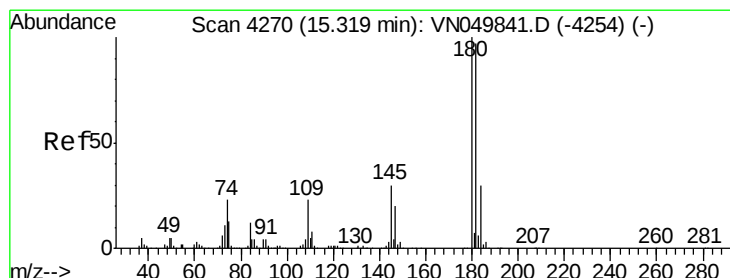
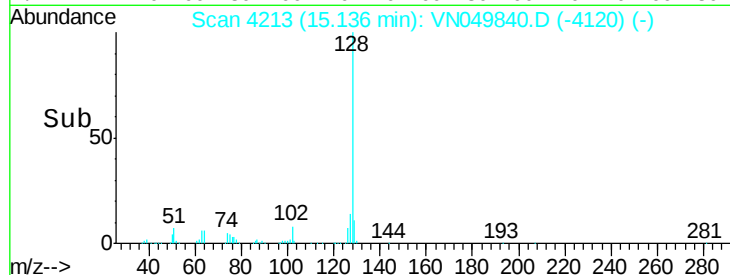
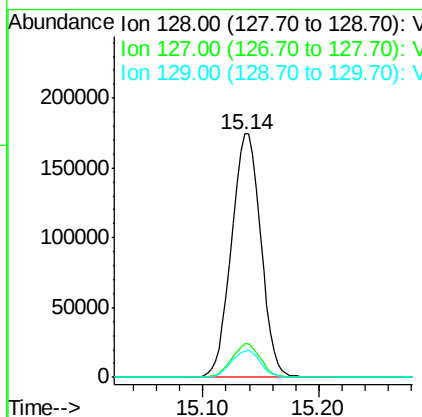
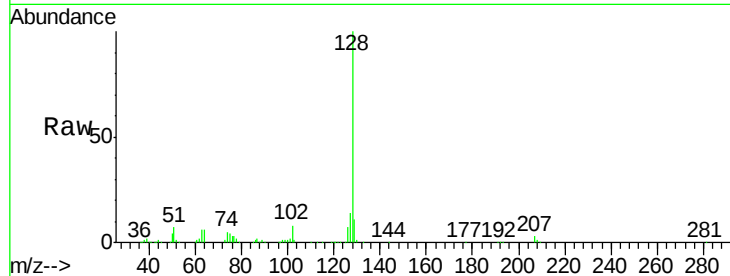
#95
Naphthalene
Concen: 15.66 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	11.1	8.6	13.0

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#96
1,2,3-Trichlorobenzene
Concen: 17.14 ug/l
RT: 15.32 min Scan# 4270
Delta R.T. -0.00 min
Lab File: VN049840.D
Acq: 17 Jul 2018 11:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.7	47.4	142.2
145	31.5	15.2	45.6

