

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071718\
 Data File : VN049839.D
 Acq On : 17 Jul 2018 11:03
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 7/18/2018 11:59:08 AM

Quant Time: Jul 17 12:57:36 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	527339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	819064	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	737289	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	347991	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	39639	5.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.62%	
35) Dibromofluoromethane	7.59	113	33835	4.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.92%	
50) Toluene-d8	10.09	98	117367	4.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.28%	
62) 4-Bromofluorobenzene	12.40	95	35731	4.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	35377	5.97	ug/l	96
3) Chloromethane	2.06	50	43770	5.65	ug/l	99
4) Vinyl Chloride	2.18	62	45306	5.56	ug/l	98
5) Bromomethane	2.55	94	27628	4.69	ug/l	93
6) Chloroethane	2.69	64	28988	5.76	ug/l	97
7) Trichlorofluoromethane	3.01	101	61205	5.79	ug/l	97
8) Diethyl Ether	3.41	74	19613	5.02	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	35442	5.41	ug/l	98
10) Methyl Iodide	3.95	142	39458	5.26	ug/l	99
11) Tert butyl alcohol	4.82	59	14886	20.08	ug/l	97
12) 1,1-Dichloroethene	3.73	96	31315	5.24	ug/l	97
13) Acrolein	3.61	56	13420	24.67	ug/l	97
14) Allyl chloride	4.32	41	47037	4.75	ug/l	97
15) Acrylonitrile	4.99	53	65578	23.61	ug/l	97
16) Acetone	3.83	43	53256	23.33	ug/l	100
17) Carbon Disulfide	4.04	76	94970	4.63	ug/l	96
18) Methyl Acetate	4.33	43	38616	4.67	ug/l #	77
19) Methyl tert-butyl Ether	5.05	73	80059	4.58	ug/l	97
20) Methylene Chloride	4.55	84	39969	5.46	ug/l	89
21) trans-1,2-Dichloroethene	5.04	96	33246	5.03	ug/l	93
22) Diisopropyl ether	5.96	45	93600	4.92	ug/l	95
23) Vinyl Acetate	5.90	43	328623	22.44	ug/l	100
24) 1,1-Dichloroethane	5.85	63	64860	5.47	ug/l	99
25) 2-Butanone	6.85	43	77677	22.33	ug/l	95
26) 2,2-Dichloropropane	6.82	77	48329	5.05	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	35168	4.91	ug/l	99
28) Bromochloromethane	7.19	49	27038	5.04	ug/l	100
29) Tetrahydrofuran	7.22	42	44866	19.94	ug/l	95
30) Chloroform	7.37	83	67037	5.49	ug/l	98
31) Cyclohexane	7.66	56	54690	4.65	ug/l #	83
32) 1,1,1-Trichloroethane	7.57	97	56460	5.44	ug/l	98
36) 1,1-Dichloropropene	7.79	75	45230	4.78	ug/l	99
37) Ethyl Acetate	6.94	43	35599	4.76	ug/l	98
38) Carbon Tetrachloride	7.77	117	50718	5.21	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	43812	4.39	ug/l	95
40) Benzene	8.04	78	141254	4.94	ug/l	99
41) Methacrylonitrile	7.17	41	15863m	4.45	ug/l	
42) 1,2-Dichloroethane	8.13	62	48331	5.13	ug/l	100
43) Isopropyl Acetate	8.17	43	58929	3.28	ug/l	99
44) Trichloroethene	8.84	130	38319	5.06	ug/l	98
45) 1,2-Dichloropropane	9.12	63	38152	5.17	ug/l	96
46) Dibromomethane	9.21	93	25030	5.10	ug/l	98
47) Bromodichloromethane	9.40	83	48971	5.02	ug/l	98
48) Methyl methacrylate	9.20	41	26373	4.15	ug/l	97
49) 1,4-Dioxane	9.20	88	8091	78.07	ug/l	89
51) 4-Methyl-2-Pentanone	9.99	43	162800	21.23	ug/l	97
52) Toluene	10.16	92	83951	4.88	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	45039	4.46	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	51129	4.64	ug/l	95
55) 1,1,2-Trichloroethane	10.56	97	34665	4.99	ug/l	94
56) Ethyl methacrylate	10.43	69	36374	3.97	ug/l	96
57) 1,3-Dichloropropane	10.71	76	55096	4.84	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	82841	19.38	ug/l	100
59) 2-Hexanone	10.76	43	106890	19.66	ug/l	93
60) Dibromochloromethane	10.90	129	37407	4.82	ug/l	98
61) 1,2-Dibromoethane	11.01	107	34139	4.93	ug/l	99
64) Tetrachloroethene	10.63	164	34007	5.00	ug/l	96
65) Chlorobenzene	11.44	112	94493	4.96	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	36804	5.19	ug/l	100
67) Ethyl Benzene	11.51	91	139382	4.47	ug/l	97
68) m/p-Xylenes	11.62	106	105154	8.84	ug/l	100
69) o-Xylene	11.95	106	50871	4.50	ug/l	95
70) Styrene	11.97	104	76385	4.13	ug/l	98
71) Bromoform	12.13	173	26907	4.78	ug/l #	97
73) Isopropylbenzene	12.25	105	132418	4.78	ug/l	99
74) N-amyl acetate	12.07	43	42008	4.33	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.51	83	47580	5.29	ug/l	99
76) 1,2,3-Trichloropropane	12.56	75	38352m	5.11	ug/l	
77) Bromobenzene	12.53	156	38031	5.05	ug/l	97
78) n-propylbenzene	12.59	91	144953	4.62	ug/l	98
79) 2-Chlorotoluene	12.68	91	94362	4.85	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	101763	4.64	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	10580	4.45	ug/l	93
82) 4-Chlorotoluene	12.78	91	89654	4.54	ug/l	96
83) tert-Butylbenzene	12.99	119	92009	4.74	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	104305	4.66	ug/l	100
85) sec-Butylbenzene	13.17	105	122608	4.75	ug/l	99
86) p-Isopropyltoluene	13.29	119	98117	4.46	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	65450	4.90	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	64862	4.78	ug/l	97
89) n-Butylbenzene	13.62	91	79355	4.28	ug/l	98
90) Hexachloroethane	13.88	117	24889	5.33	ug/l	99
91) 1,2-Dichlorobenzene	13.66	146	66148	5.02	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	7842	4.95	ug/l	96

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ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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QLast Update : Tue Jul 17 12:26:01 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	22570	3.37	ug/l	97
94) Hexachlorobutadiene	15.01	225	21934	5.34	ug/l	98
95) Naphthalene	15.14	128	48234	2.89	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	25538	3.63	ug/l	98

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

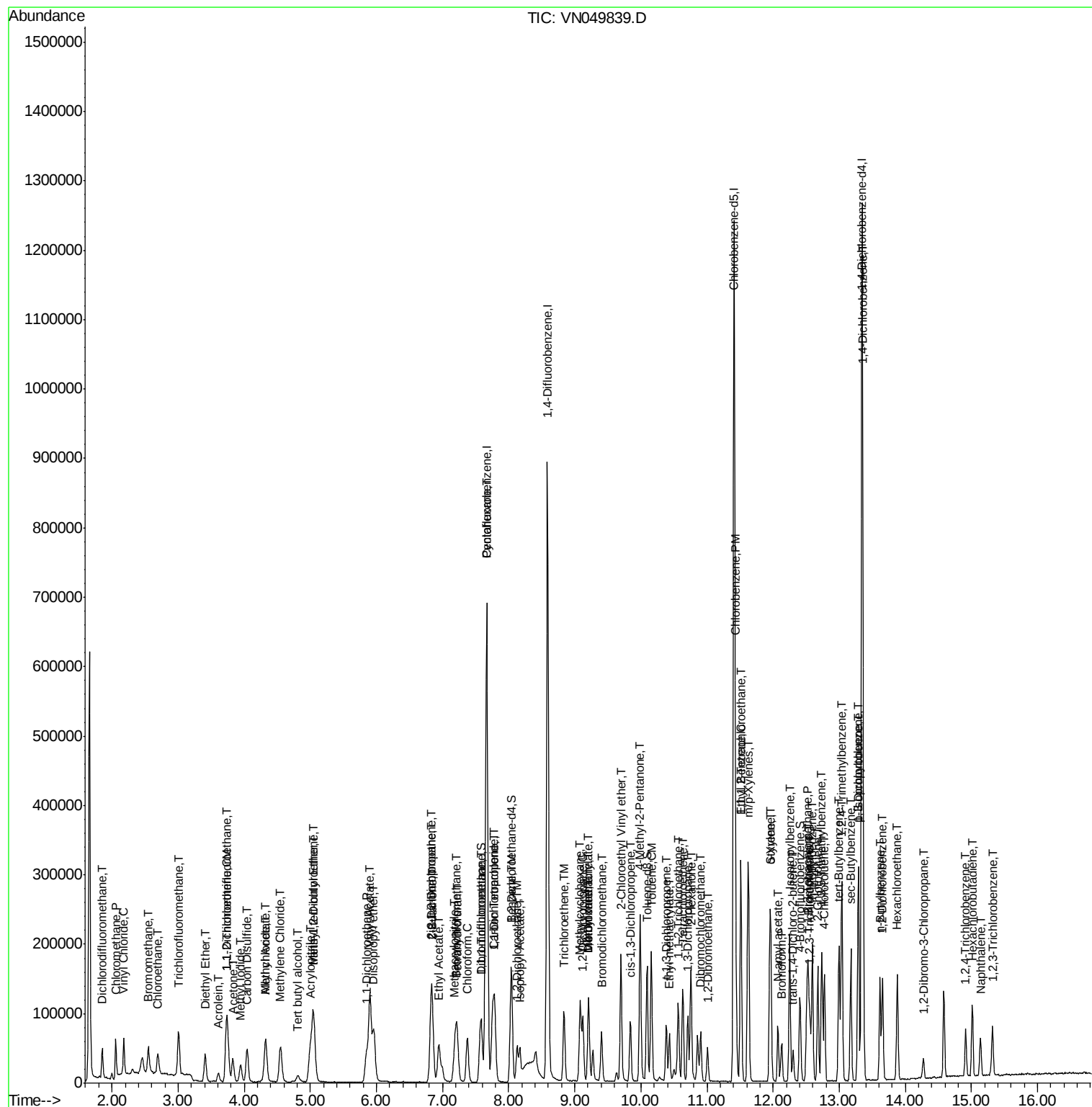
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071718\
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 Acq On : 17 Jul 2018 11:03
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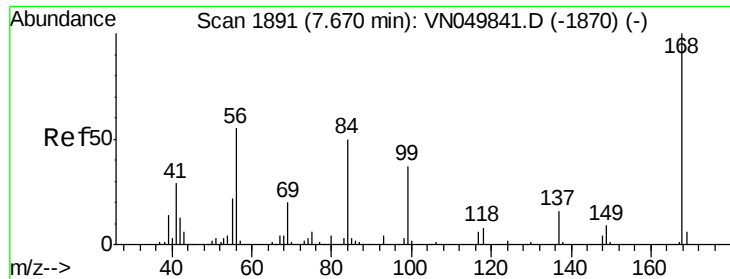
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 527339

Ion Ratio Lower Upper

168 100

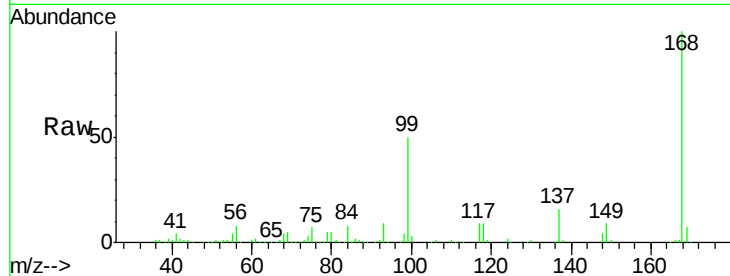
99 49.8 40.6 61.0

Manual Integrations

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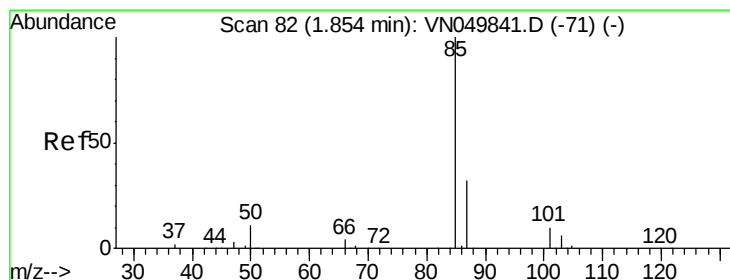
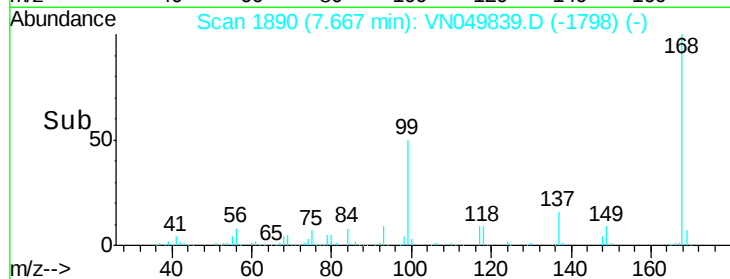
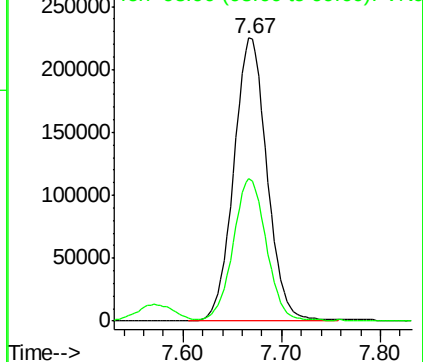
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 5.97 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049839.D

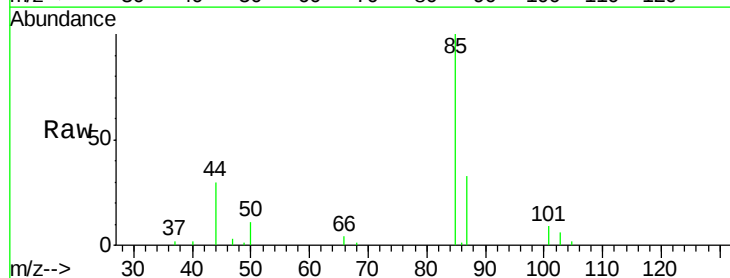
Acq: 17 Jul 2018 11:03

Tgt Ion: 85 Resp: 35377

Ion Ratio Lower Upper

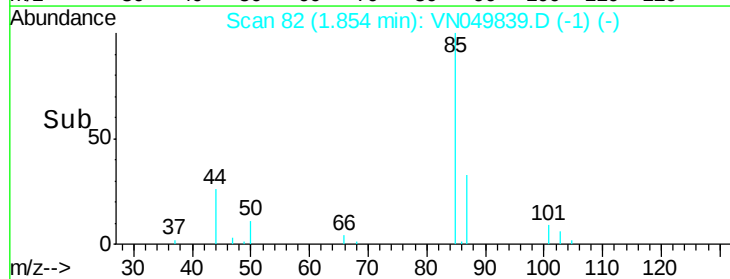
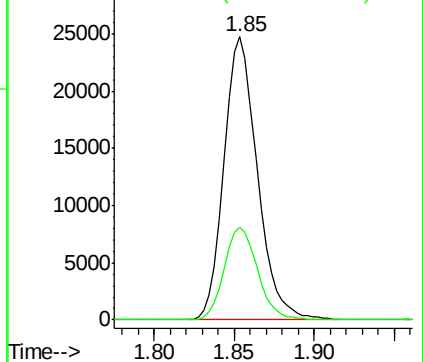
85 100

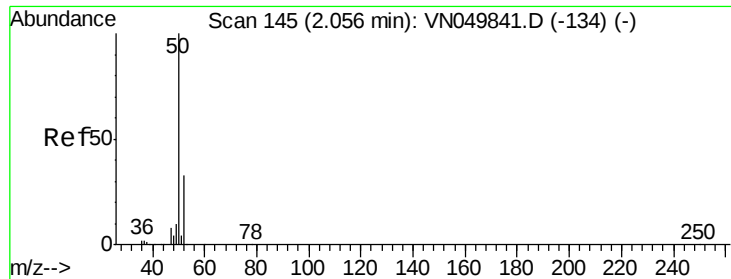
87 32.8 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 5.65 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 43770

Ion Ratio Lower Upper

50 100

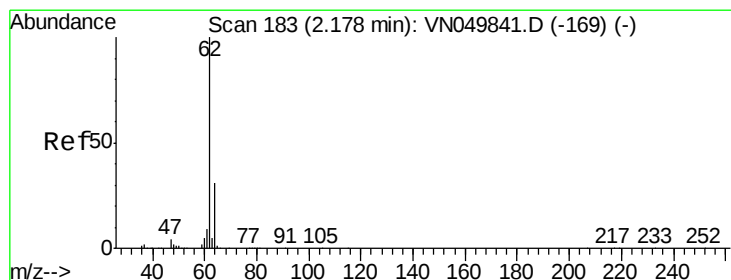
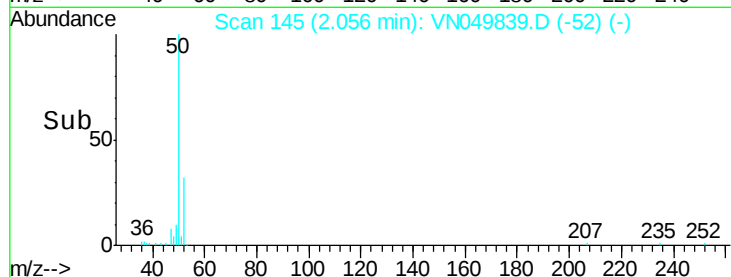
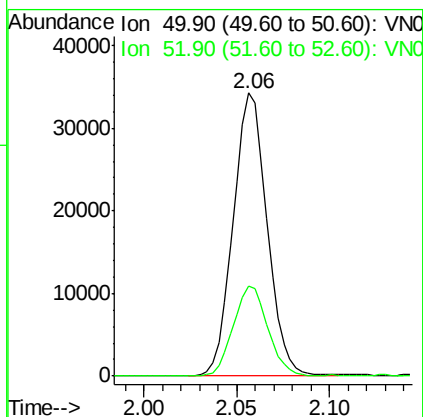
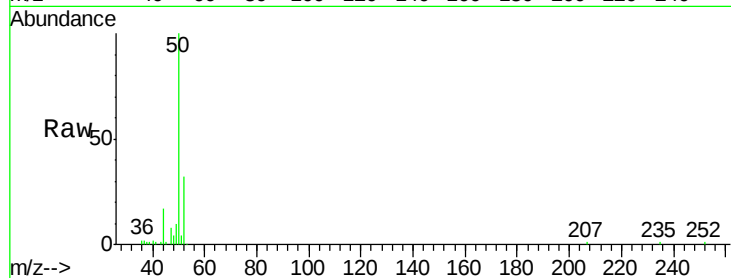
52 31.9 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 5.56 ug/l

RT: 2.18 min Scan# 183

Delta R.T. 0.00 min

Lab File: VN049839.D

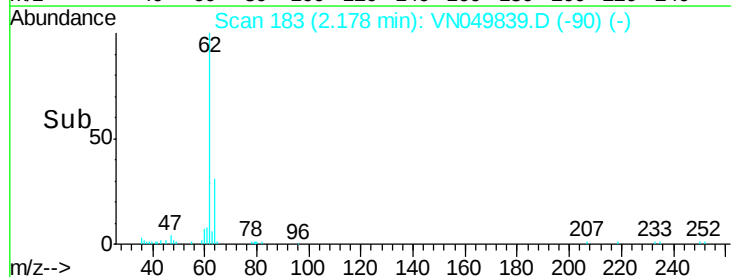
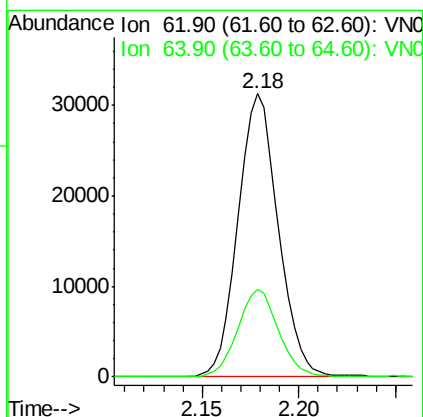
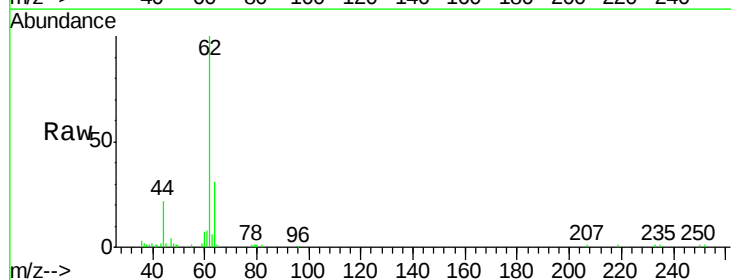
Acq: 17 Jul 2018 11:03

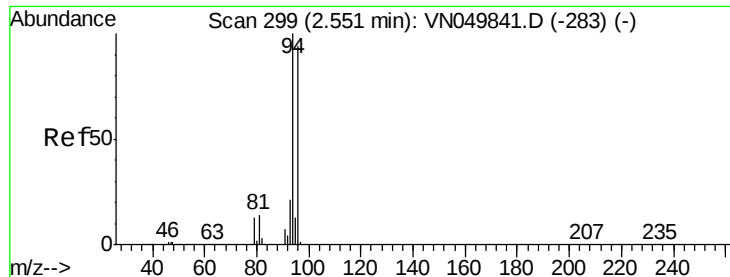
Tgt Ion: 62 Resp: 45306

Ion Ratio Lower Upper

62 100

64 30.8 25.4 38.0





#5

Bromomethane

Concen: 4.69 ug/l

RT: 2.55 min Scan# 298

Delta R.T. -0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 27628

Ion Ratio Lower Upper

94 100

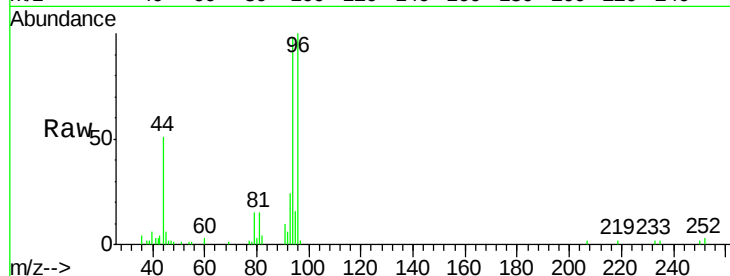
96 101.6 75.7 113.5

Manual Integrations

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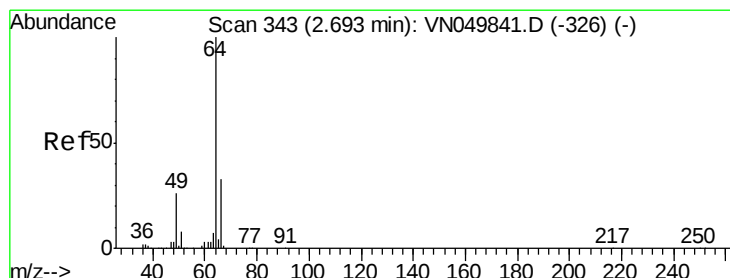
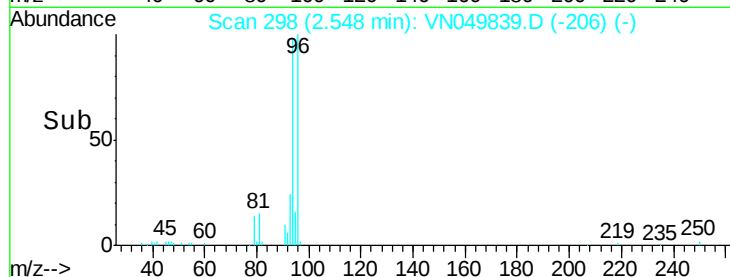
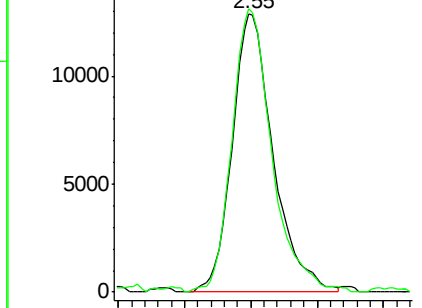
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Abundance Ion 93.90 (93.60 to 94.60): VN049839.D (-206) (-)

Ion 95.90 (95.60 to 96.60): VN049839.D (-206) (-)



#6

Chloroethane

Concen: 5.76 ug/l

RT: 2.69 min Scan# 343

Delta R.T. 0.00 min

Lab File: VN049839.D

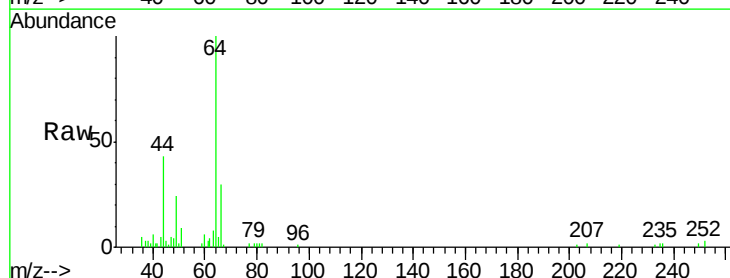
Acq: 17 Jul 2018 11:03

Tgt Ion: 64 Resp: 28988

Ion Ratio Lower Upper

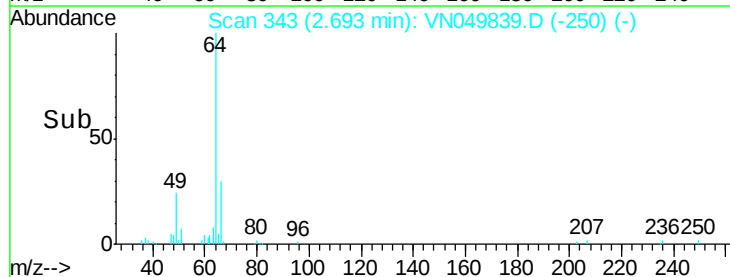
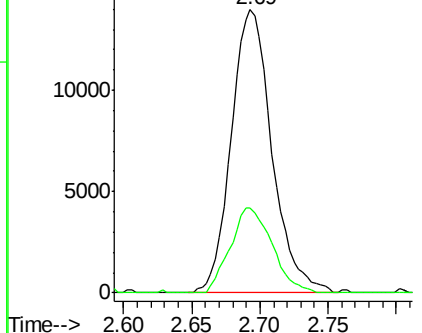
64 100

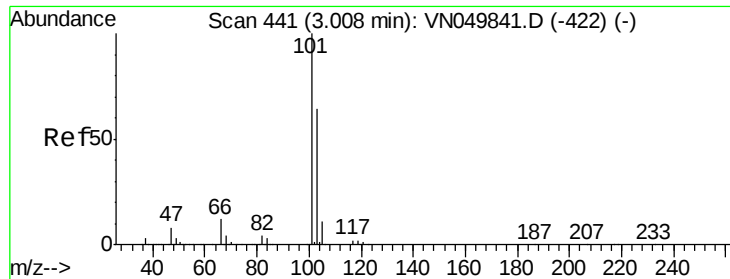
66 30.1 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN049839.D (-250) (-)

Ion 65.90 (65.60 to 66.60): VN049839.D (-250) (-)





#7

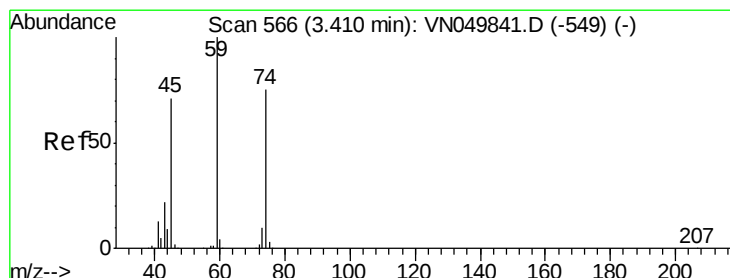
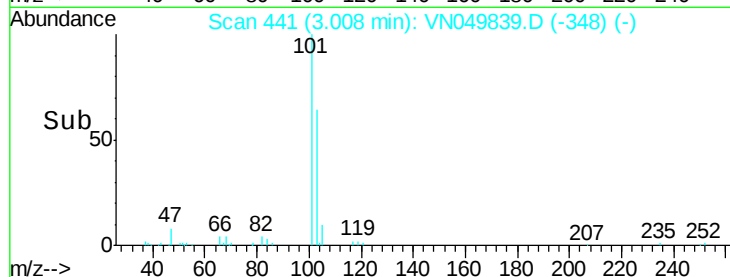
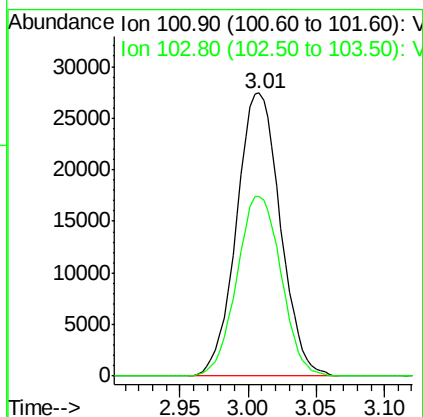
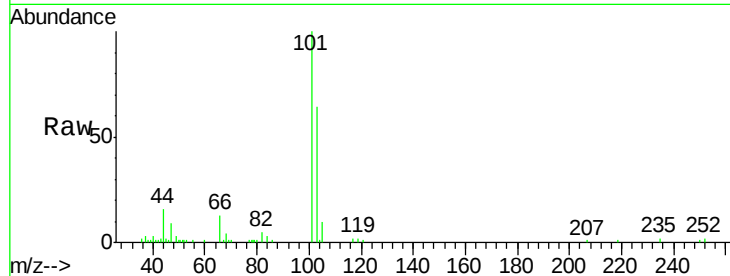
Trichlorofluoromethane
 Concen: 5.79 ug/l
 RT: 3.01 min Scan# 441
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	52.8	79.2

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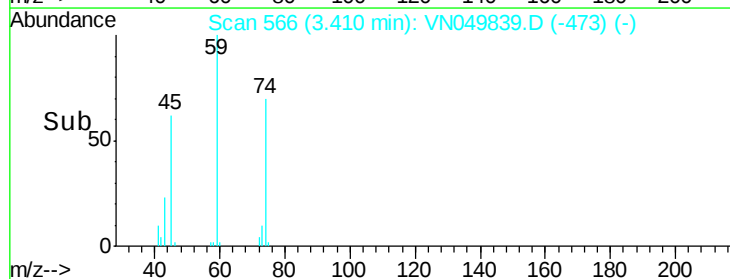
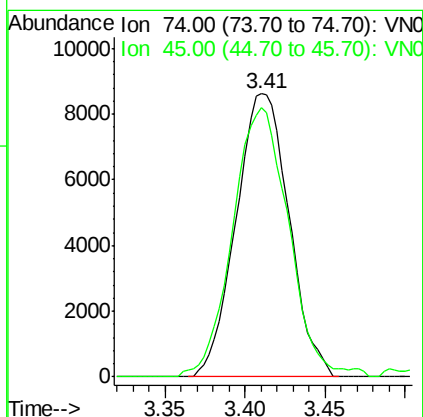
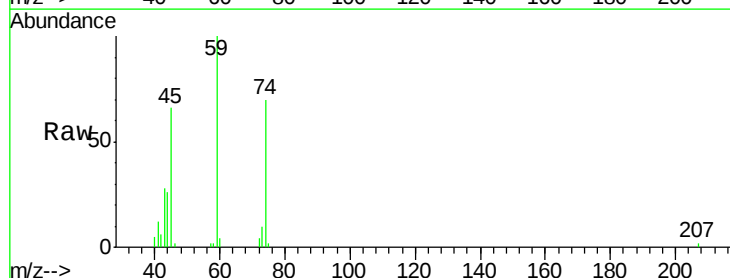
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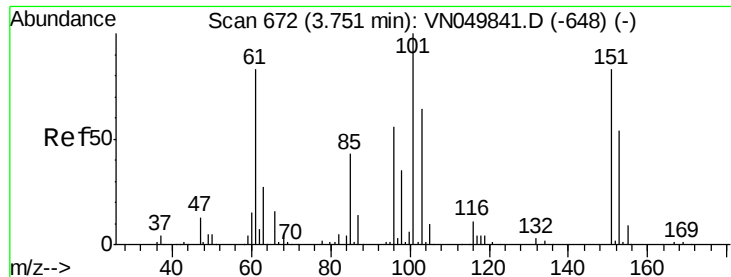


#8

Diethyl Ether
 Concen: 5.02 ug/l
 RT: 3.41 min Scan# 566
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.6	48.4	145.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.41 ug/l

RT: 3.75 min Scan# 671

Delta R.T. -0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

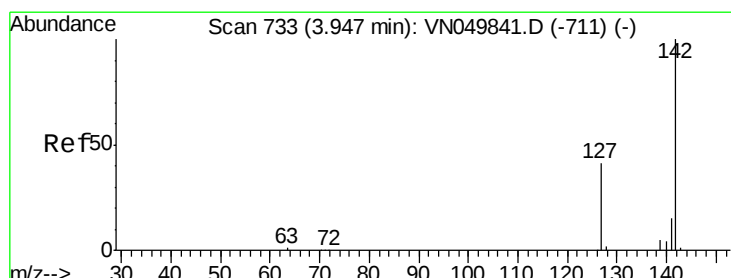
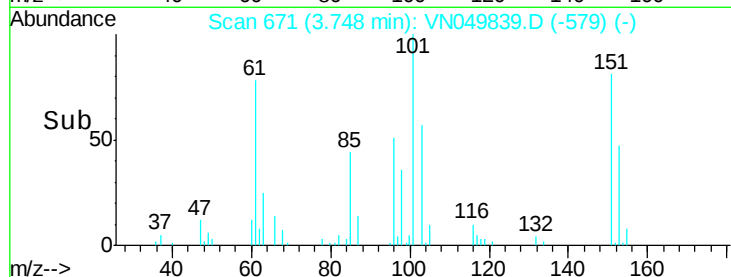
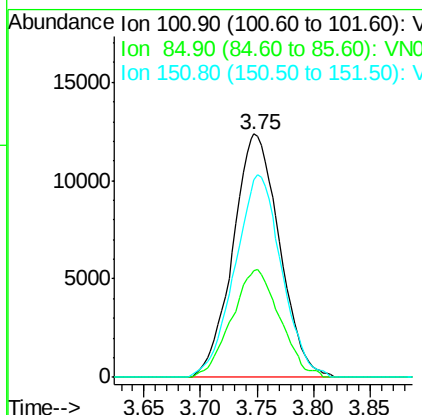
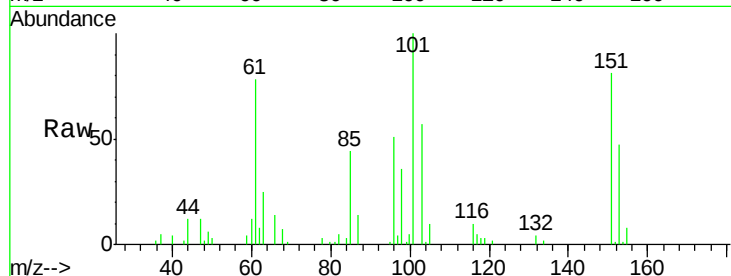
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	35442
Ion Ratio	Lower	Upper	
101	100		
85	45.8	34.4	51.6
151	83.7	66.2	99.4

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#10

Methyl Iodide

Concen: 5.26 ug/l

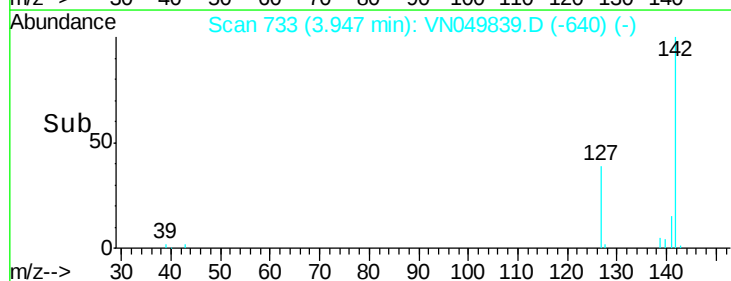
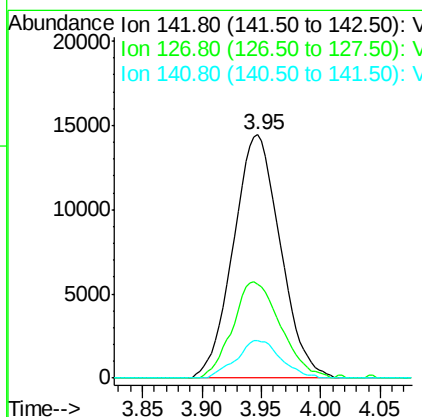
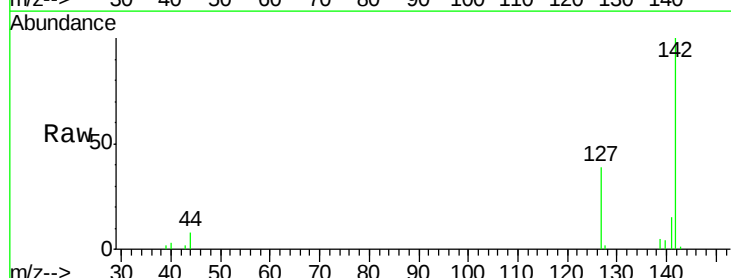
RT: 3.95 min Scan# 733

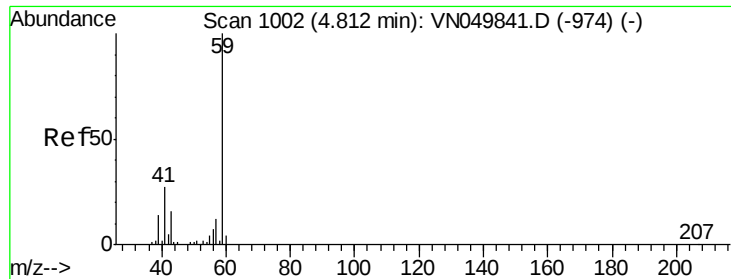
Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Tgt Ion:	142	Resp:	39458
Ion Ratio	Lower	Upper	
142	100		
127	40.3	32.5	48.7
141	14.7	11.1	16.7





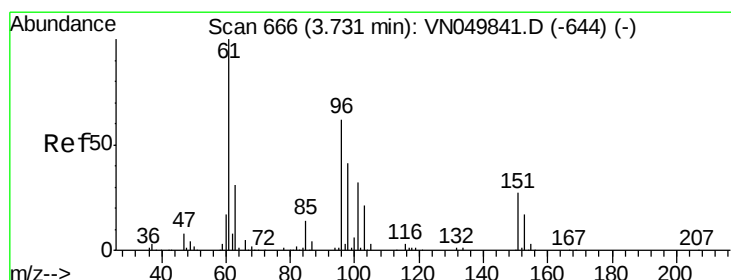
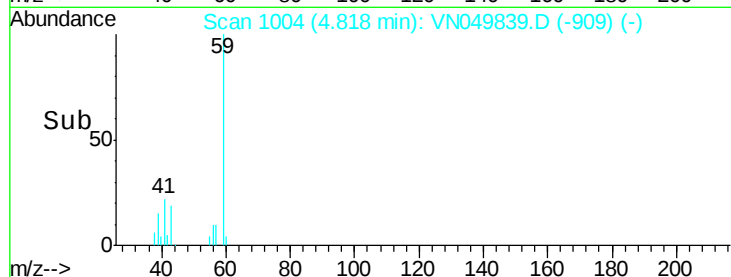
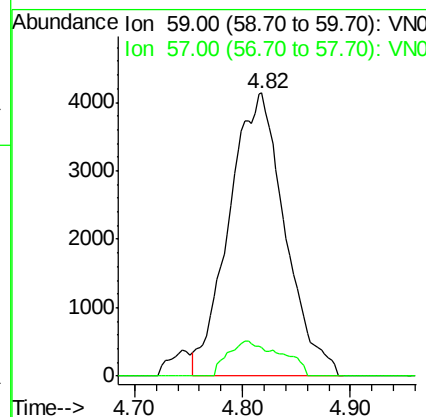
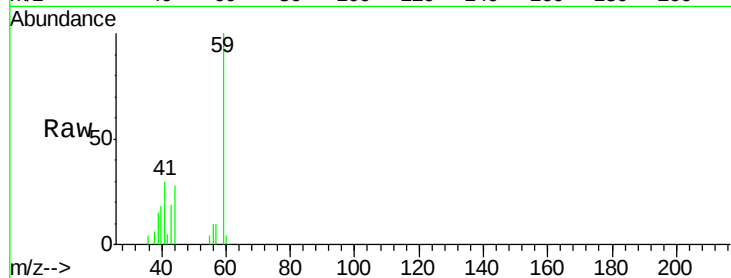
#11
Tert butyl alcohol
Concen: 20.08 ug/l
RT: 4.82 min Scan# 1004
Delta R.T. 0.01 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 59 Resp: 14886
Ion Ratio Lower Upper
59 100
57 11.8 8.5 12.7

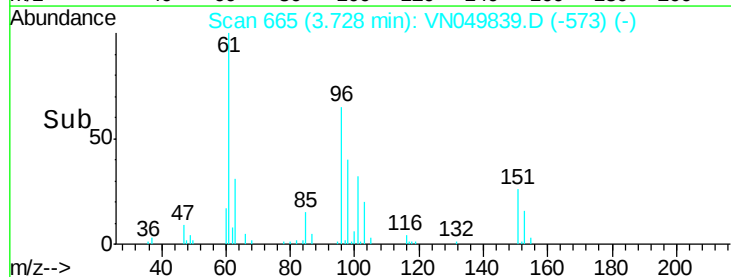
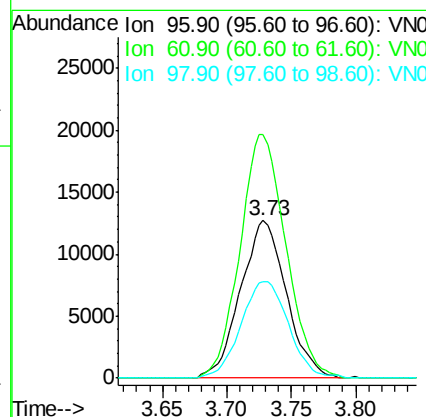
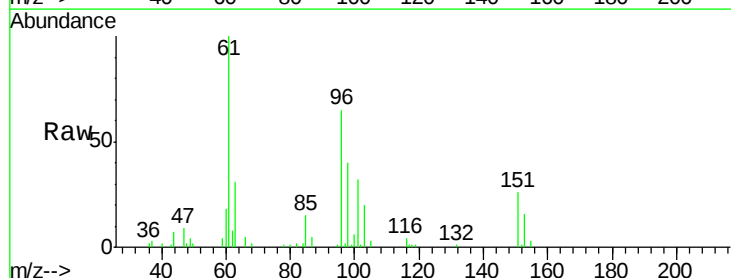
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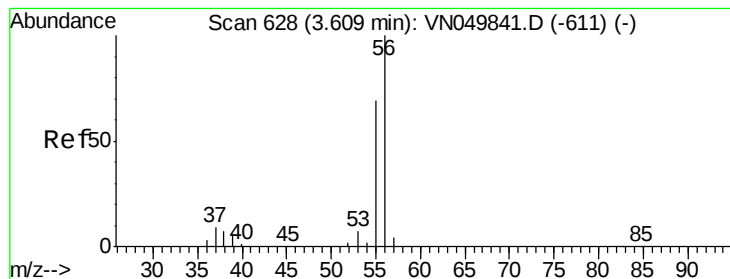
MMDadoda
7/18/2018 11:59:08 AM



#12
1,1-Dichloroethene
Concen: 5.24 ug/l
RT: 3.73 min Scan# 665
Delta R.T. -0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion: 96 Resp: 31315
Ion Ratio Lower Upper
96 100
61 154.8 126.5 189.7
98 61.7 51.0 76.6





#13

Acrolein

Concen: 24.67 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 13420

Ion Ratio Lower Upper

56 100

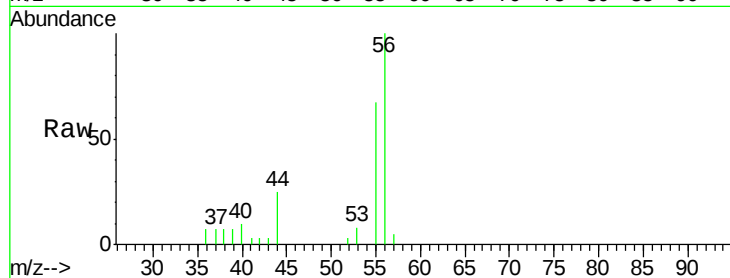
55 72.7 55.8 83.8

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VN049839.D (-535) (-)

Ion 55.00 (54.70 to 55.70): VN049839.D (-535) (-)

3.61

6000

5000

4000

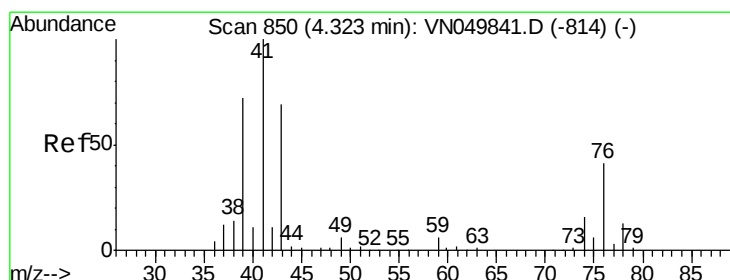
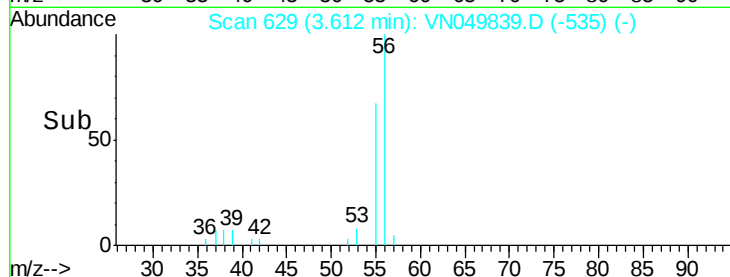
3000

2000

1000

0

Time-->



#14

Allyl chloride

Concen: 4.75 ug/l

RT: 4.32 min Scan# 849

Delta R.T. -0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

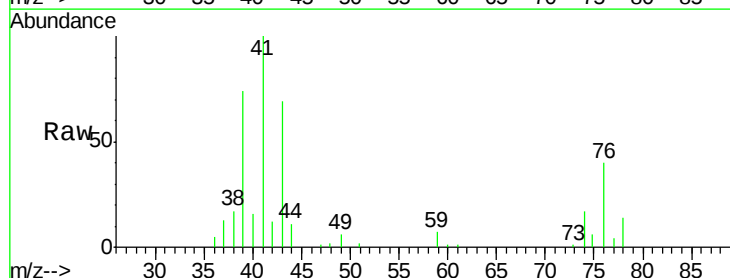
Tgt Ion: 41 Resp: 47037

Ion Ratio Lower Upper

41 100

39 69.5 53.2 79.8

76 35.8 29.0 43.6



Abundance Ion 41.00 (40.70 to 41.70): VN049839.D (-757) (-)

Ion 39.00 (38.70 to 39.70): VN049839.D (-757) (-)

Ion 75.90 (75.60 to 76.60): VN049839.D (-757) (-)

4.32

20000

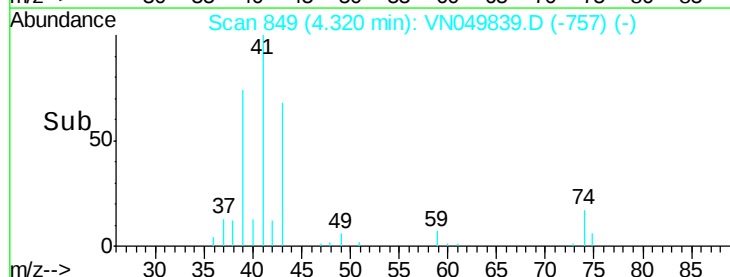
15000

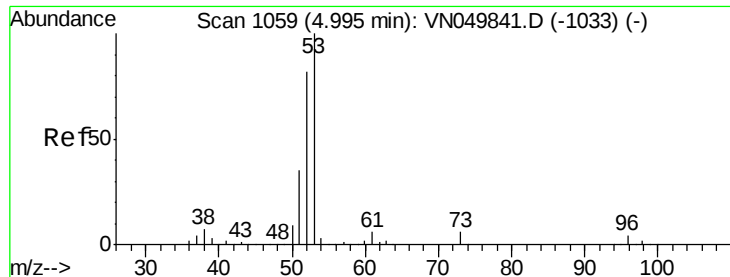
10000

5000

0

Time-->





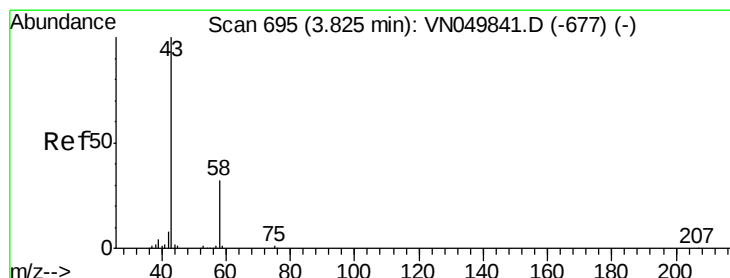
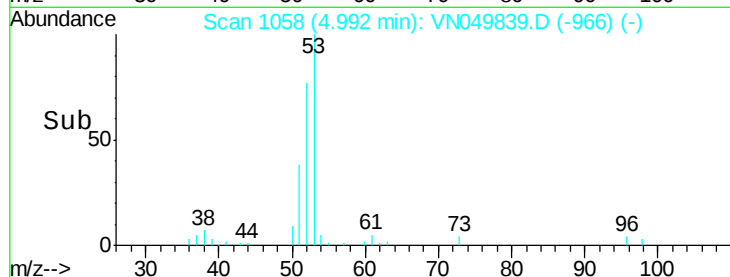
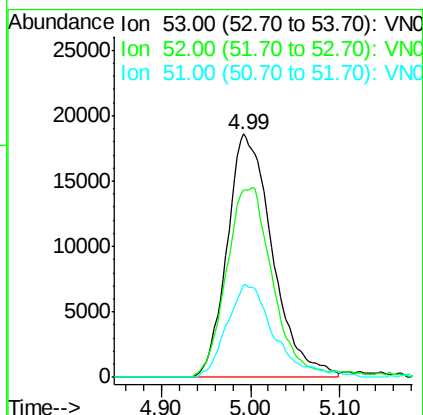
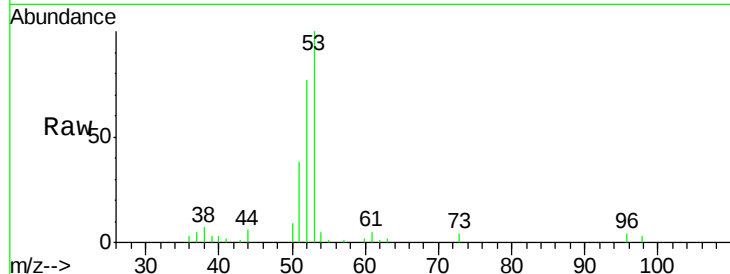
#15
Acrylonitrile
Concen: 23.61 ug/l
RT: 4.99 min Scan# 1058
Delta R.T. -0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
53	100		
52	79.0	64.8	97.2
51	39.2	28.9	43.3

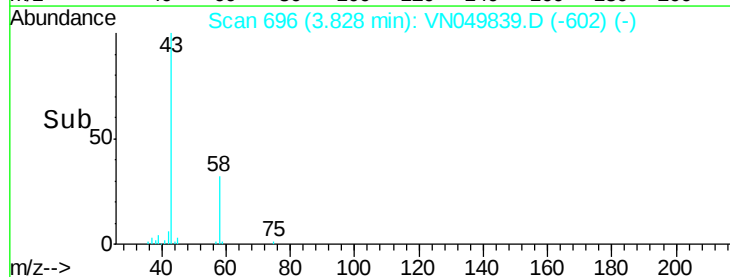
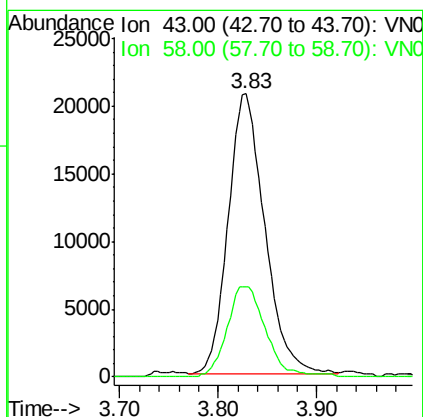
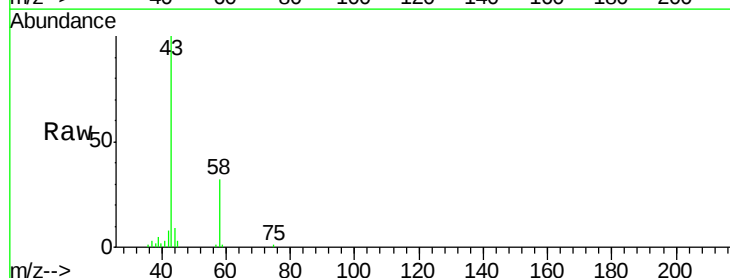
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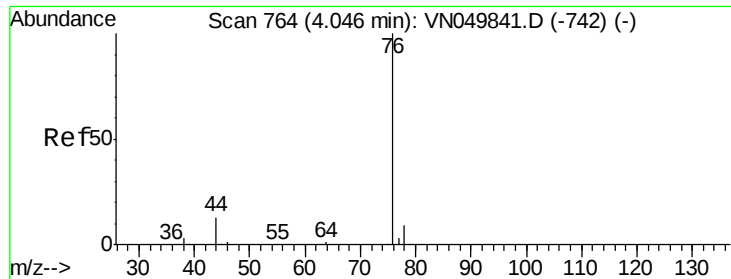
MMDadoda
7/18/2018 11:59:08 AM



#16
Acetone
Concen: 23.33 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.3	25.9	38.9





#17

Carbon Disulfide

Concen: 4.63 ug/l

RT: 4.04 min Scan# 763

Delta R.T. -0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 94970

Ion Ratio Lower Upper

76 100

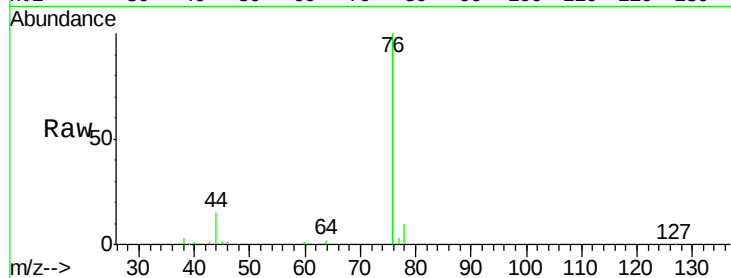
78 10.4 7.1 10.7

Manual Integrations

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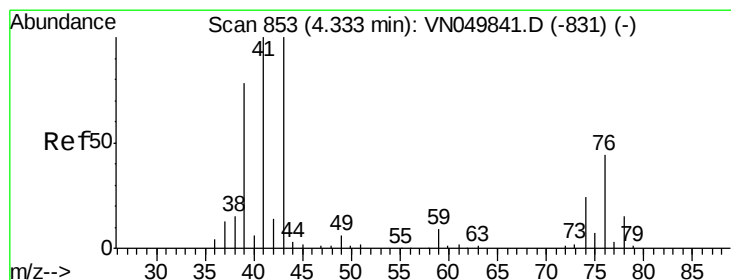
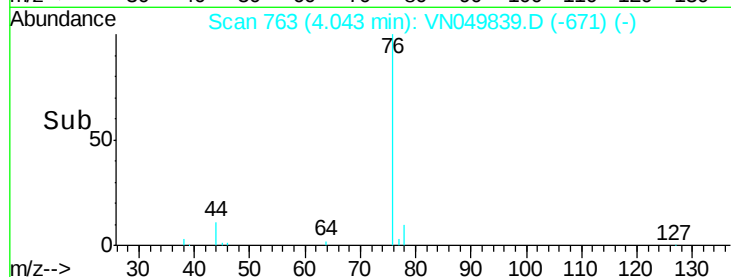
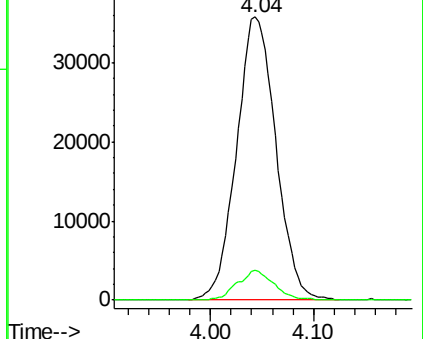
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 4.67 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN049839.D

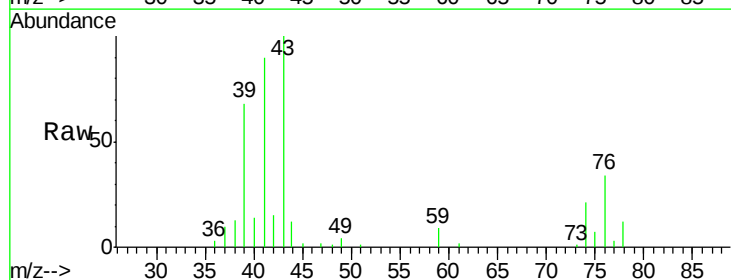
Acq: 17 Jul 2018 11:03

Tgt Ion: 43 Resp: 38616

Ion Ratio Lower Upper

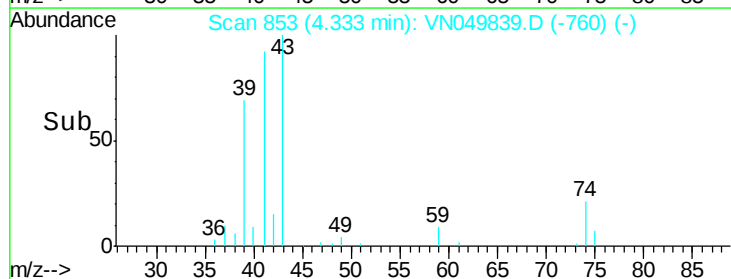
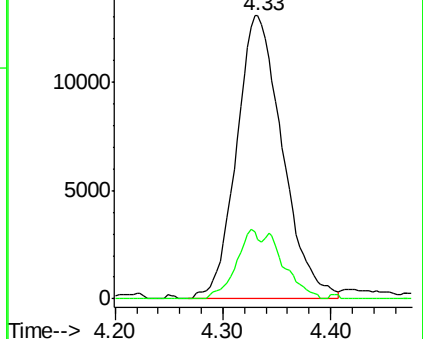
43 100

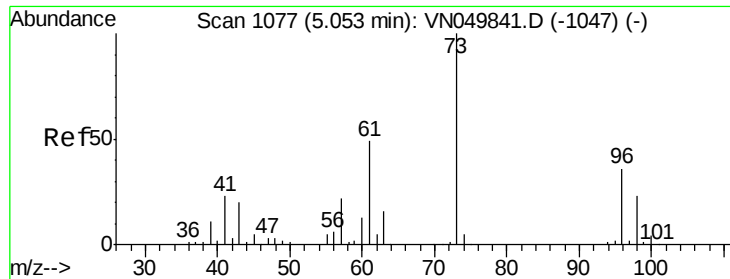
74 13.1 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





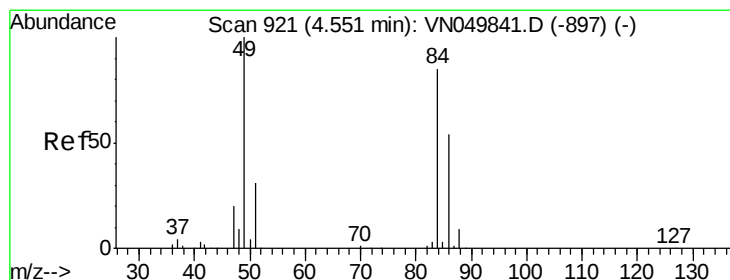
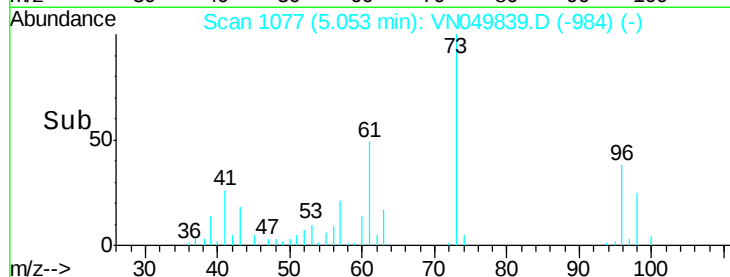
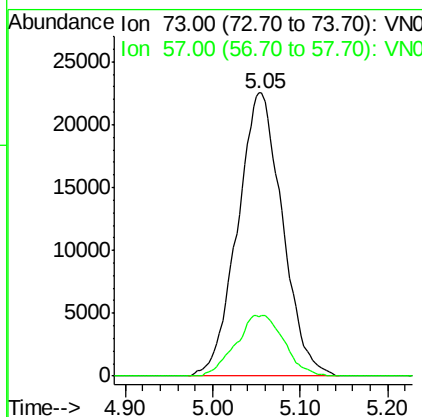
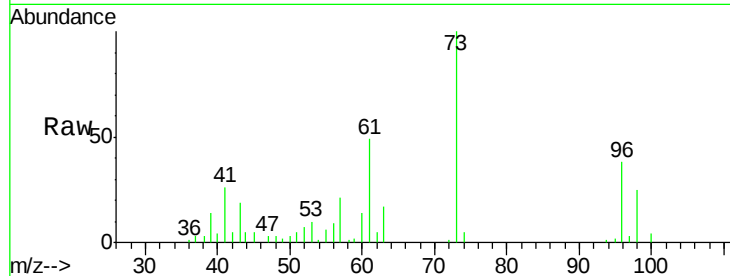
#19
Methvl tert-butvl Ether
Concen: 4.58 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 80059
Ion Ratio Lower Upper
73 100
57 21.0 18.1 27.1

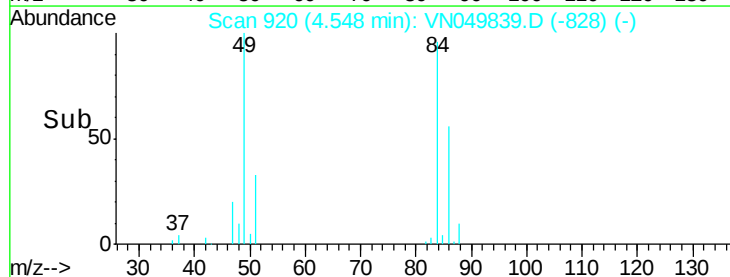
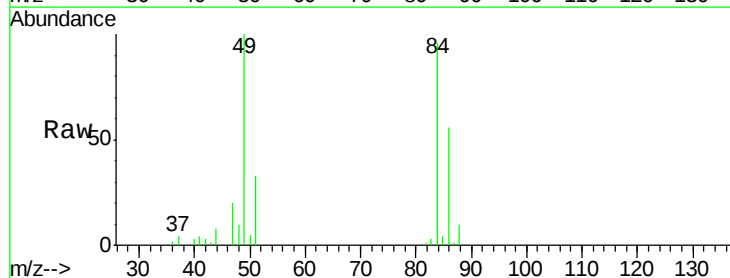
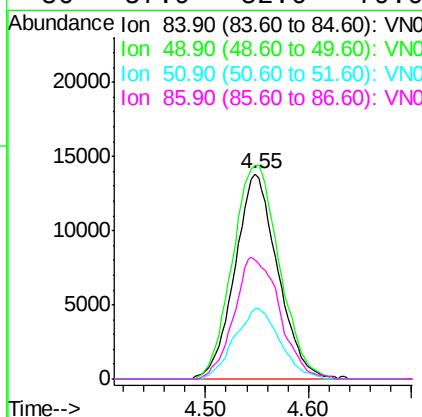
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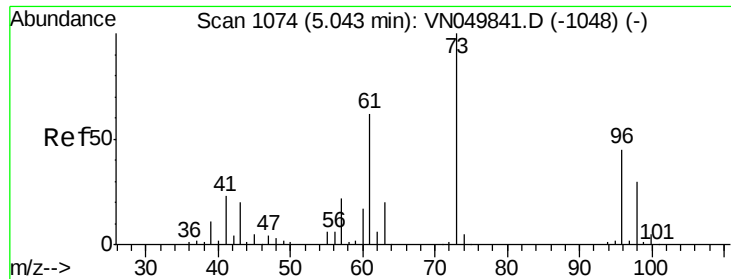
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#20
Methylene Chloride
Concen: 5.46 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion: 84 Resp: 39969
Ion Ratio Lower Upper
84 100
49 104.0 95.4 143.2
51 34.6 28.4 42.6
86 57.9 52.6 79.0





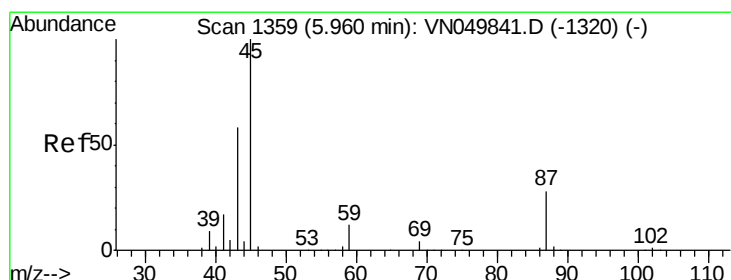
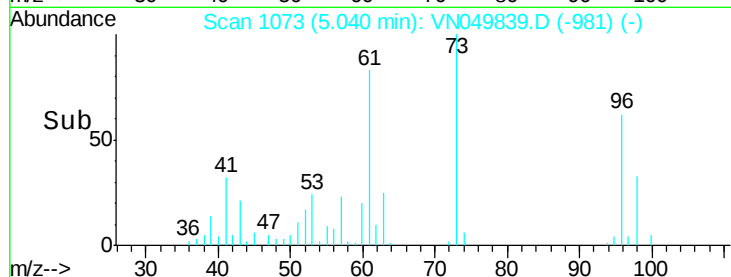
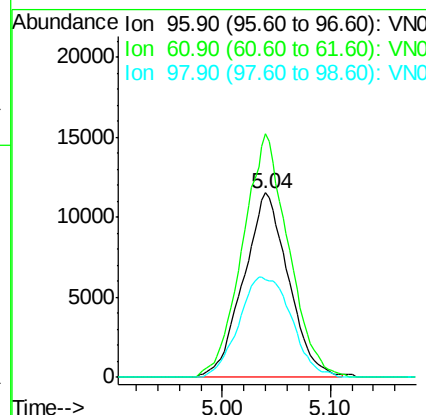
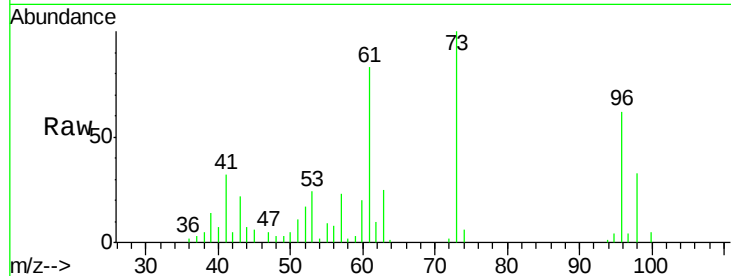
#21
trans-1,2-Dichloroethene
Concen: 5.03 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.2	109.0	163.6
98	53.2	51.1	76.7

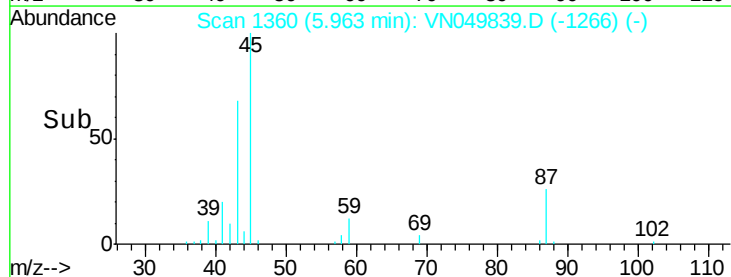
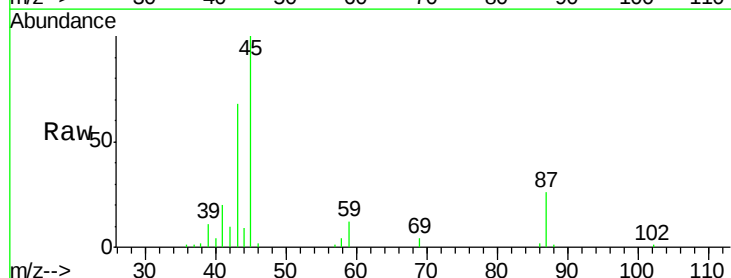
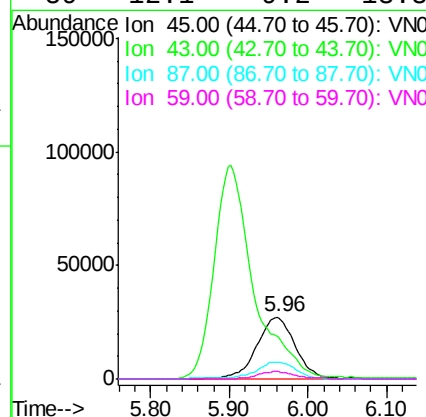
Manual Integrations
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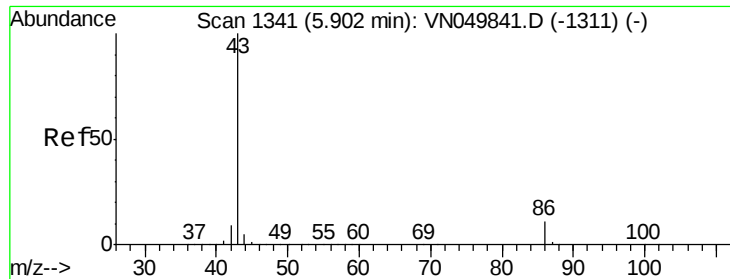
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#22
Diisopropyl ether
Concen: 4.92 ug/l
RT: 5.96 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.4	48.1	72.1
87	26.4	22.6	34.0
59	12.1	9.2	13.8





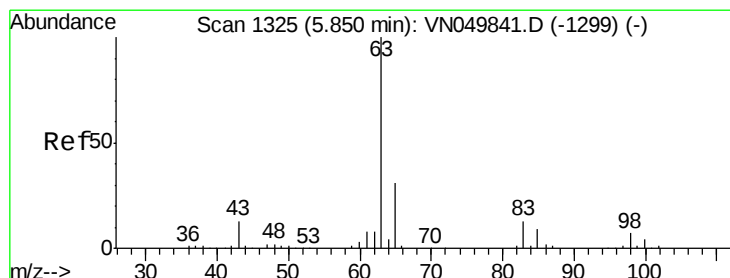
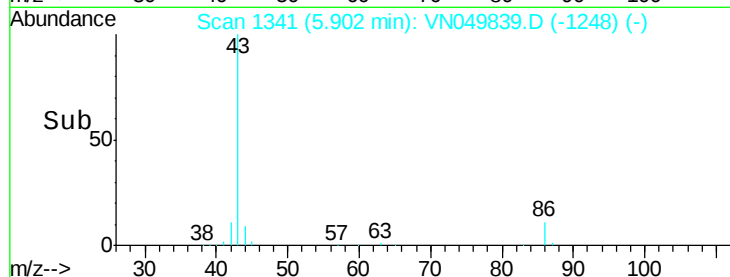
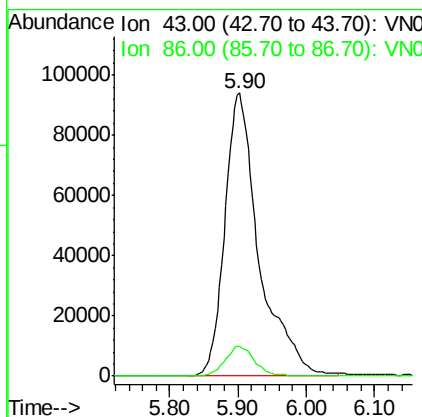
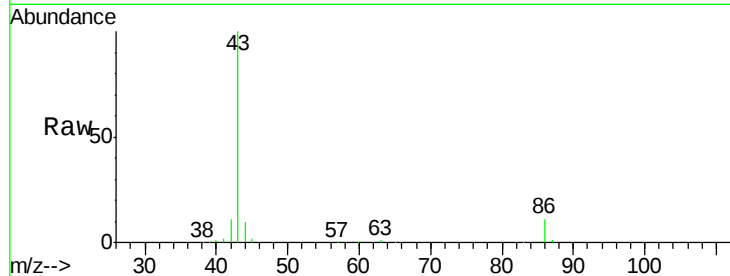
#23
 Vinyl Acetate
 Concen: 22.44 ug/l
 RT: 5.90 min Scan# 1341
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	43	Resp	328623
Ion Ratio	100	Lower	Upper
43	100		
86	10.6	8.4	12.6

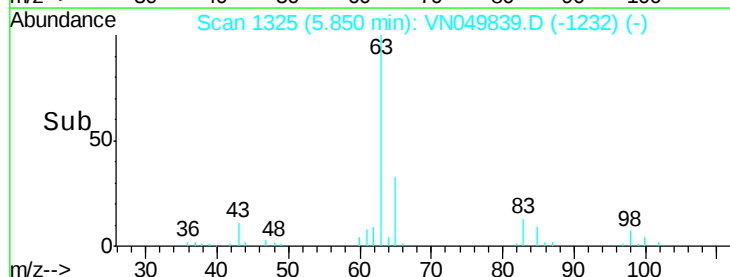
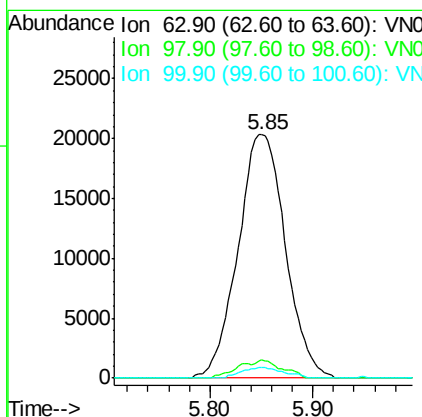
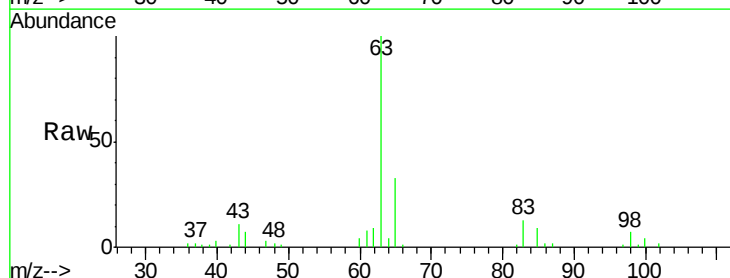
Manual Integrations
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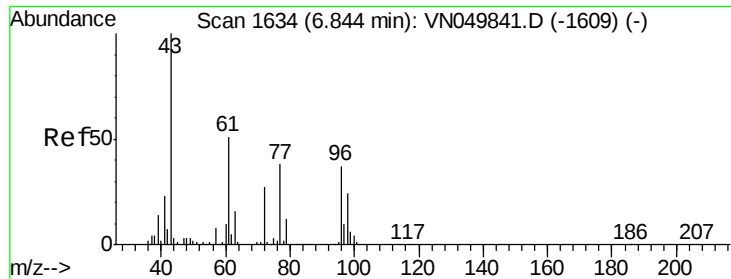
MMDadoda
 7/18/2018 11:59:08 AM



#24
 1,1-Dichloroethane
 Concen: 5.47 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Tgt Ion	63	Resp	64860
Ion Ratio	100	Lower	Upper
63	100		
98	7.3	3.4	10.2
100	4.4	2.2	6.6





#25

2-Butanone

Concen: 22.33 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 77677

Ion Ratio Lower Upper

43 100

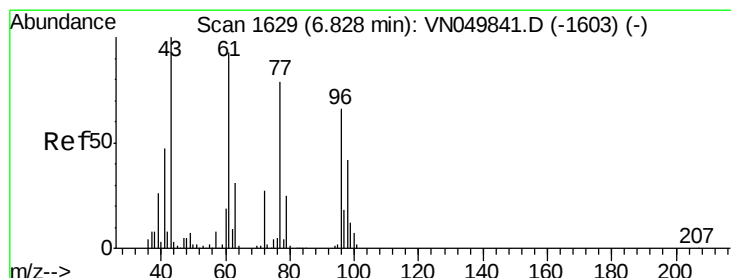
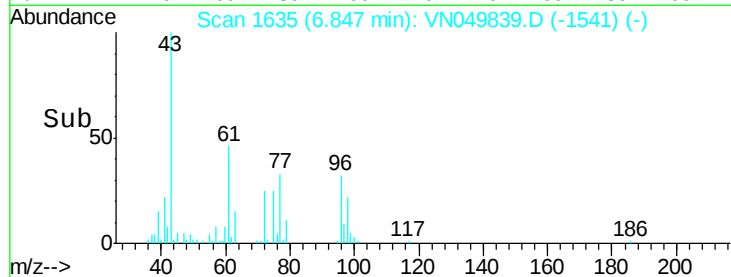
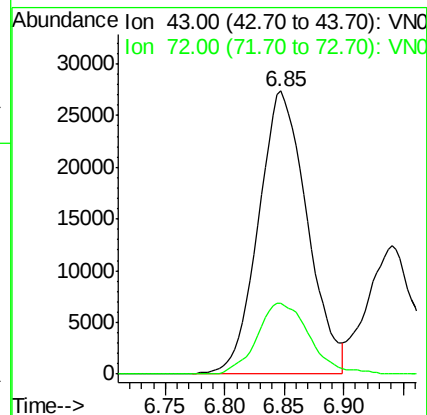
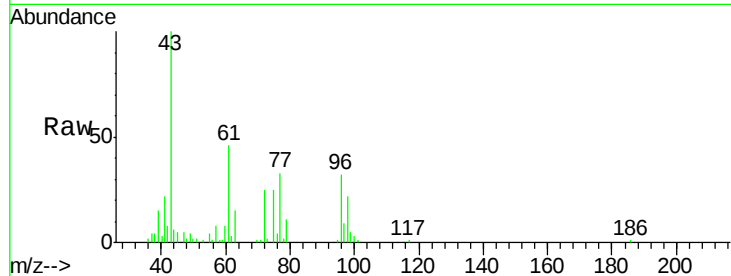
72 24.8 22.1 33.1

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#26

2,2-Dichloropropane

Concen: 5.05 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN049839.D

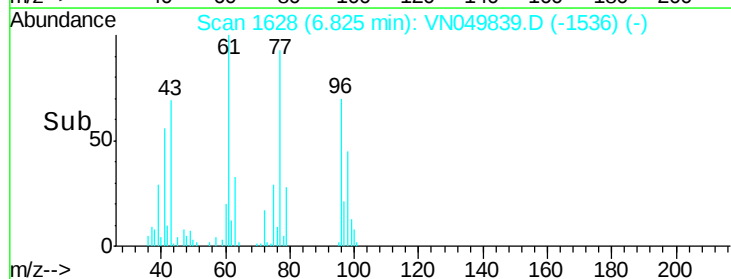
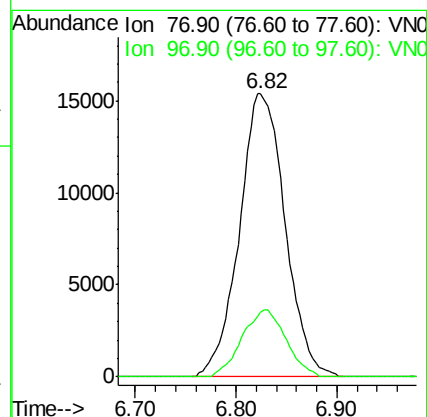
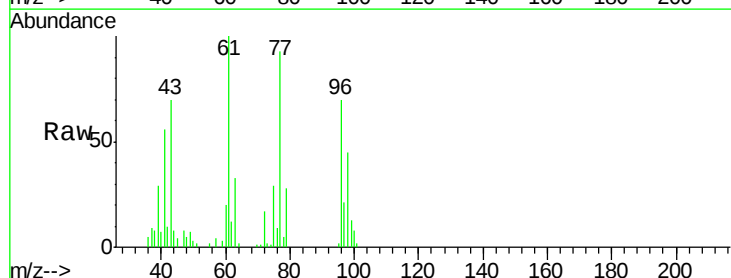
Acq: 17 Jul 2018 11:03

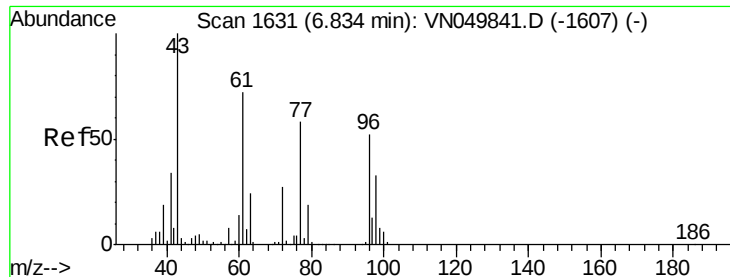
Tgt Ion: 77 Resp: 48329

Ion Ratio Lower Upper

77 100

97 22.9 11.9 35.5





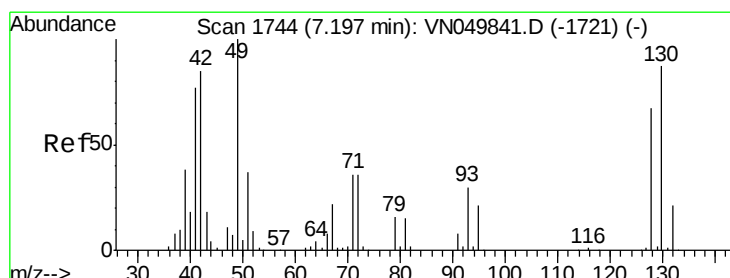
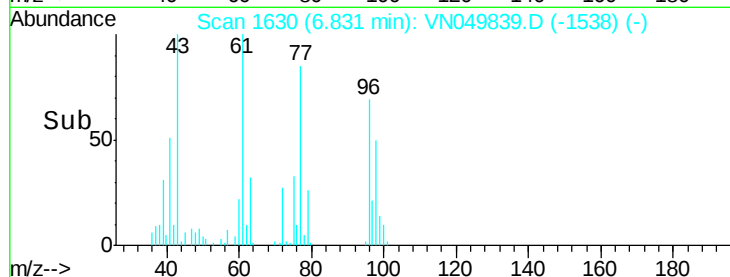
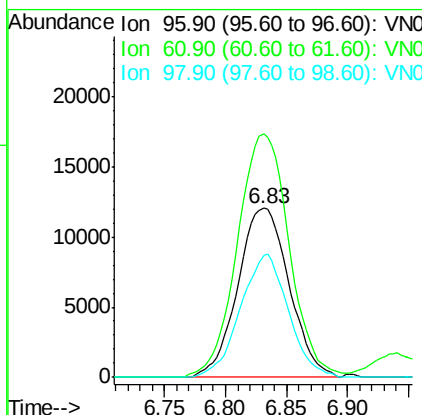
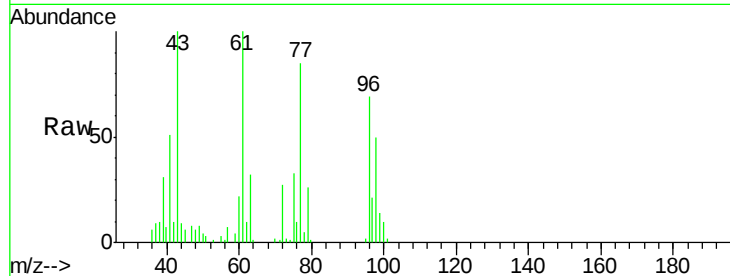
#27
 cis-1,2-Dichloroethene
 Concen: 4.91 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.2	0.0	289.0
98	67.7	0.0	130.2

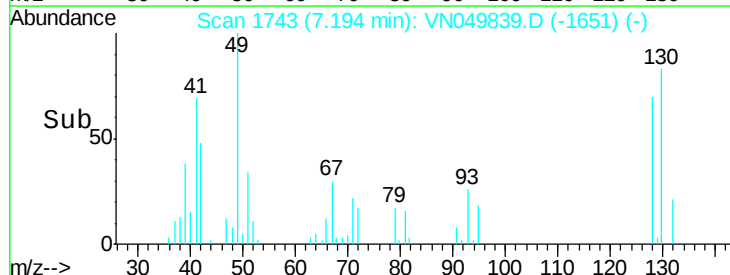
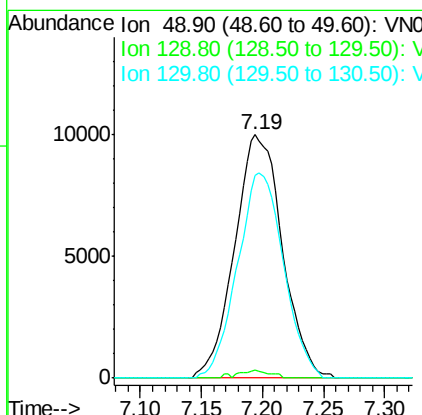
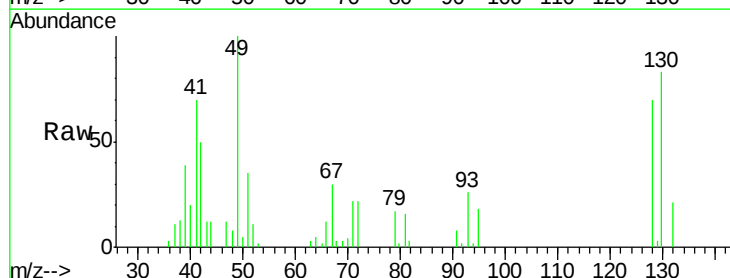
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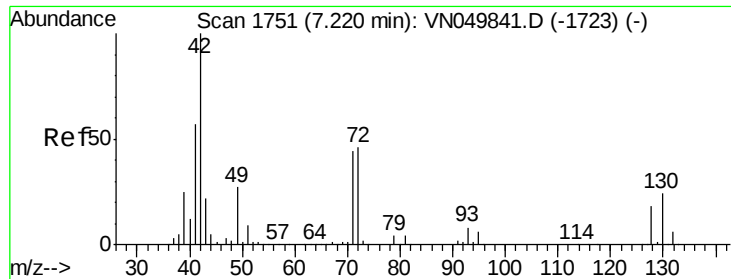
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#28
 Bromochloromethane
 Concen: 5.04 ug/l
 RT: 7.19 min Scan# 1743
 Delta R.T. -0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.2
130	81.6	65.5	98.3





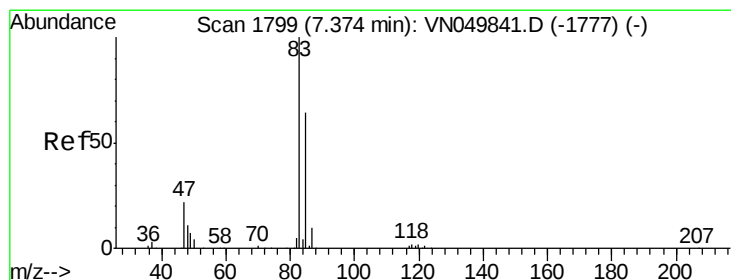
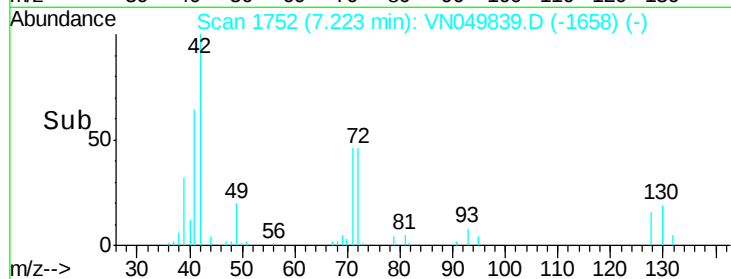
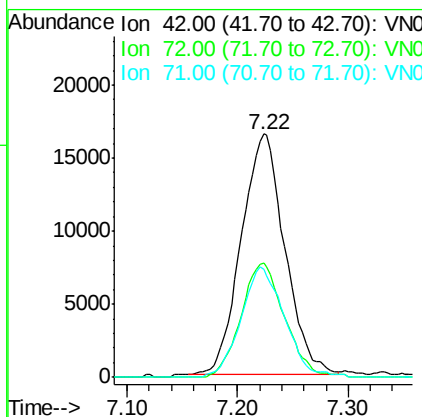
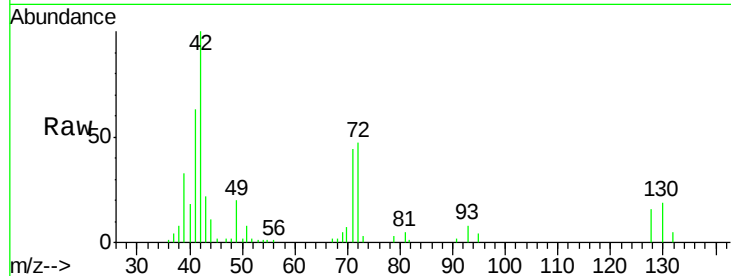
#29
Tetrahydrofuran
Concen: 19.94 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.7	35.6	53.4
71	46.0	34.0	51.0

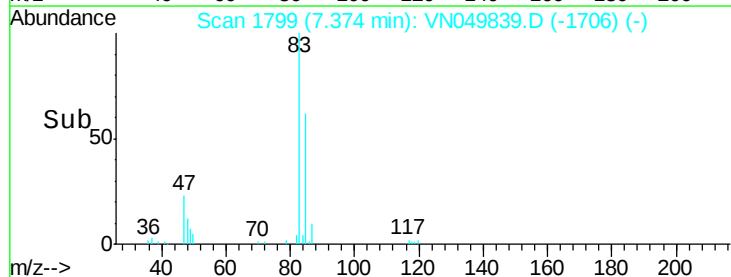
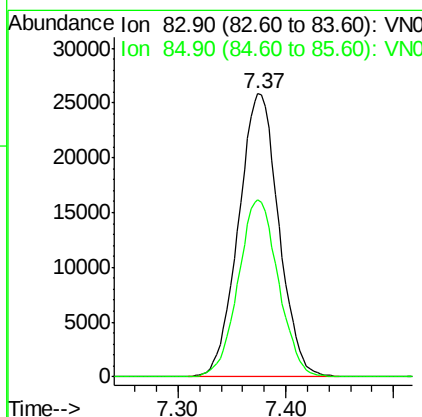
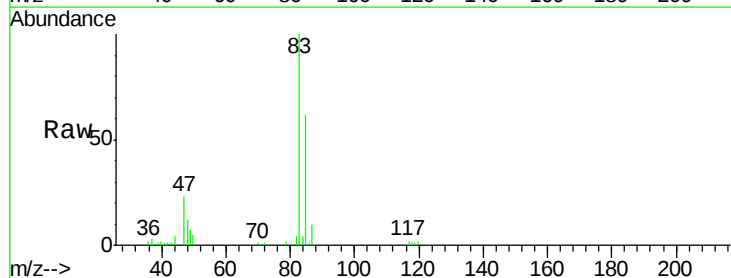
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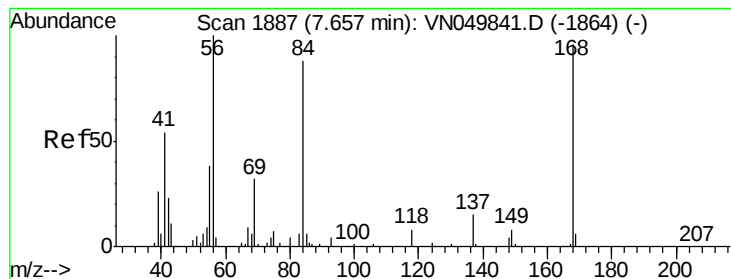
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#30
Chloroform
Concen: 5.49 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.4	77.2





#31

Cyclohexane

Concen: 4.65 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 54690

Ion Ratio Lower Upper

56 100

69 54.7 26.6 40.0#

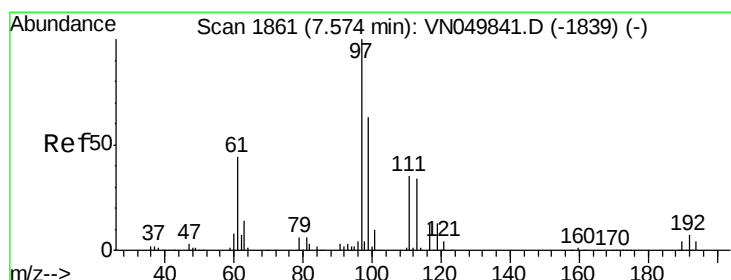
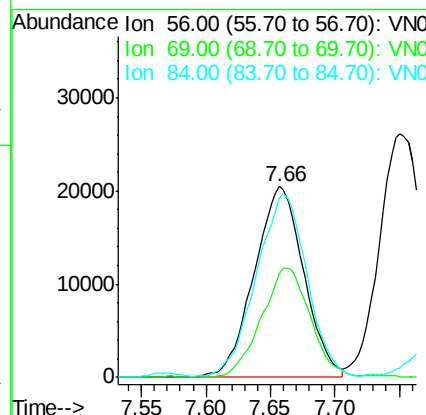
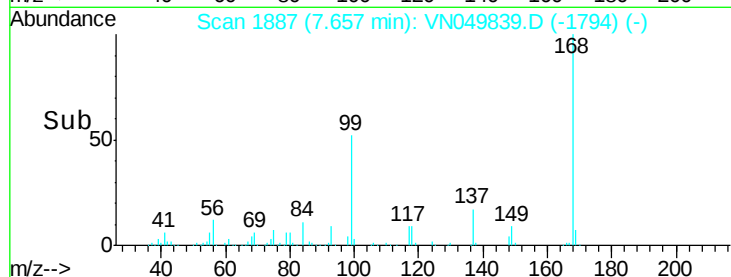
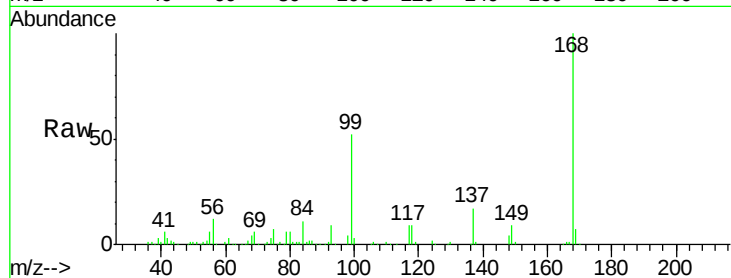
84 94.1 69.0 103.6

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#32

1,1,1-Trichloroethane

Concen: 5.44 ug/l

RT: 7.57 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

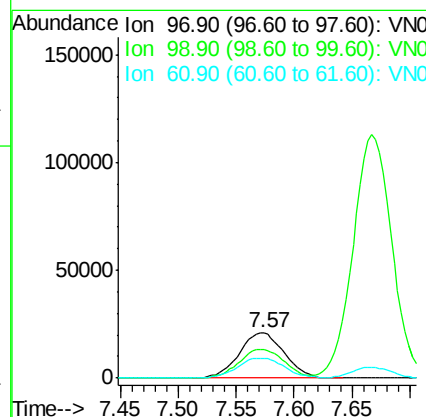
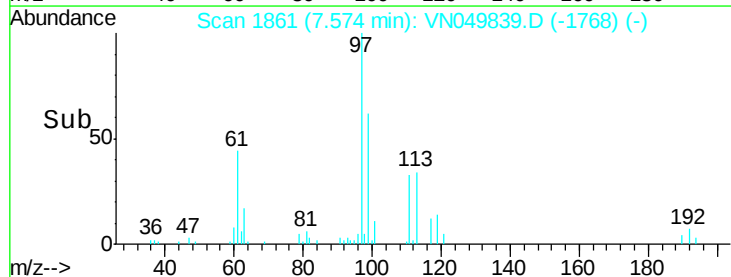
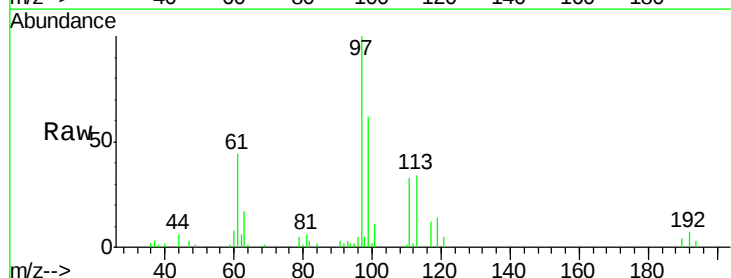
Tgt Ion: 97 Resp: 56460

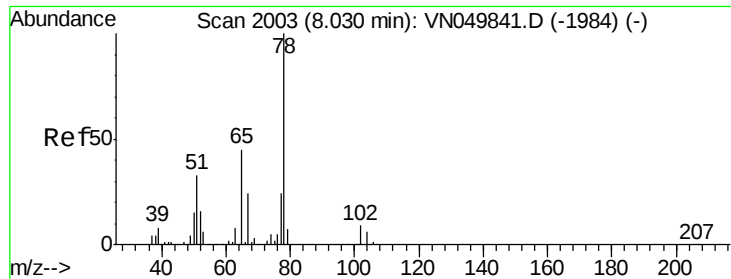
Ion Ratio Lower Upper

97 100

99 64.2 51.0 76.4

61 46.3 35.5 53.3





#33

1,2-Dichloroethane-d4

Concen: 5.31 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 39639

Ion Ratio Lower Upper

65 100

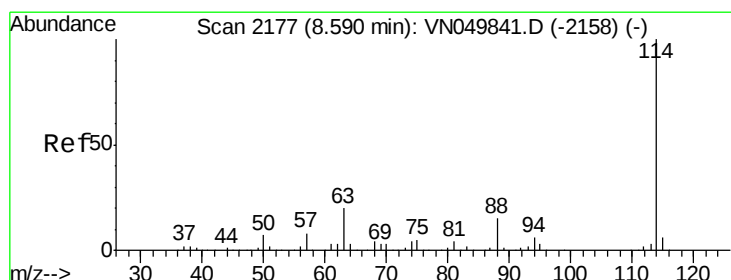
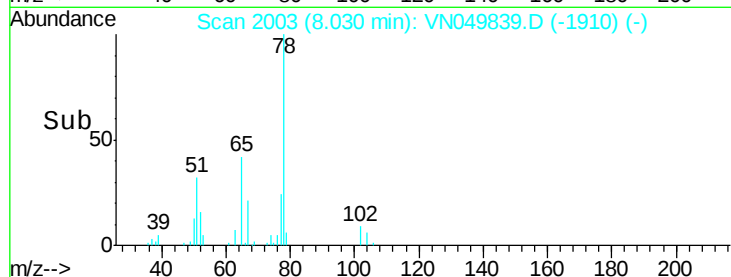
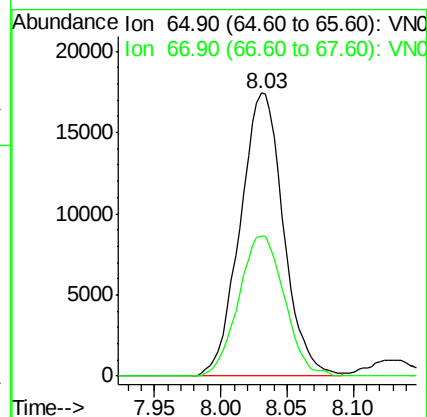
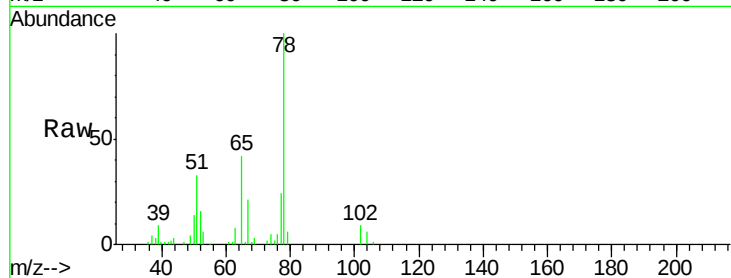
67 52.4 0.0 107.2

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

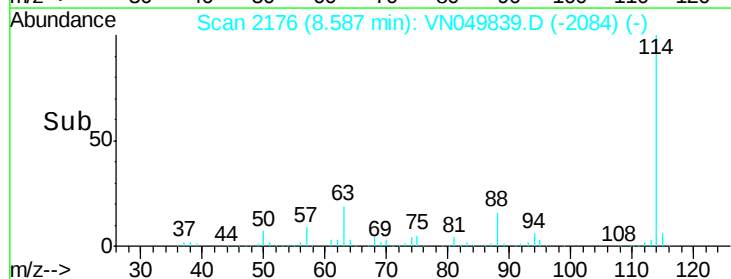
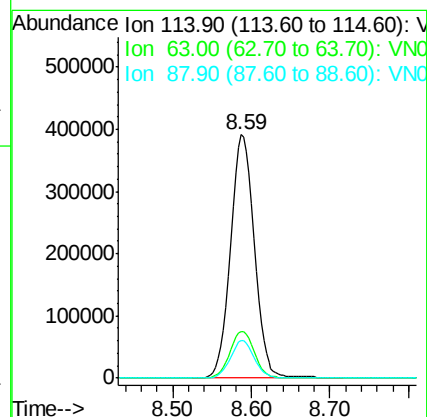
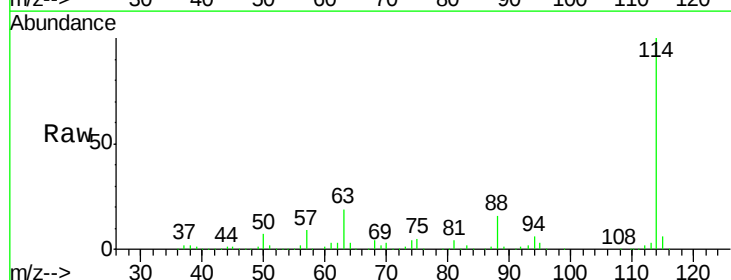
Tgt Ion: 114 Resp: 819064

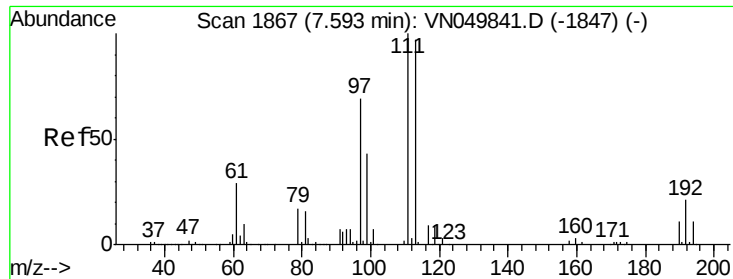
Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.8

88 15.6 0.0 30.6





#35

Dibromofluoromethane

Concen: 4.96 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

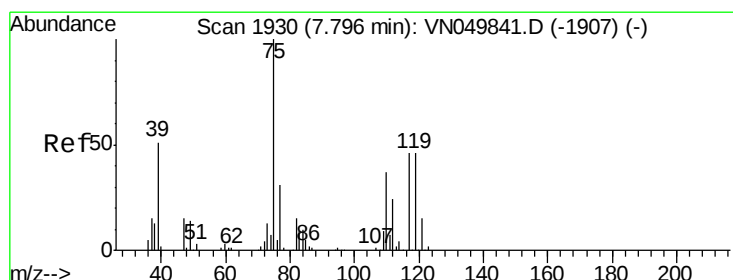
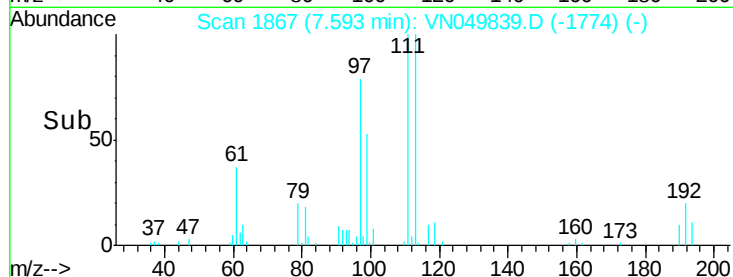
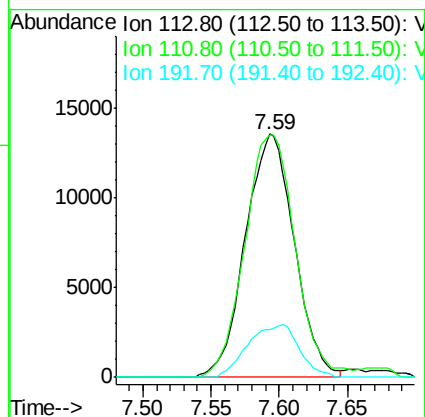
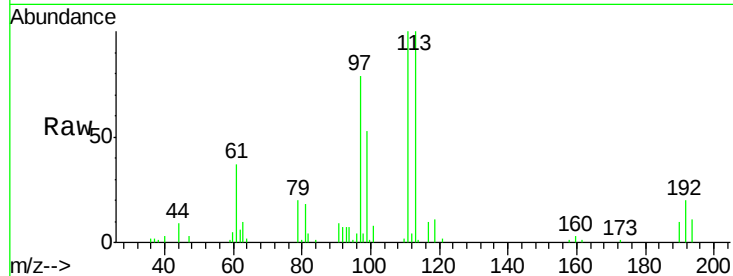
ClientSampleId :

VSTDIC005

Tot Ion:	113	Resp:	33835
Ion Ratio	Lower	Upper	
113	100		
111	102.9	81.8	122.8
192	22.6	17.8	26.6

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#36

1,1-Dichloropropene

Concen: 4.78 ug/l

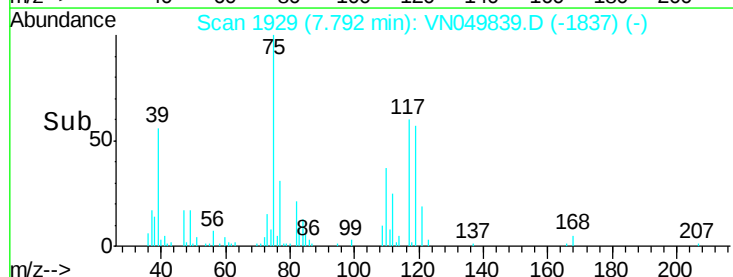
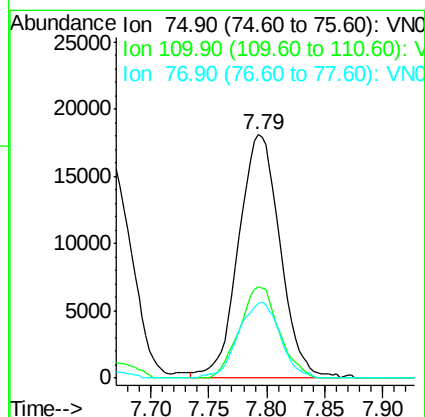
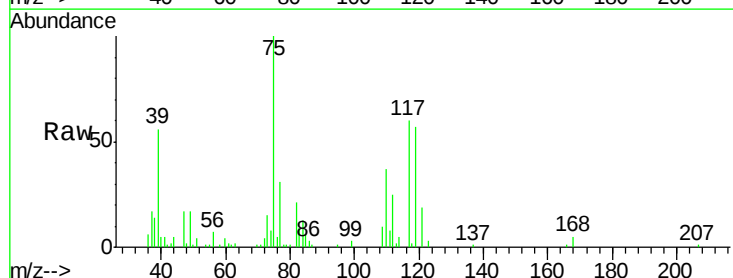
RT: 7.79 min Scan# 1929

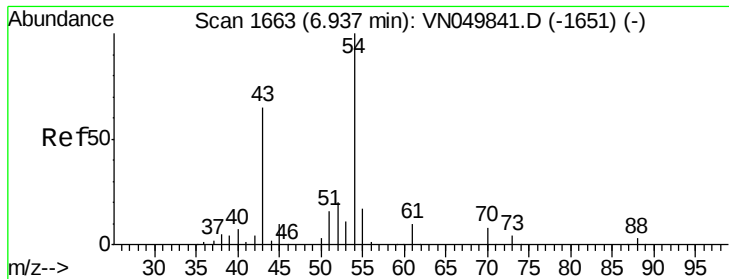
Delta R.T. -0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Tgt Ion:	75	Resp:	45230
Ion Ratio	Lower	Upper	
75	100		
110	35.5	18.1	54.4
77	31.3	24.9	37.3





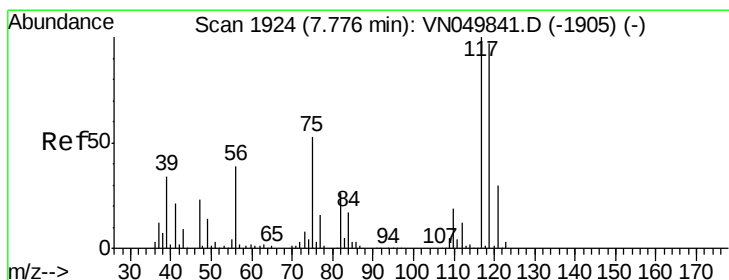
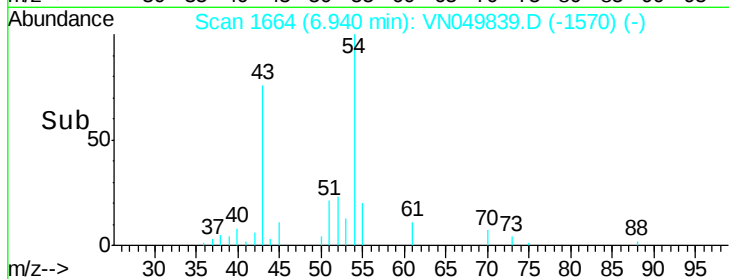
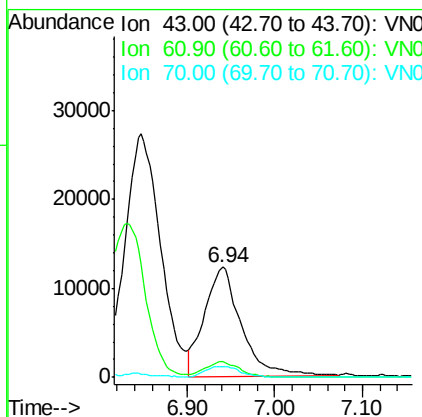
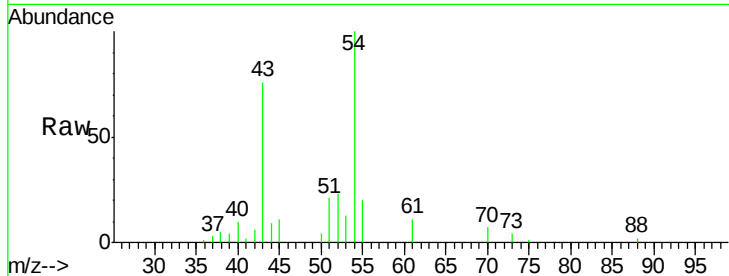
#37
Ethyl Acetate
Concen: 4.76 ug/l
RT: 6.94 min Scan# 1664
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.7	17.5
70	9.4	8.4	12.6

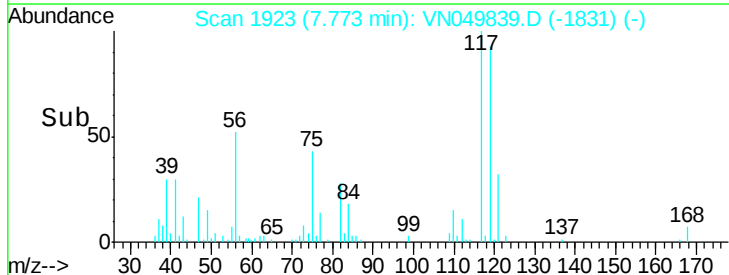
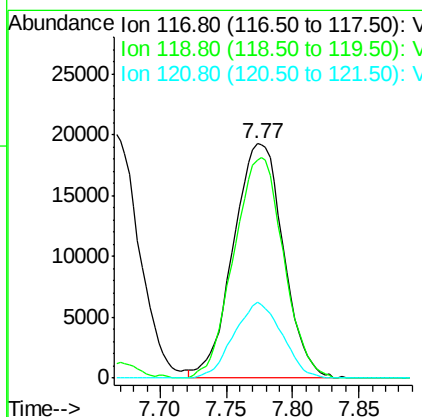
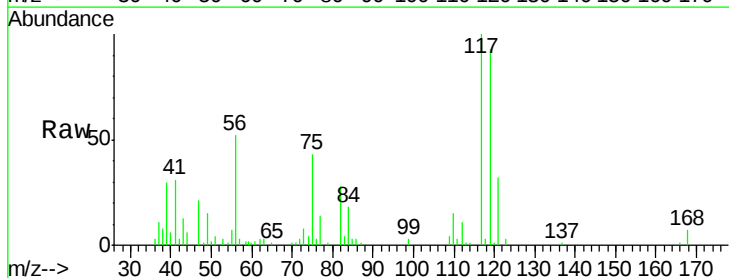
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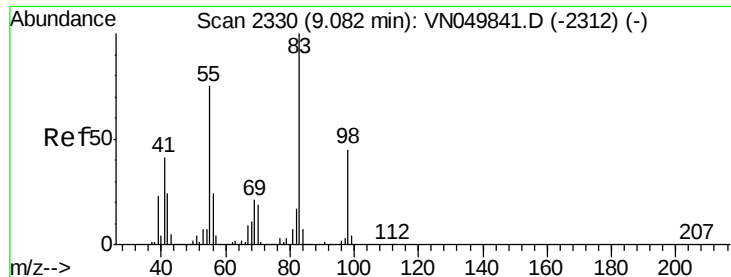
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#38
Carbon Tetrachloride
Concen: 5.21 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.4	77.2	115.8
121	32.2	25.0	37.6





#39

Methvlcvclohexane

Concen: 4.39 ug/l

RT: 9.08 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

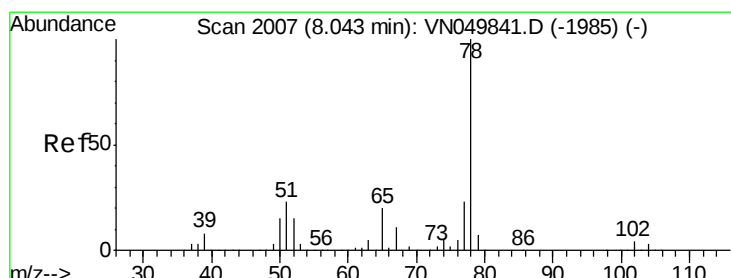
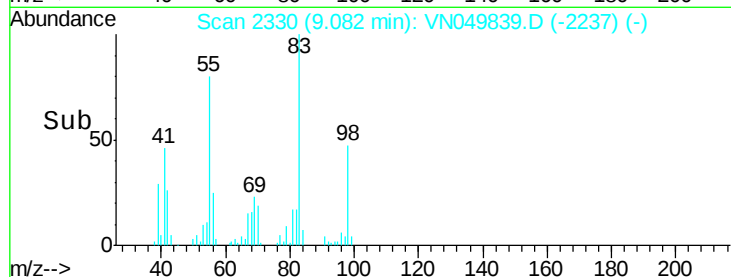
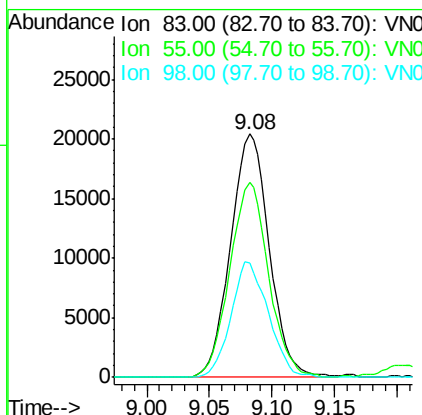
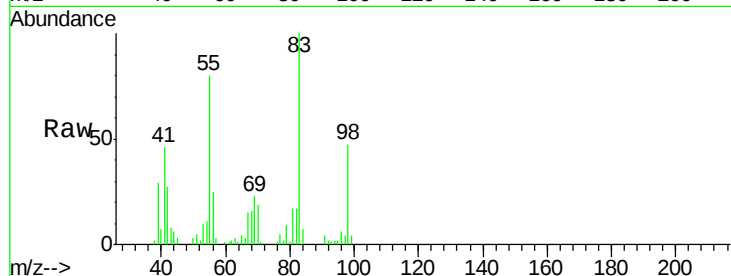
ClientSampled :

VSTDIC005

Tot Ion:	83	Resp:	43812
Ion Ratio	Lower	Upper	
83	100		
55	80.3	59.7	89.5
98	46.8	36.5	54.7

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#40

Benzene

Concen: 4.94 ug/l

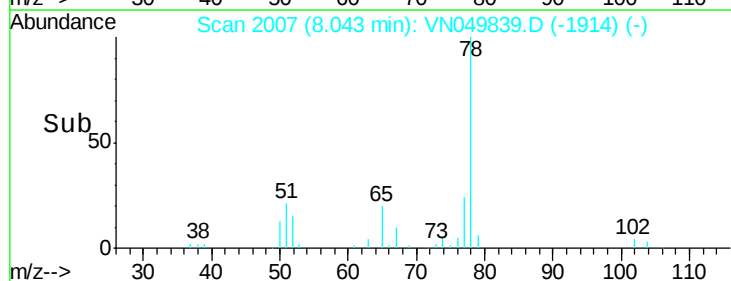
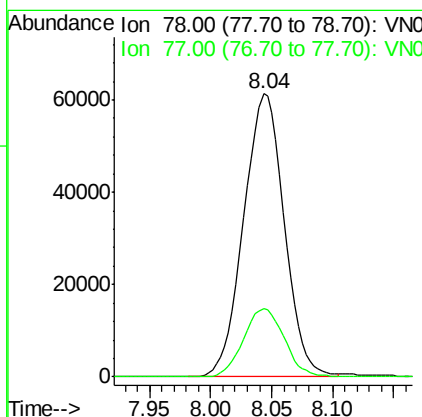
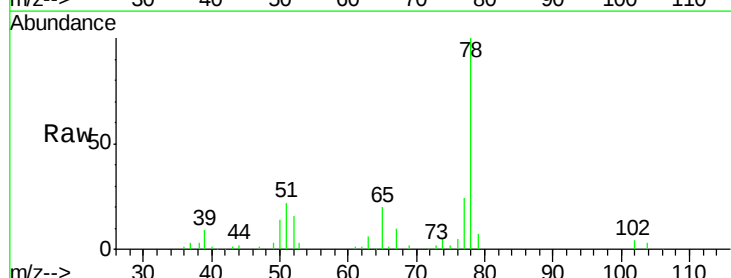
RT: 8.04 min Scan# 2007

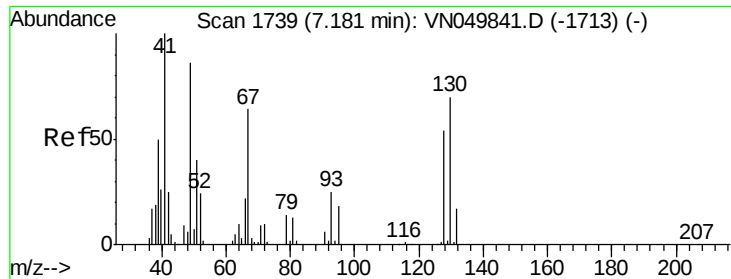
Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Tgt Ion:	78	Resp:	141254
Ion Ratio	Lower	Upper	
78	100		
77	24.1	19.0	28.4





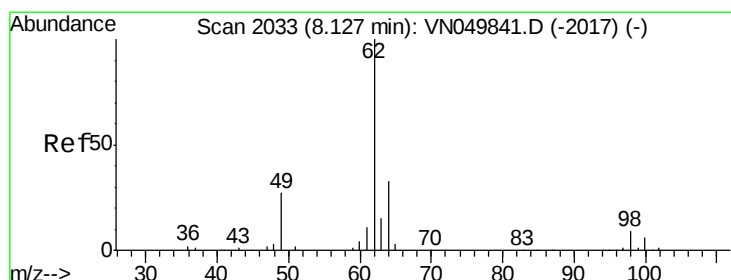
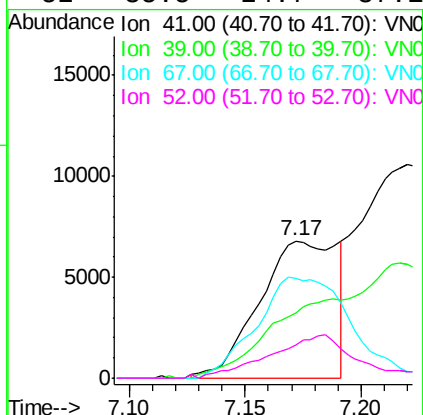
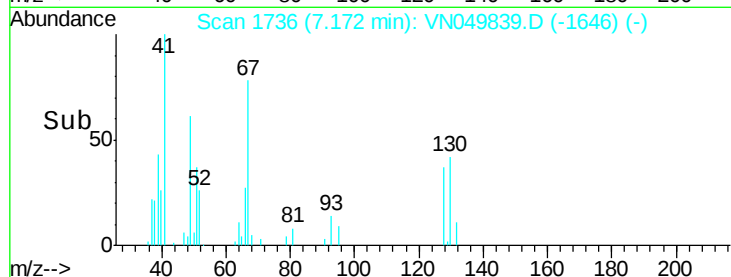
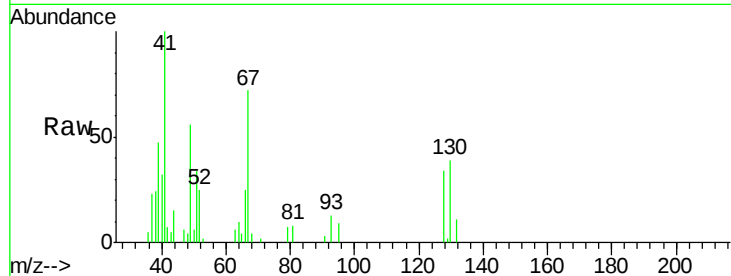
#41
Methacrylonitrile
Concen: 4.45 ug/l m
RT: 7.17 min Scan# 1736
Delta R.T. -0.01 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.4	68.2#
67	90.6	65.4	98.0
52	35.5	24.7	37.1

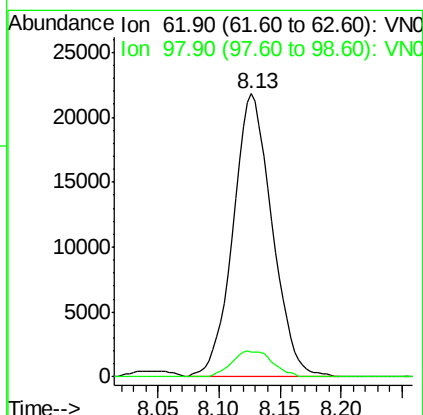
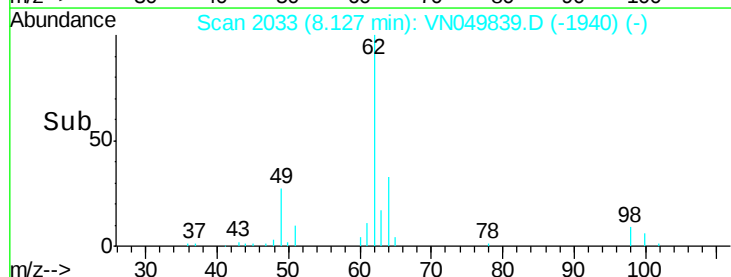
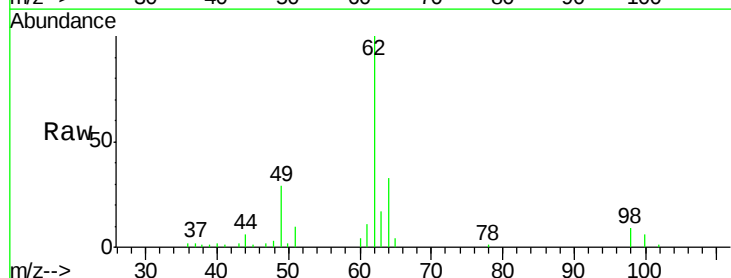
Manual Integrations
APPROVED

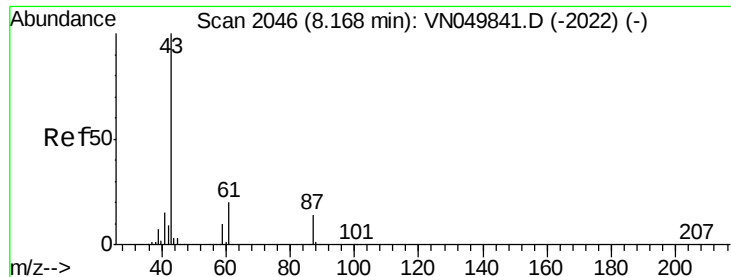
MMDadoda
7/18/2018 11:59:08 AM



#42
1,2-Dichloroethane
Concen: 5.13 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.0





#43

Isopropyl Acetate

Concen: 3.28 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

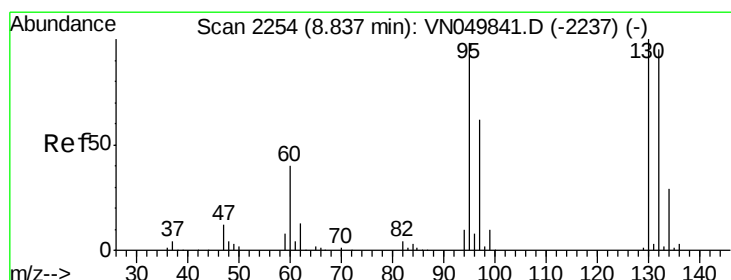
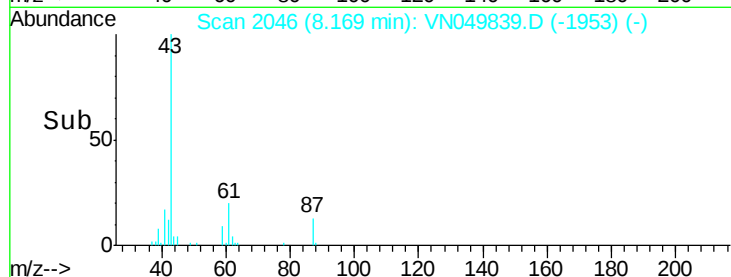
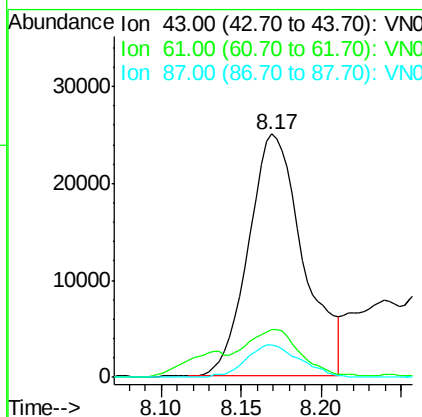
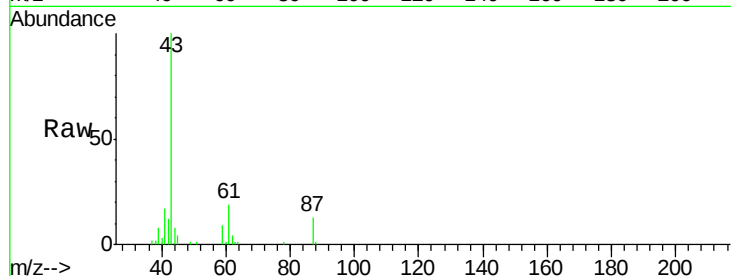
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	58929
Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.9	22.3
87	13.2	10.0	15.0

Manual Integrations
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#44

Trichloroethene

Concen: 5.06 ug/l

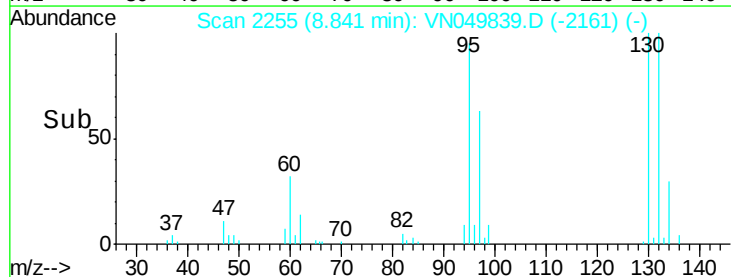
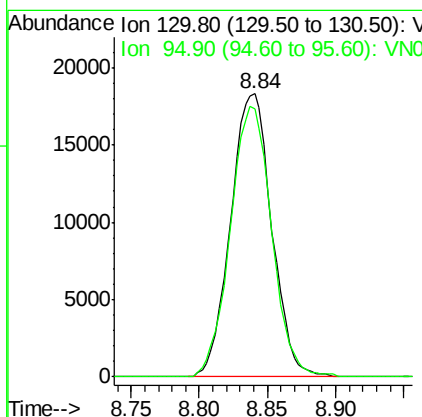
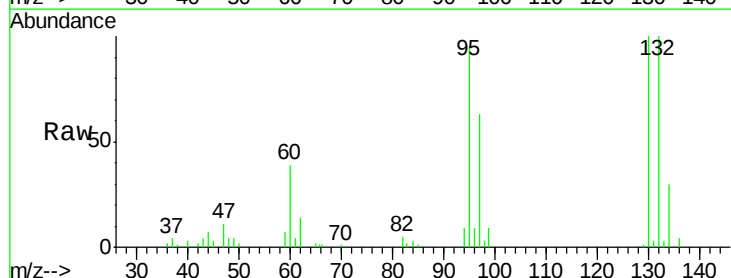
RT: 8.84 min Scan# 2255

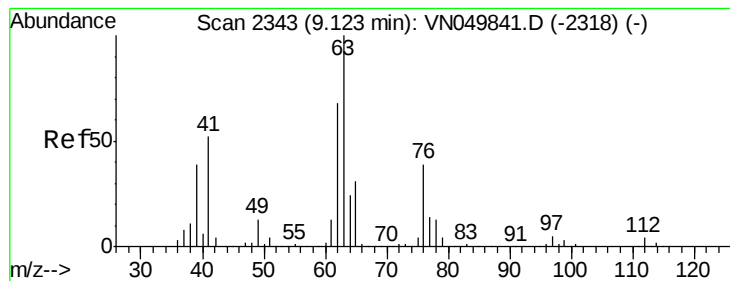
Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Tgt Ion:	130	Resp:	38319
Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	192.8





#45

1,2-Dichloropropane

Concen: 5.17 ug/l

RT: 9.12 min Scan# 2343

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 63 Resp: 38152

Ion Ratio Lower Upper

63 100

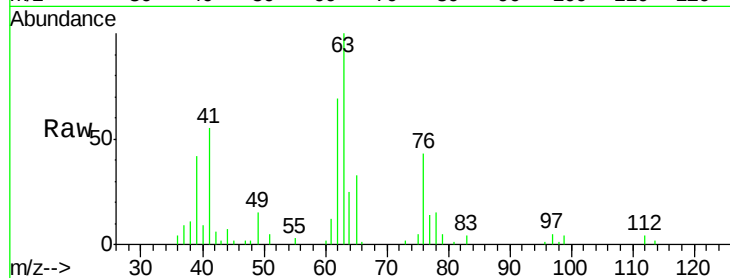
65 33.2 24.7 37.1

Manual Integrations

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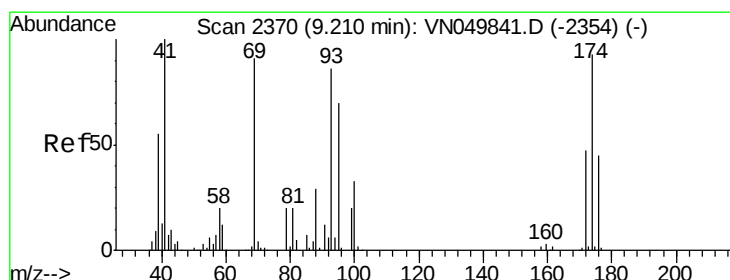
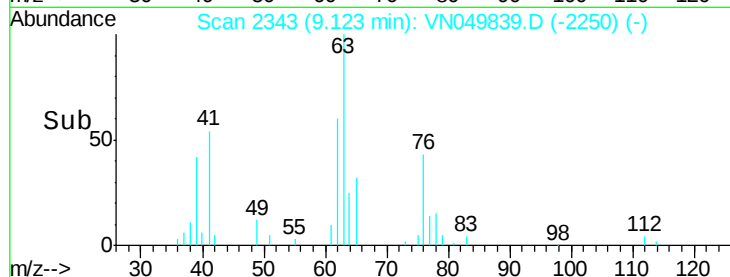
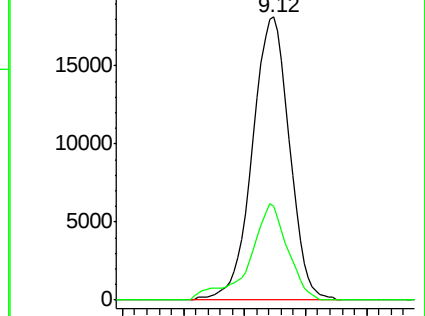
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 5.10 ug/l

RT: 9.21 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

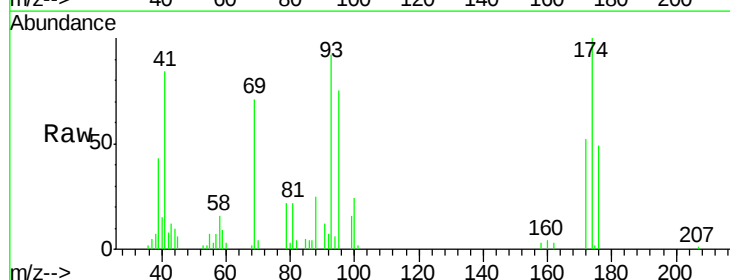
Tgt Ion: 93 Resp: 25030

Ion Ratio Lower Upper

93 100

95 82.3 67.9 101.9

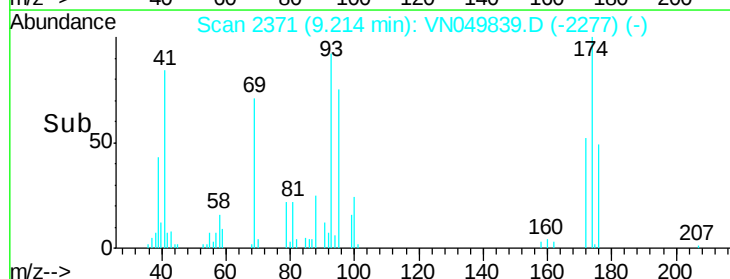
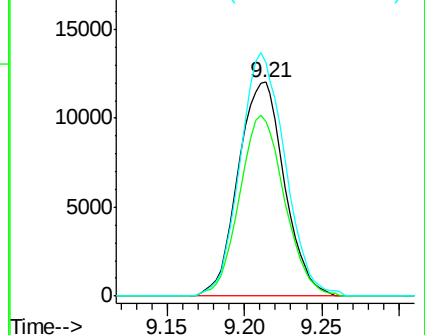
174 110.7 89.4 134.0

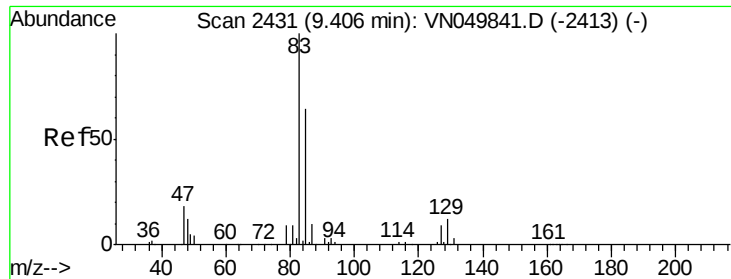


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 5.02 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

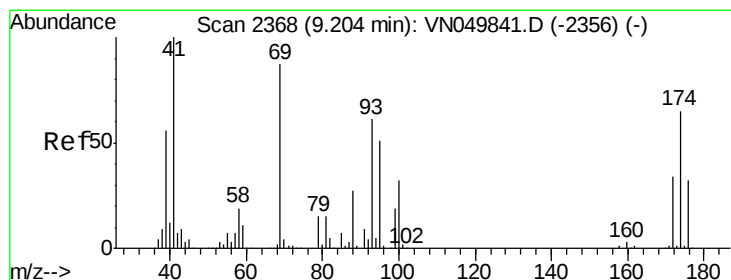
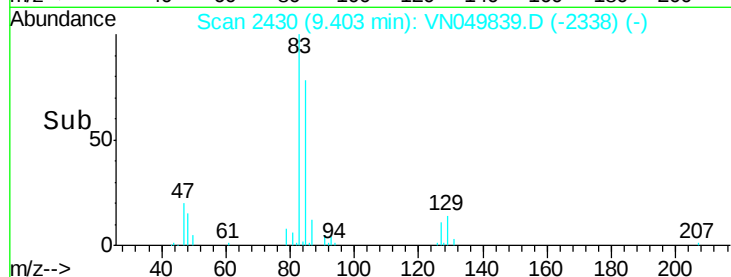
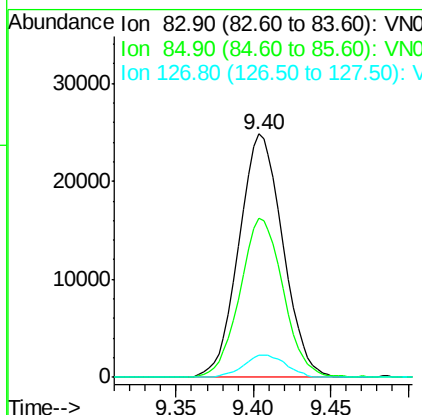
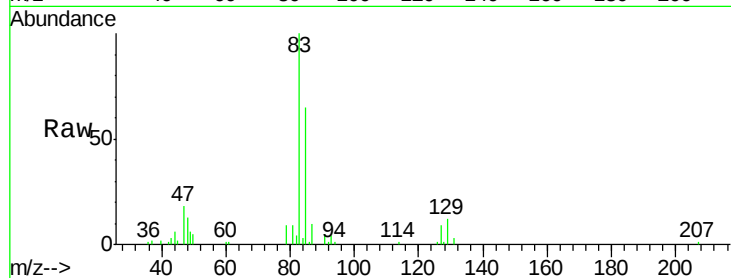
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	48971
Ion Ratio	Lower	Upper	
83	100		
85	65.1	50.5	75.7
127	9.0	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.15 ug/l

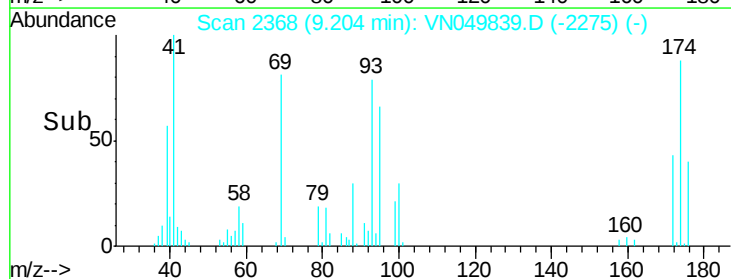
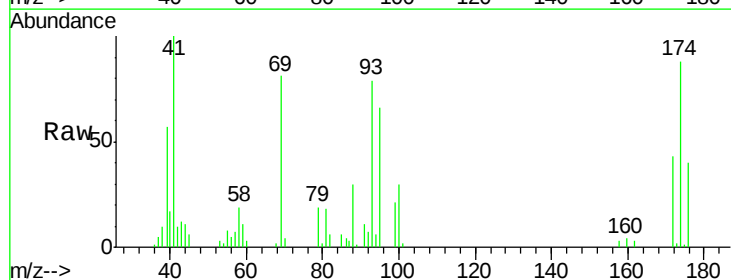
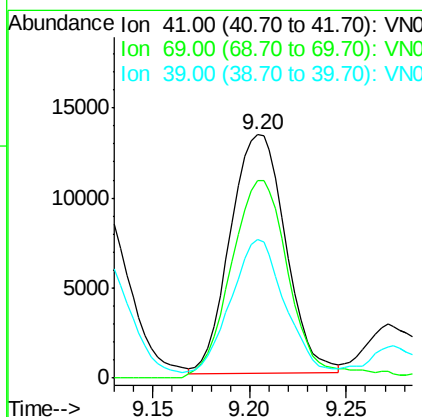
RT: 9.20 min Scan# 2368

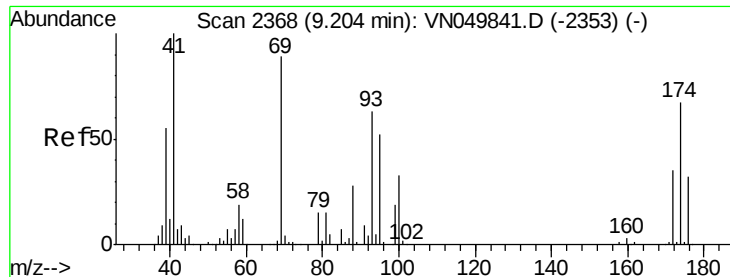
Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Tgt Ion:	41	Resp:	26373
Ion Ratio	Lower	Upper	
41	100		
69	86.5	71.5	107.3
39	57.4	44.7	67.1





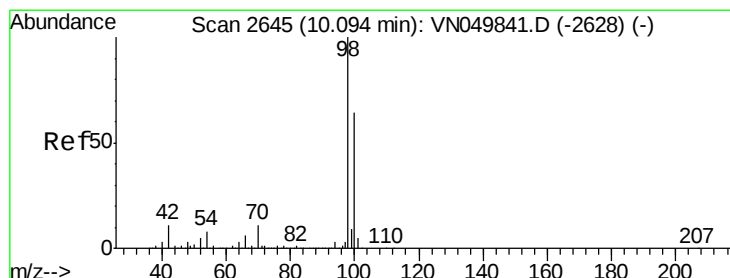
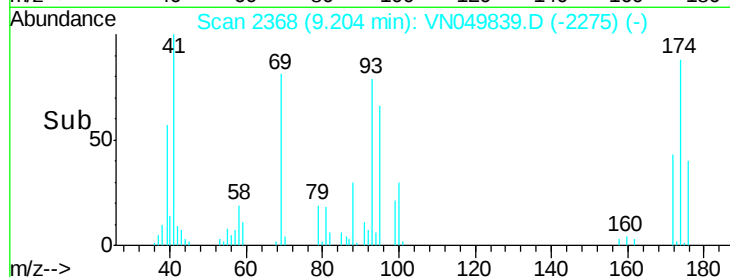
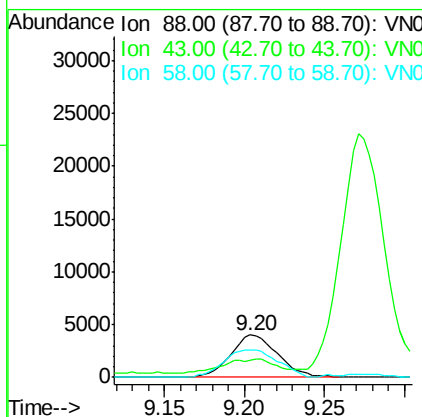
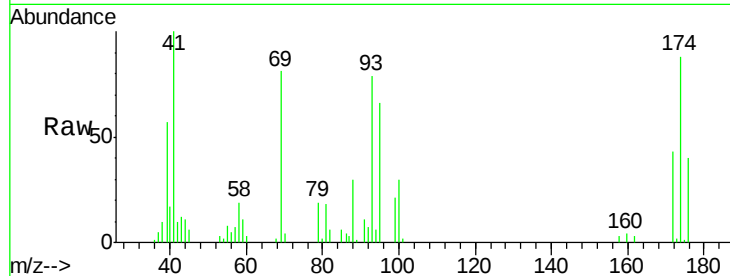
#49
1,4-Dioxane
Concen: 78.07 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	88	Resp	8091
Ion Ratio	100	Lower	Upper
43	37.2	25.1	37.7
58	74.3	52.5	78.7

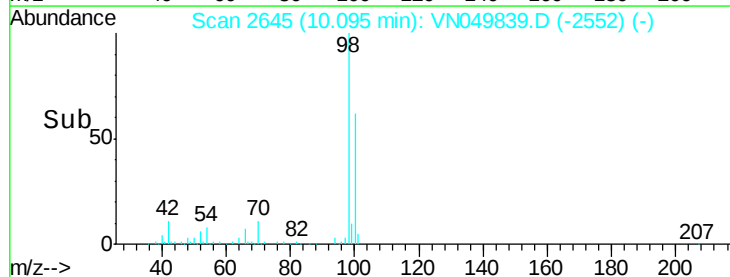
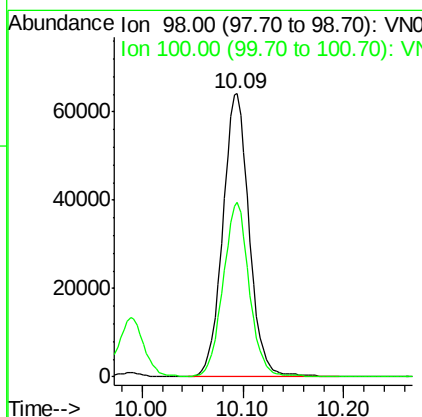
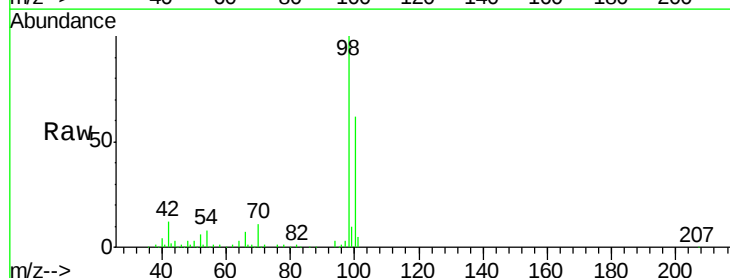
Manual Integrations
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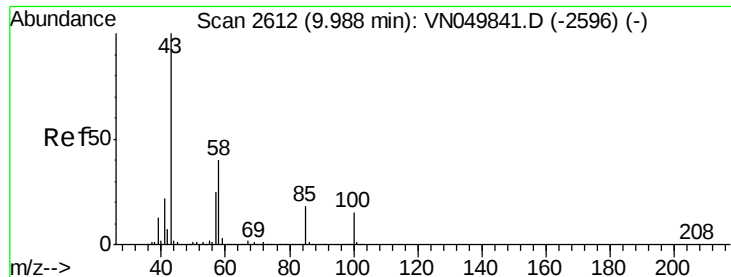
MMDadoda
7/18/2018 11:59:08 AM



#50
Toluene-d8
Concen: 4.64 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	98	Resp	117367
Ion Ratio	100	Lower	Upper
98	100	61.4	77.5
100	61.4	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 21.23 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 162800

Ion Ratio Lower Upper

43 100

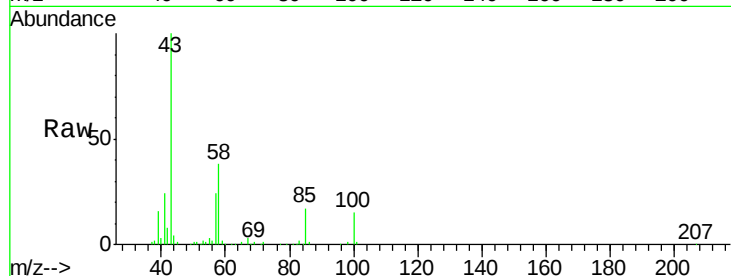
58 37.9 31.8 47.8

Manual Integrations

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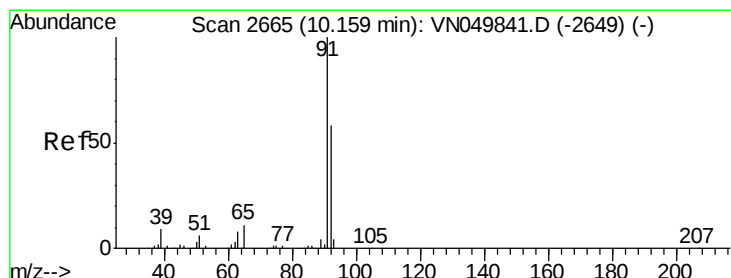
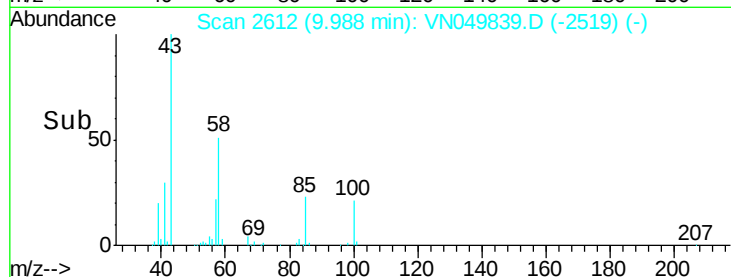
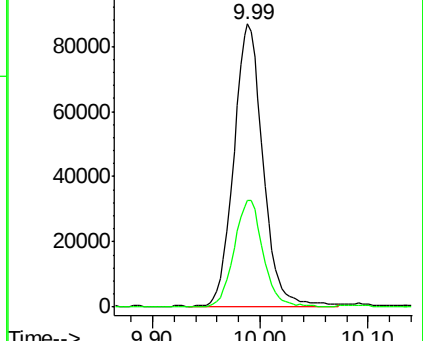
MMDadoda

7/18/2018 11:59:08 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 4.88 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN049839.D

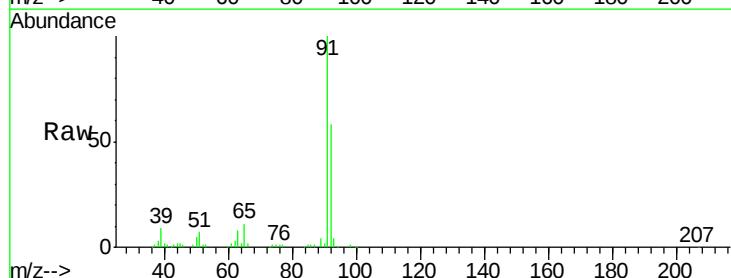
Acq: 17 Jul 2018 11:03

Tgt Ion: 92 Resp: 83951

Ion Ratio Lower Upper

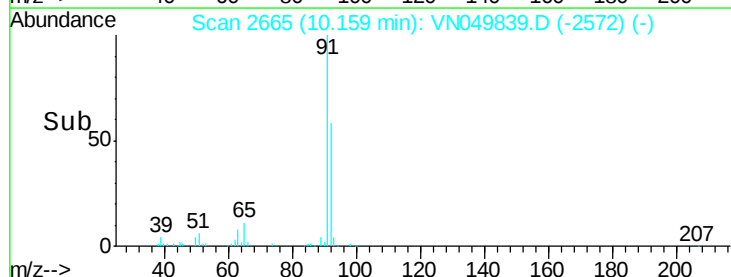
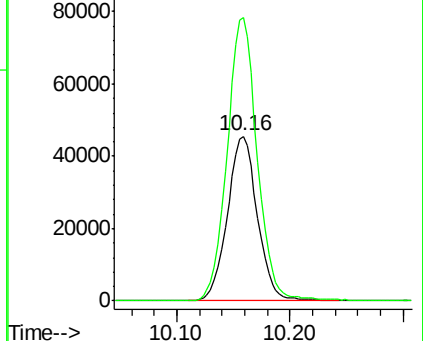
92 100

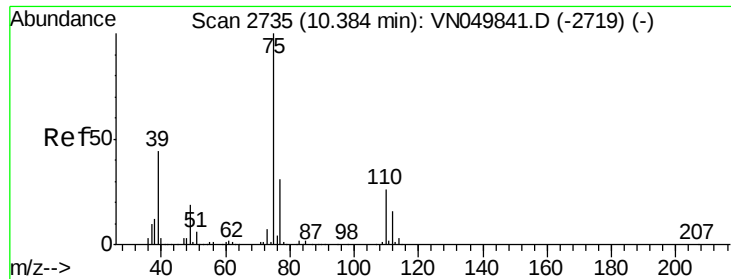
91 171.9 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





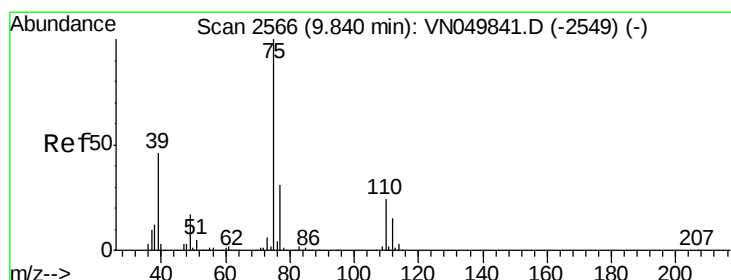
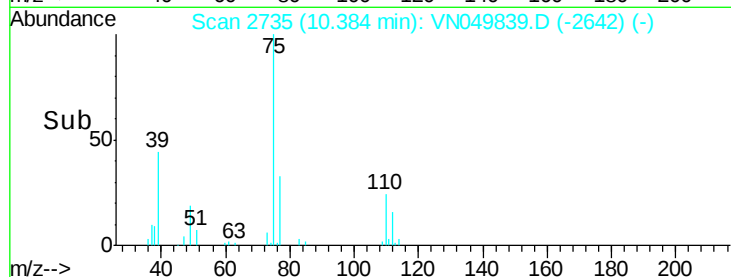
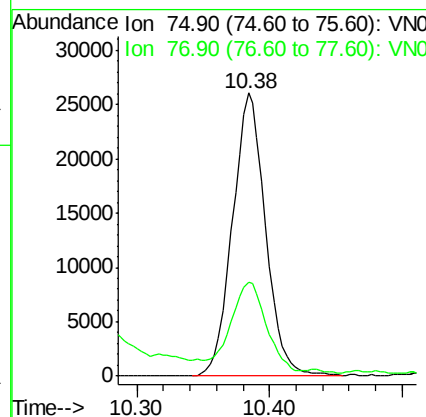
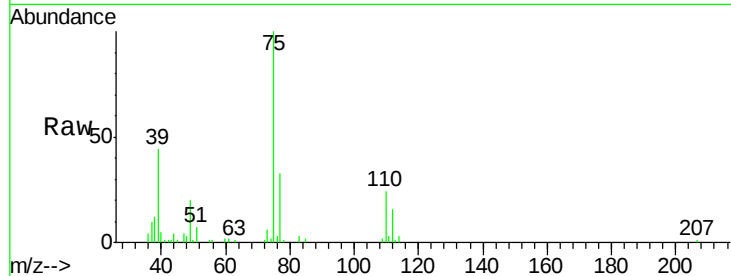
#53
t-1,3-Dichloropropene
Concen: 4.46 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 75 Resp: 45039
Ion Ratio Lower Upper
75 100
77 32.1 25.2 37.8

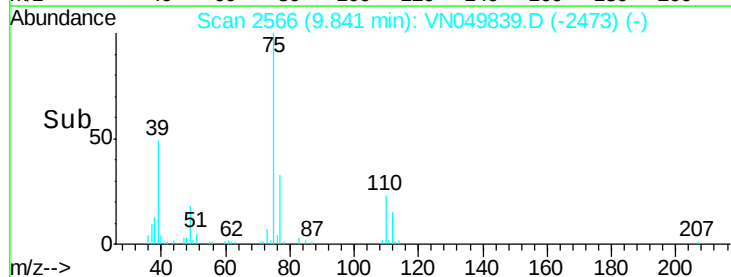
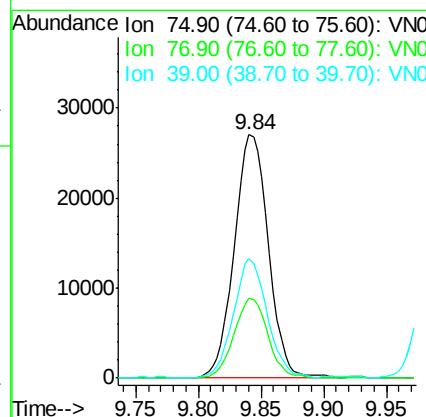
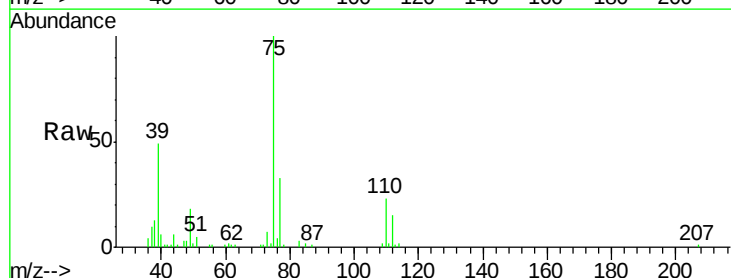
Manual Integrations
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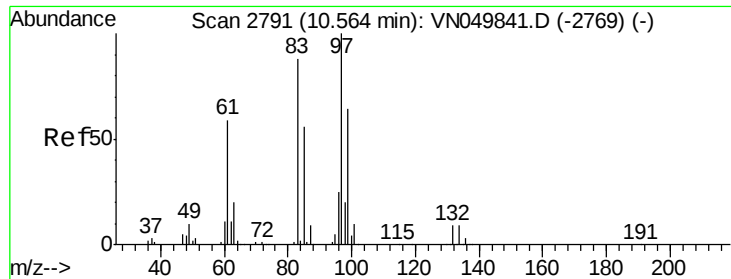
MMDadoda
7/18/2018 11:59:08 AM



#54
cis-1,3-Dichloropropene
Concen: 4.64 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion: 75 Resp: 51129
Ion Ratio Lower Upper
75 100
77 32.7 25.3 37.9
39 49.2 35.5 53.3





#55

1,1,2-Trichloroethane

Concen: 4.99 ug/l

RT: 10.56 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 97 Resp: 34665

Ion Ratio Lower Upper

97 100

83 91.6 69.0 103.6

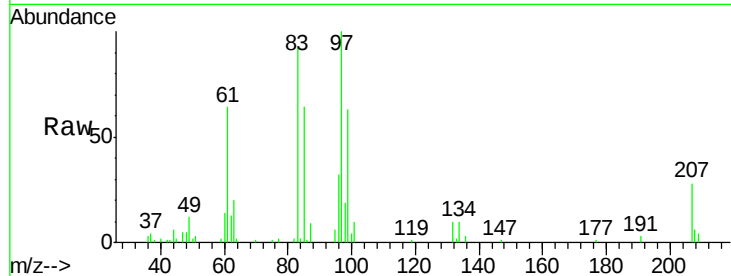
85 63.7 44.9 67.3

99 63.3 49.8 74.6

Manual Integrations
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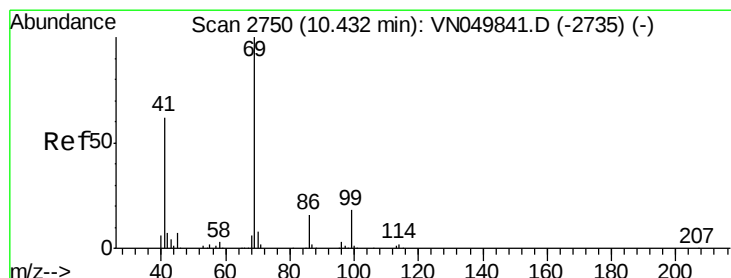
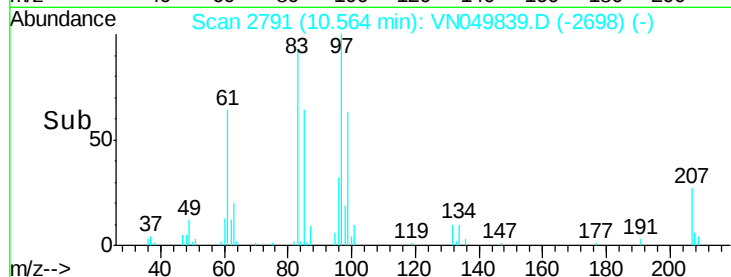
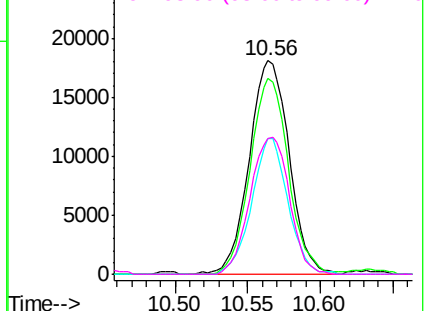


Abundance Ion 96.90 (96.60 to 97.60): VN049839.D (-2698) (-)

Ion 82.90 (82.60 to 83.60): VN049839.D (-2698) (-)

Ion 84.90 (84.60 to 85.60): VN049839.D (-2698) (-)

Ion 98.90 (98.60 to 99.60): VN049839.D (-2698) (-)



#56

Ethyl methacrylate

Concen: 3.97 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

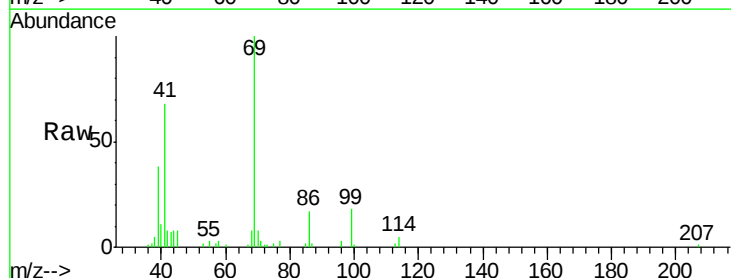
Tgt Ion: 69 Resp: 36374

Ion Ratio Lower Upper

69 100

41 68.2 51.6 77.4

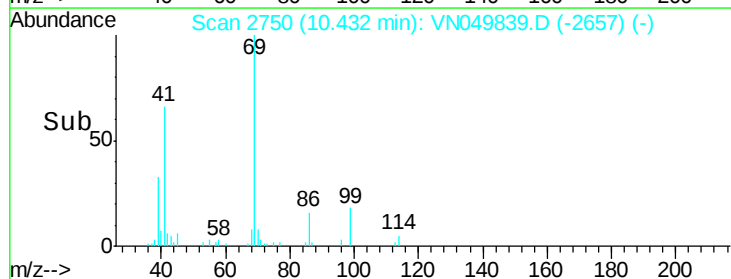
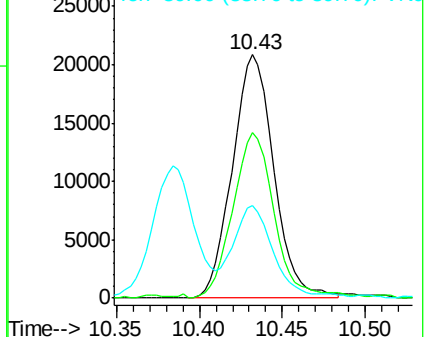
39 34.1 25.8 38.8

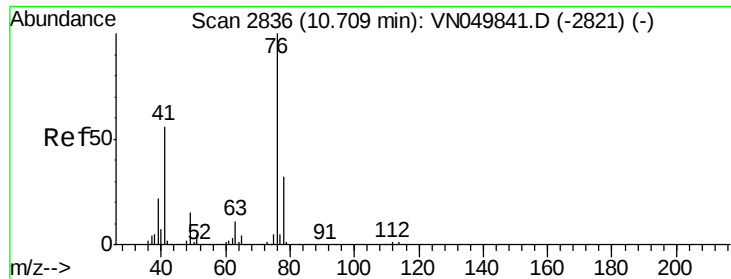


Abundance Ion 69.00 (68.70 to 69.70): VN049839.D (-2657) (-)

Ion 41.00 (40.70 to 41.70): VN049839.D (-2657) (-)

Ion 39.00 (38.70 to 39.70): VN049839.D (-2657) (-)





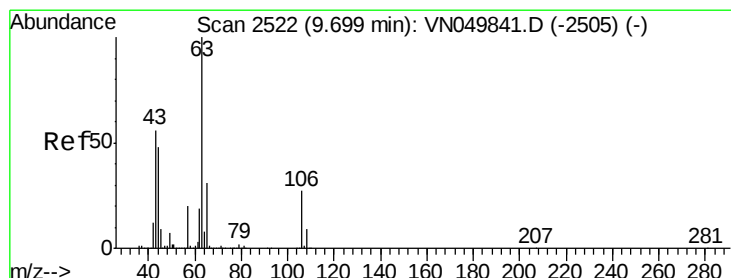
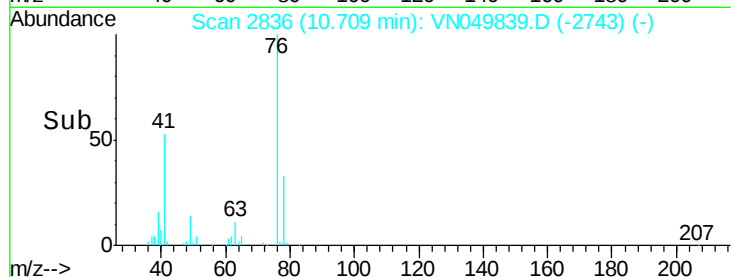
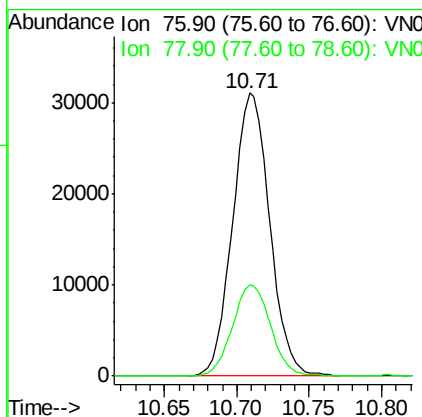
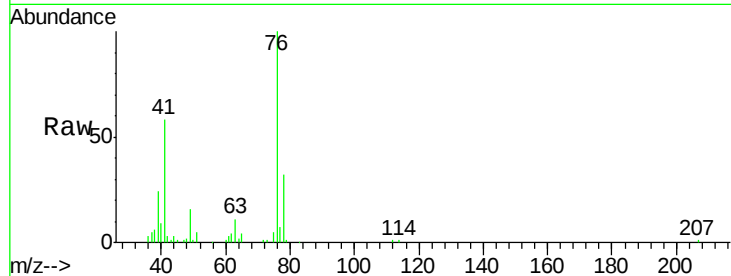
#57
 1,3-Dichloropropane
 Concen: 4.84 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.8	38.8

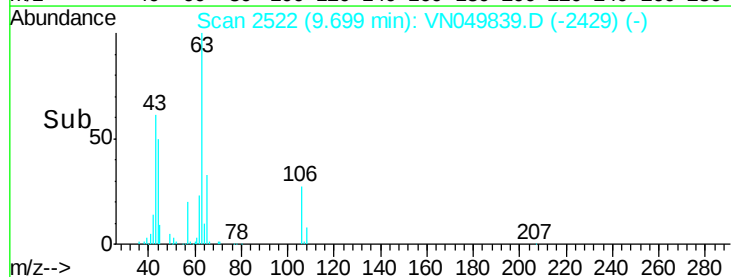
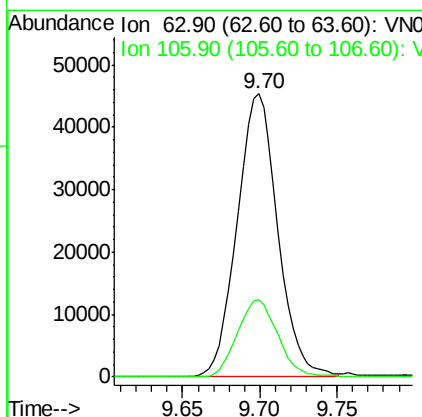
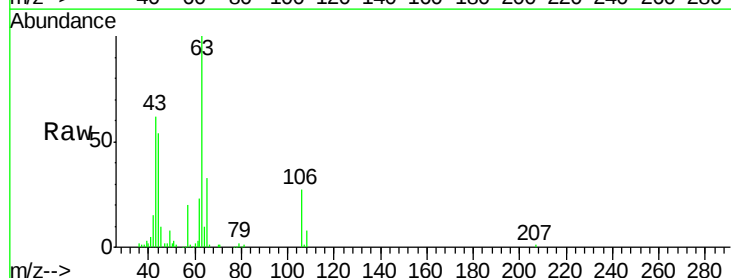
Manual Integrations
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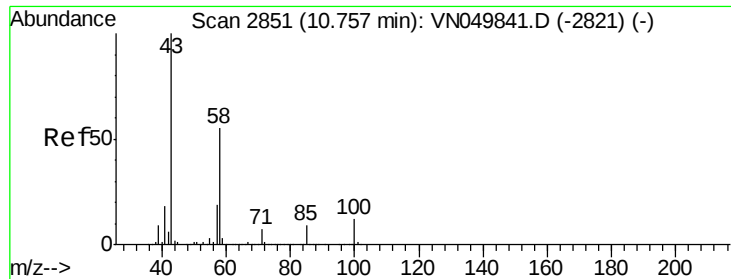
MMDadoda
 7/18/2018 11:59:08 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 19.38 ug/l
 RT: 9.70 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.8	32.8





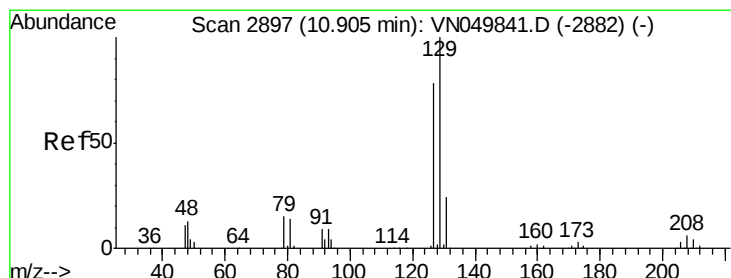
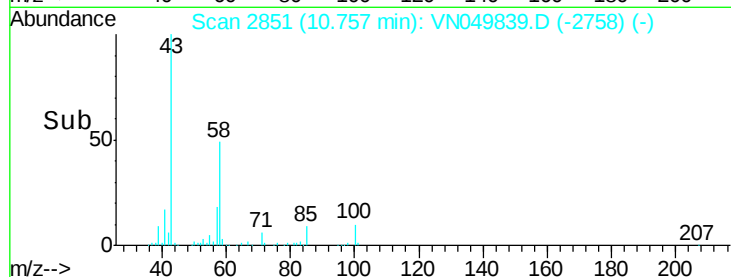
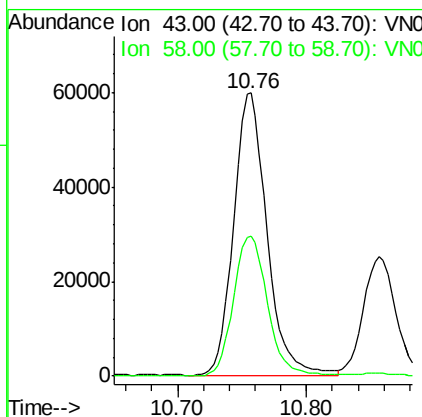
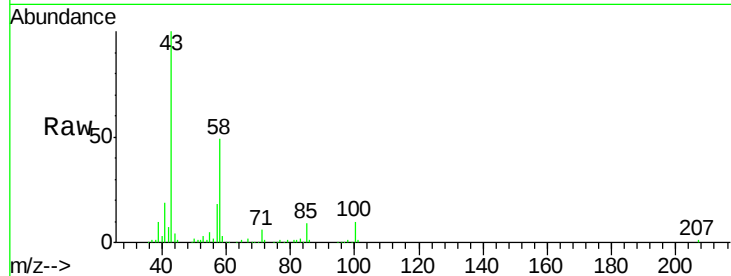
#59
2-Hexanone
Concen: 19.66 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 106890
Ion Ratio Lower Upper
43 100
58 50.8 27.8 83.4

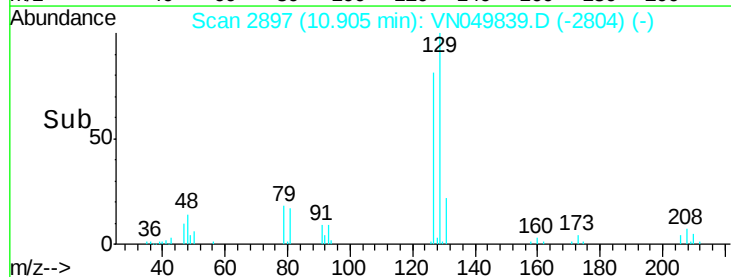
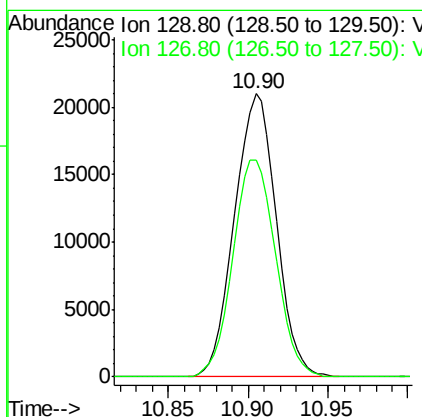
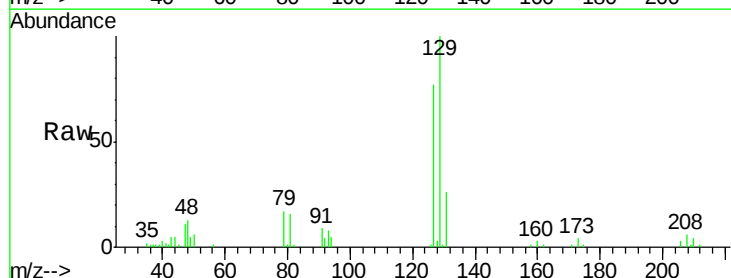
Manual Integrations
APPROVED

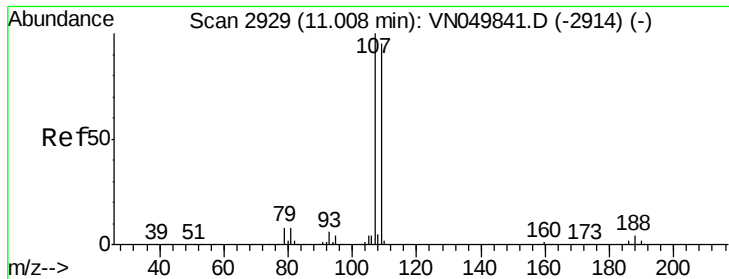
MMDadoda
7/18/2018 11:59:08 AM



#60
Dibromochloromethane
Concen: 4.82 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion: 129 Resp: 37407
Ion Ratio Lower Upper
129 100
127 78.3 38.3 114.9





#61

1,2-Dibromoethane

Concen: 4.93 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 34139

Ion Ratio Lower Upper

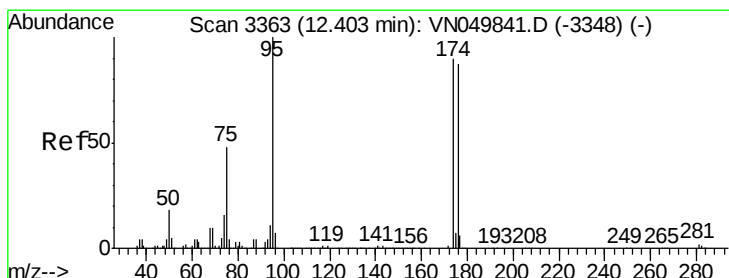
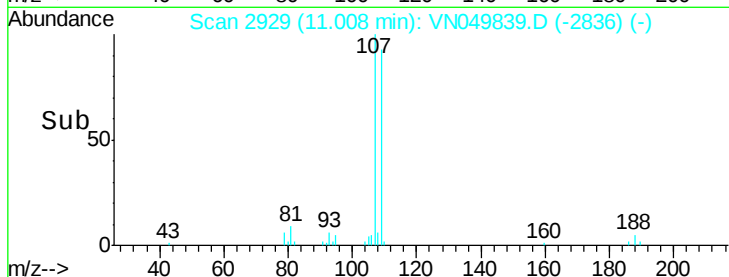
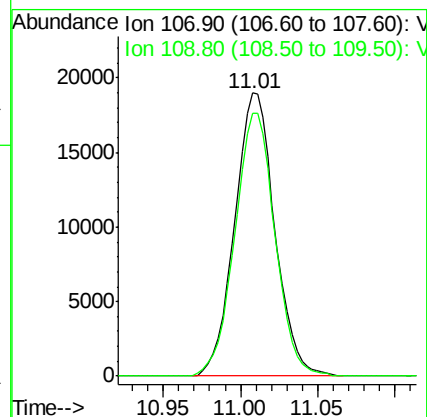
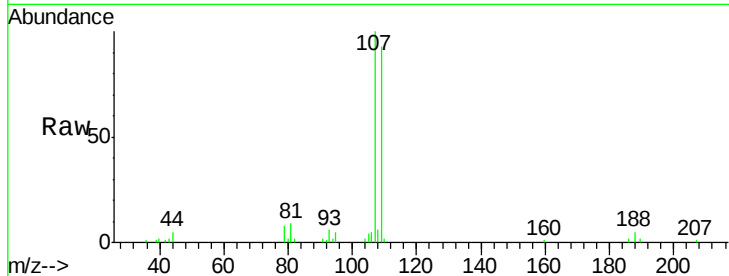
107 100

109 92.9 75.0 112.6

Manual Integrations
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MMDadoda

7/18/2018 11:59:08 AM



#62

4-Bromofluorobenzene

Concen: 4.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

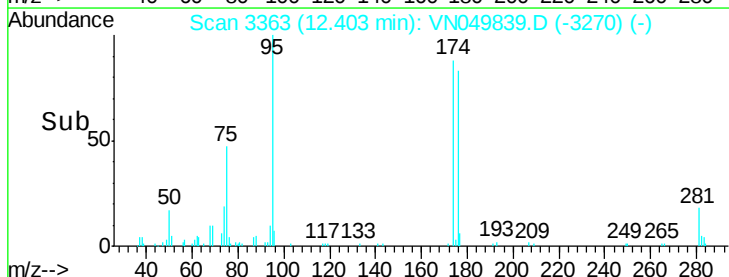
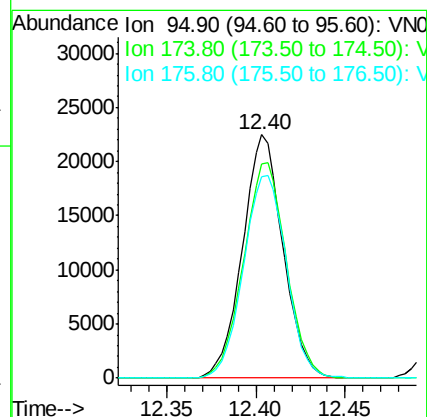
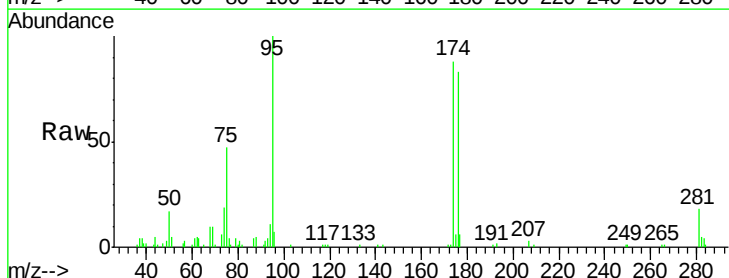
Tgt Ion: 95 Resp: 35731

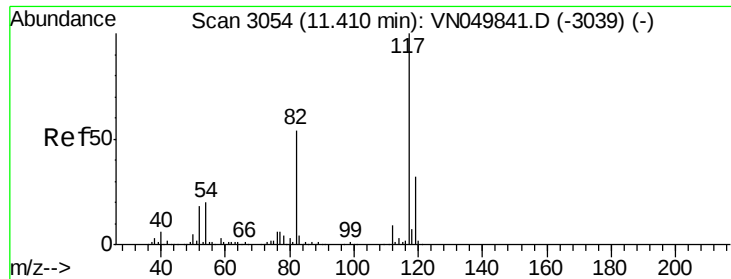
Ion Ratio Lower Upper

95 100

174 93.0 0.0 179.6

176 88.1 0.0 174.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

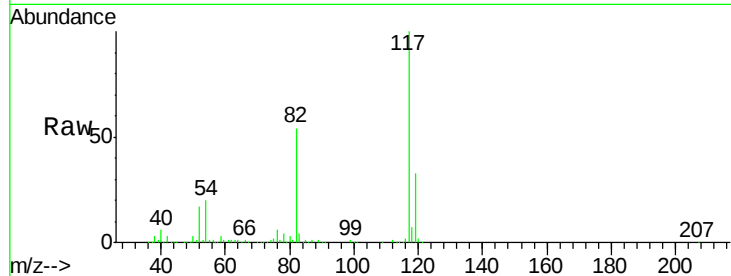
ClientSampled :

VSTDIC005

Tot Ion:	117	Resp:	737289
Ion Ratio	Lower	Upper	
117	100		
82	53.8	41.9	62.9
119	32.5	25.4	38.2

Manual Integrations
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MMDadoda
7/18/2018 11:59:08 AM

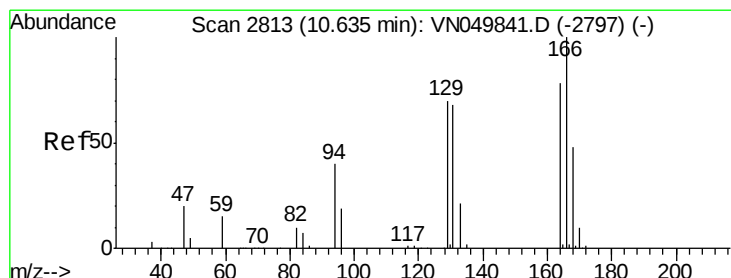
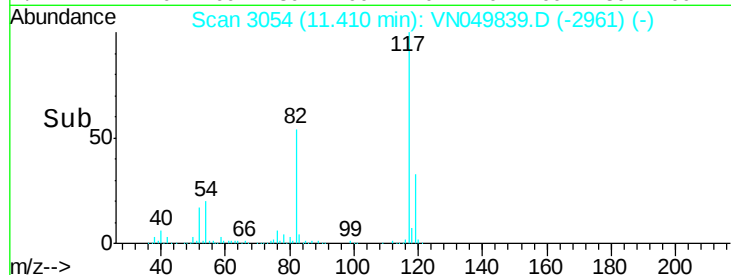


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

Time--> 11.30 11.40 11.50



#64

Tetrachloroethene

Concen: 5.00 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Tgt Ion:	164	Resp:	34007
Ion Ratio	Lower	Upper	
164	100		
166	130.2	101.8	152.6
129	91.4	72.8	109.2
131	97.2	70.0	105.0

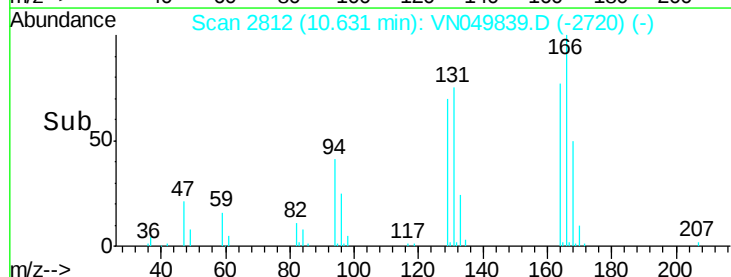
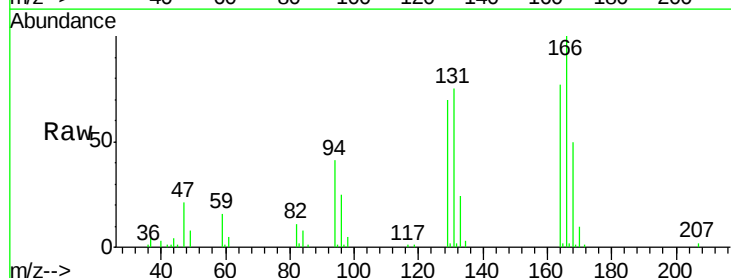
Abundance Ion 163.80 (163.50 to 164.50): V

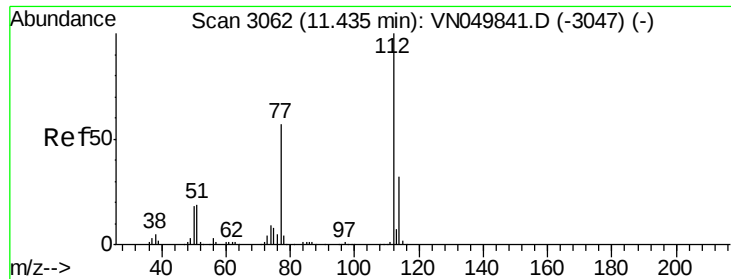
Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

Time--> 10.55 10.60 10.65 10.70





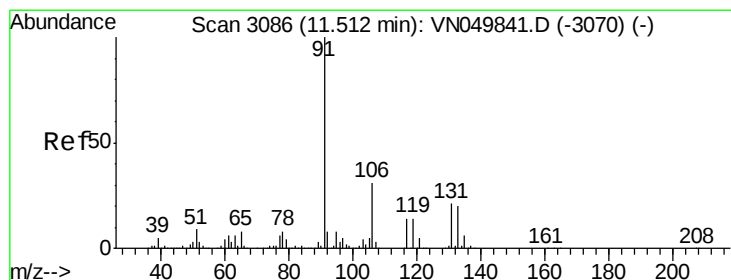
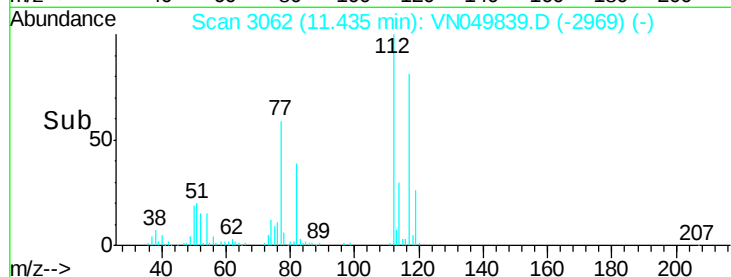
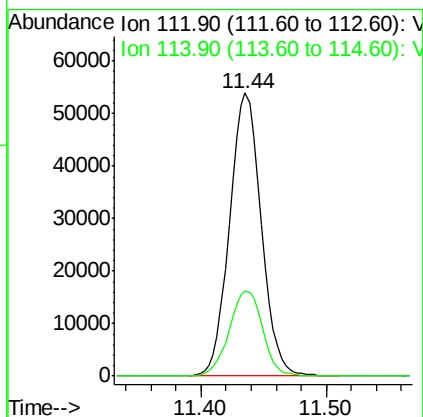
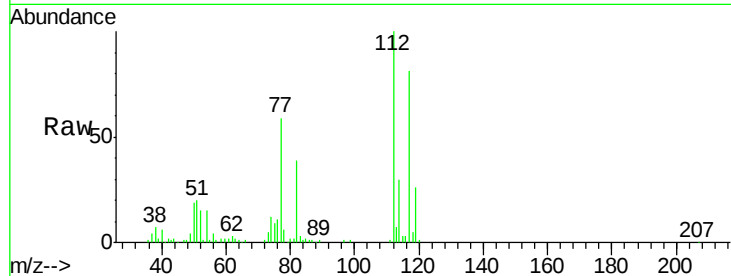
#65
Chlorobenzene
Concen: 4.96 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 94493
Ion Ratio Lower Upper
112 100
114 30.0 25.4 38.0

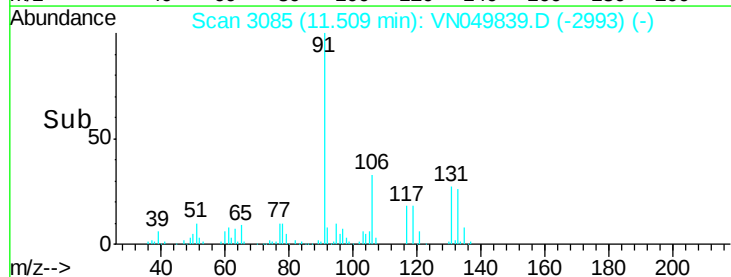
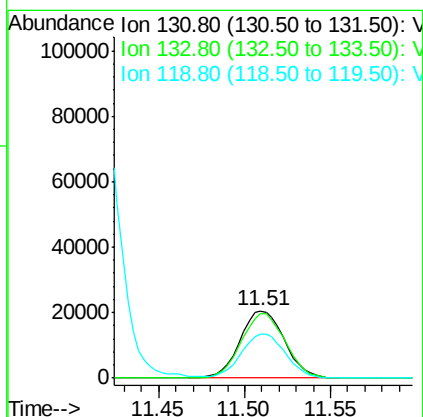
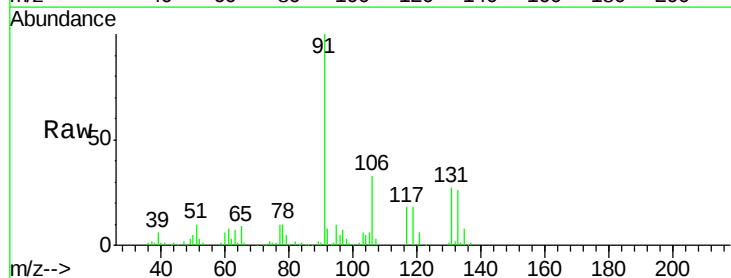
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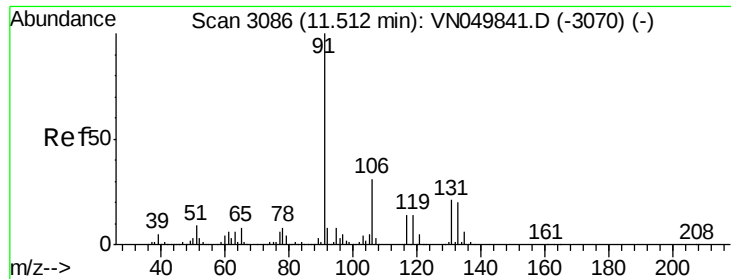
MMDadoda
7/18/2018 11:59:08 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 5.19 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion:131 Resp: 36804
Ion Ratio Lower Upper
131 100
133 94.8 47.5 142.6
119 65.9 33.1 99.3





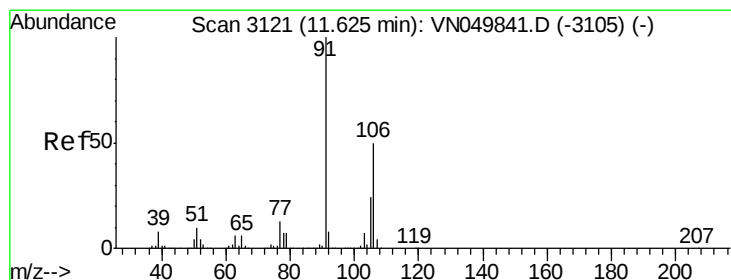
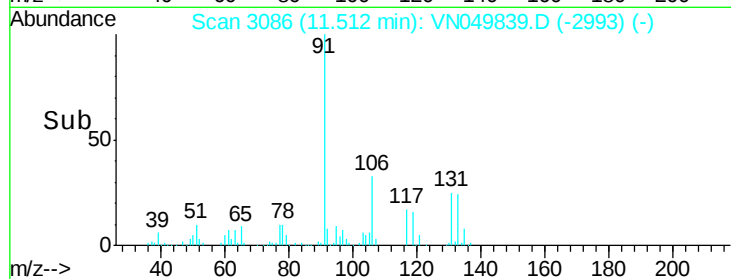
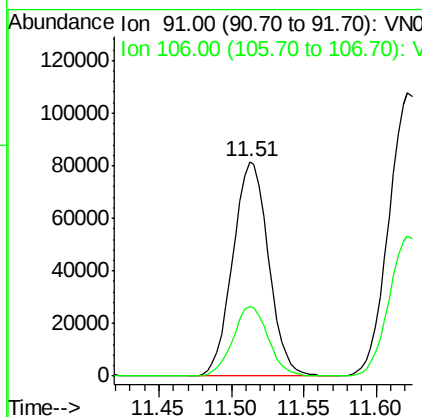
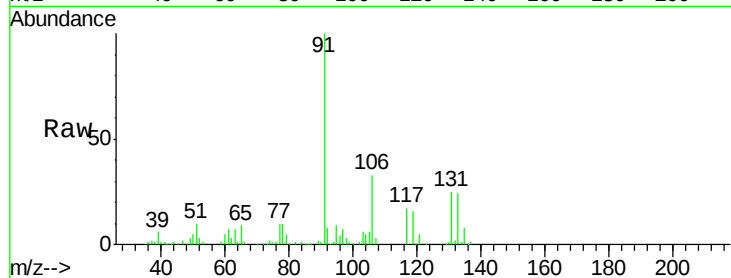
#67
Ethyl Benzene
Concen: 4.47 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 91 Resp: 139382
Ion Ratio Lower Upper
91 100
106 32.7 24.8 37.2

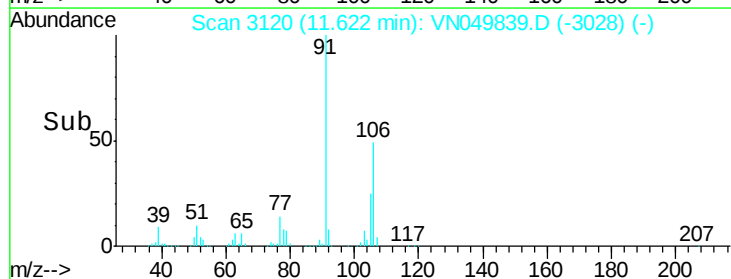
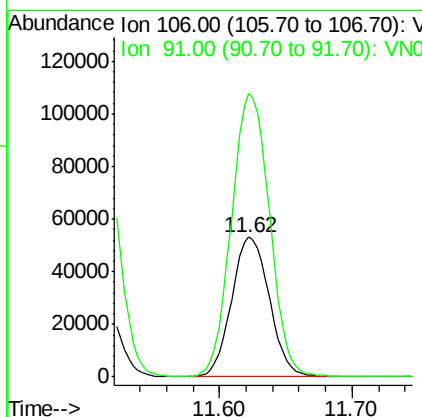
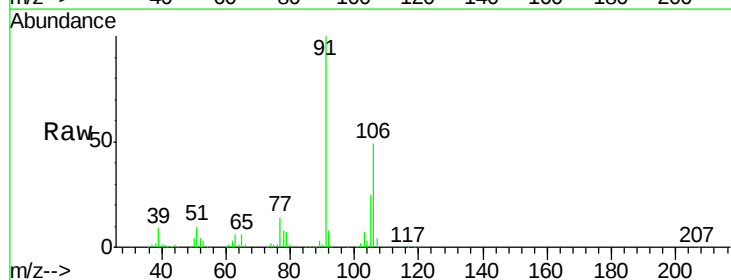
Manual Integrations
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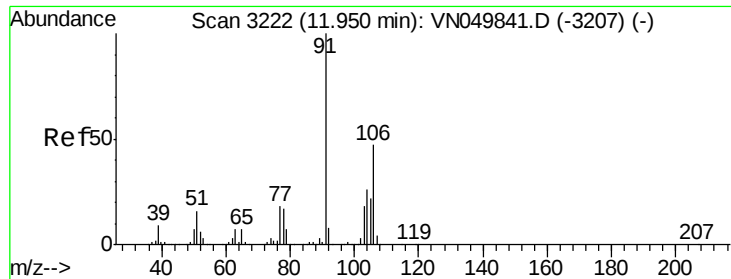
MMDadoda
7/18/2018 11:59:08 AM



#68
m/p-Xylenes
Concen: 8.84 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion: 106 Resp: 105154
Ion Ratio Lower Upper
106 100
91 204.9 163.4 245.2





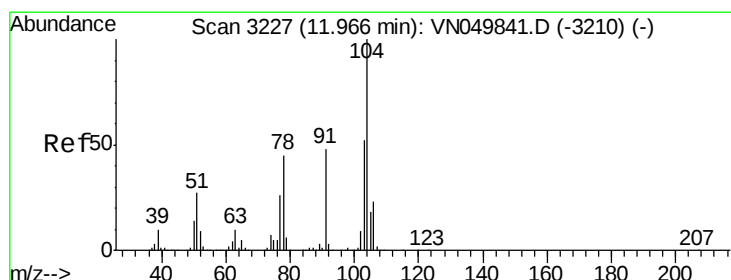
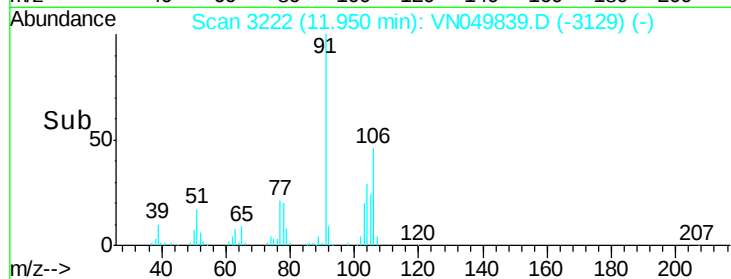
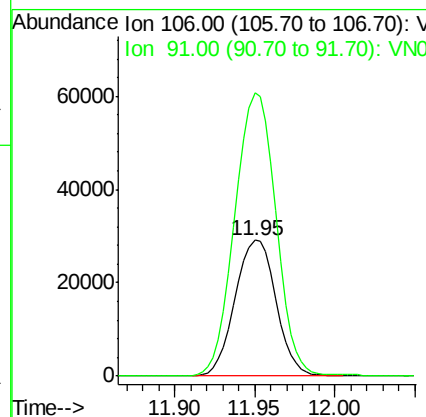
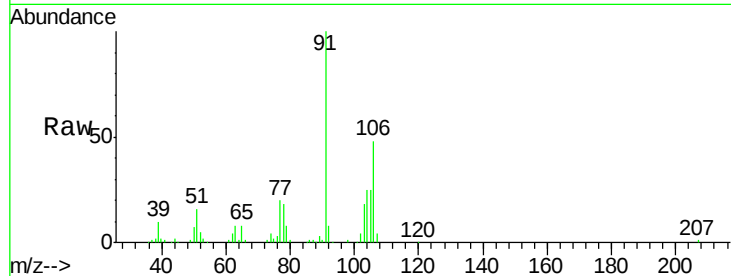
#69
o-Xylene
Concen: 4.50 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.1	108.7	326.1

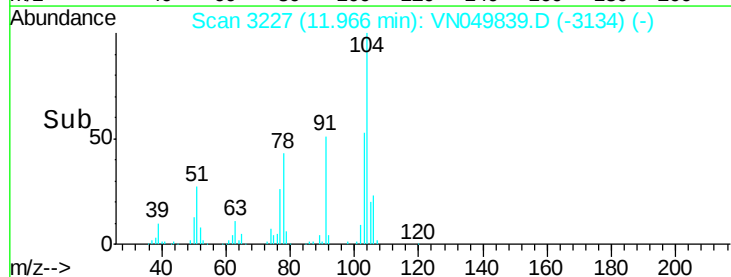
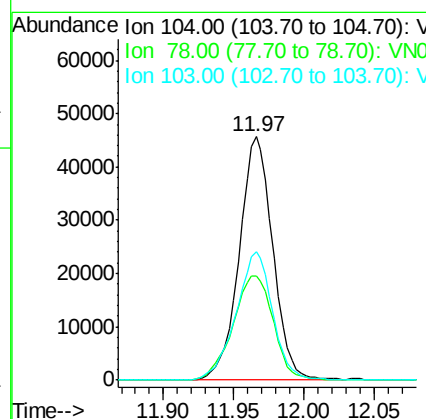
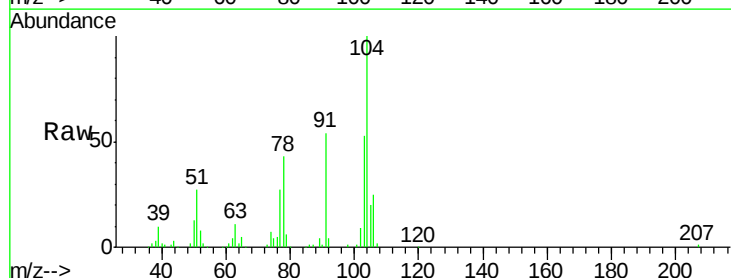
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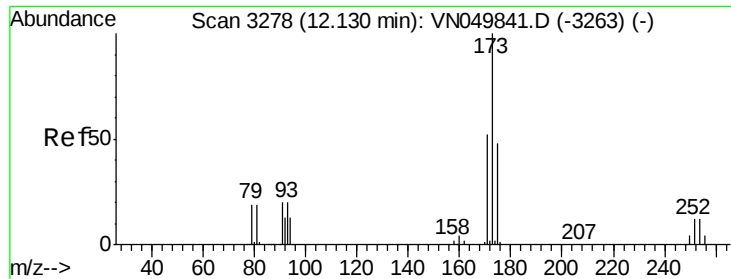
MMDadoda
7/18/2018 11:59:08 AM



#70
Styrene
Concen: 4.13 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.0	39.2	58.8
103	57.1	44.6	67.0





#71

Bromoform

Concen: 4.78 ug/l

RT: 12.13 min Scan# 3278

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:173 Resp: 26907

Ion Ratio Lower Upper

173 100

175 47.3 24.6 73.8

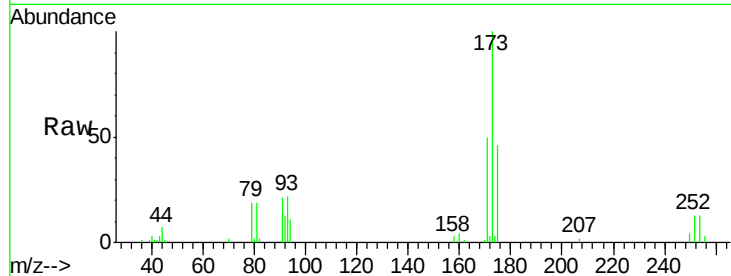
254 0.0 0.2 0.2#

Manual Integrations

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MMDadoda

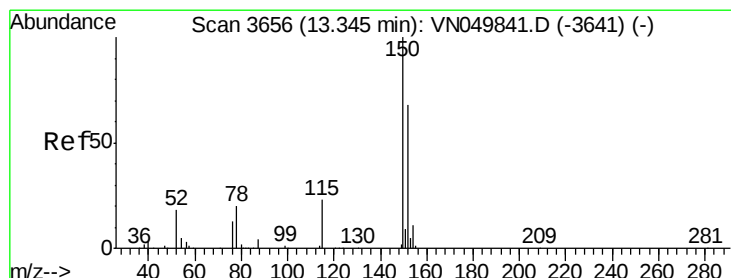
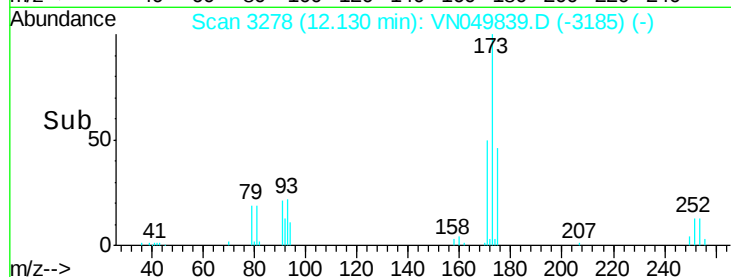
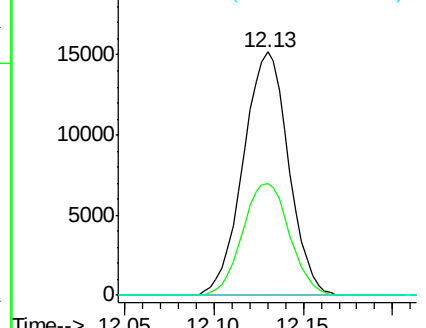
7/18/2018 11:59:08 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

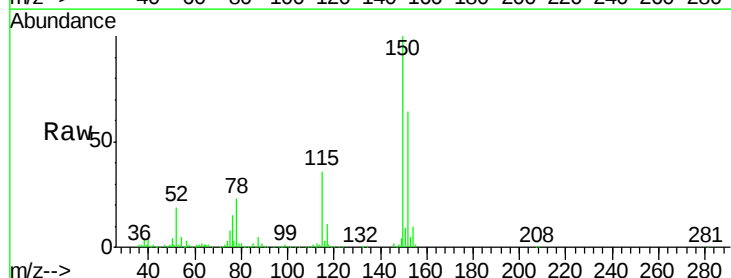
Tgt Ion:152 Resp: 347991

Ion Ratio Lower Upper

152 100

115 55.8 28.1 84.2

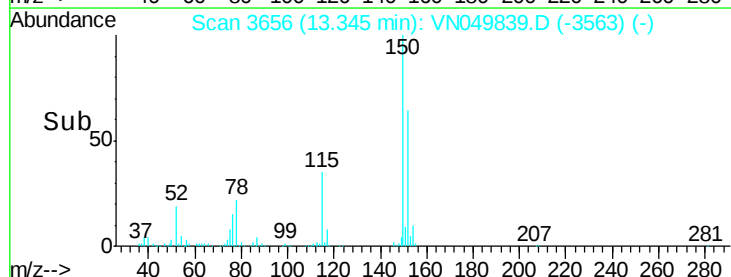
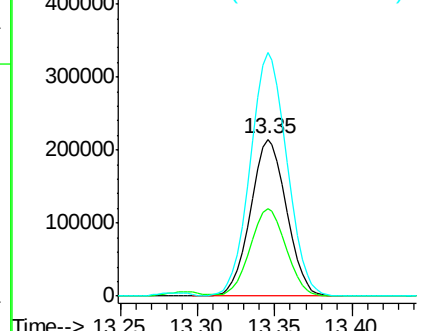
150 158.4 0.0 347.6

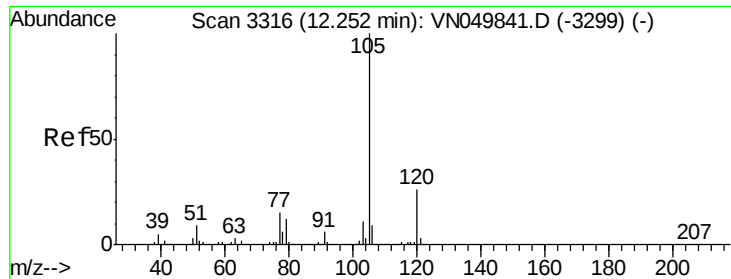


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





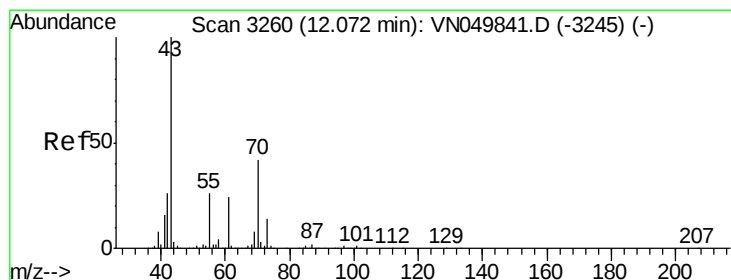
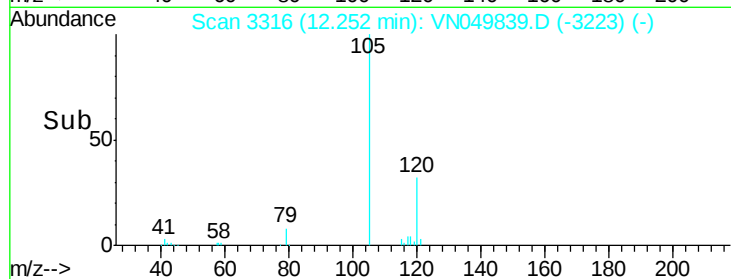
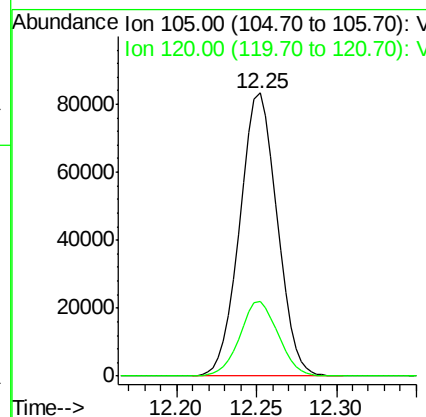
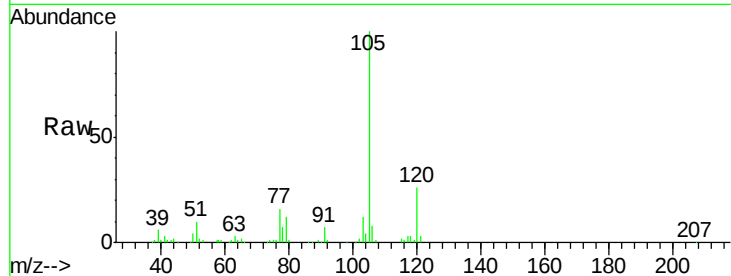
#73
Isopropylbenzene
Concen: 4.78 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.3	39.8

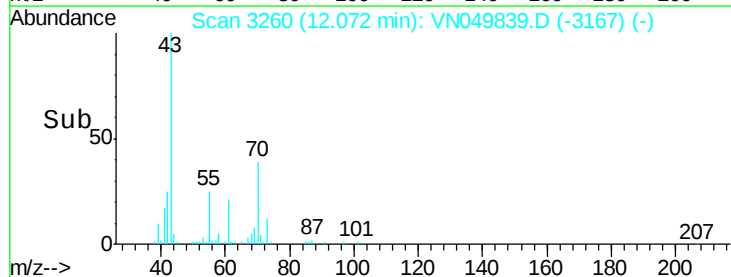
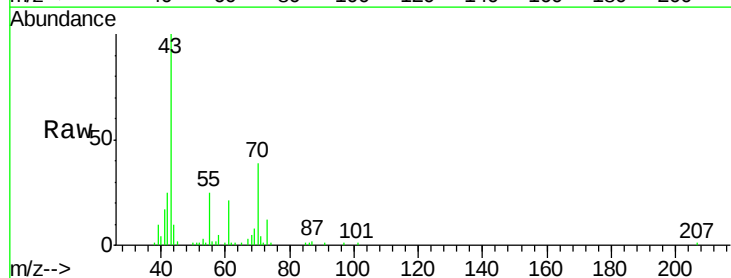
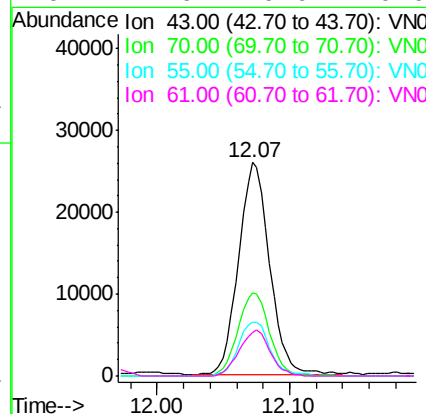
Manual Integrations
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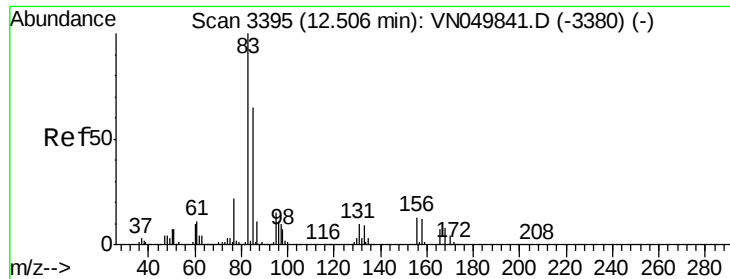
MMDadoda
7/18/2018 11:59:08 AM



#74
N-ethyl acetate
Concen: 4.33 ug/l
RT: 12.07 min Scan# 3260
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
43	100		
70	39.5	34.8	52.2
55	26.2	20.9	31.3
61	21.6	19.9	29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 5.29 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

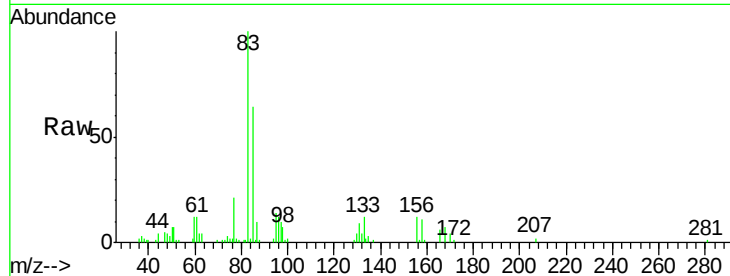
ClientSampled :

VSTDIC005

Tot Ion:	83	Resp:	47580
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.2	15.6
85	63.7	32.5	97.4

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Abundance Ion 82.90 (82.60 to 83.60): VN049839.D (-3302) (-)

Ion 130.80 (130.50 to 131.50): VN049839.D (-3302) (-)

Ion 84.90 (84.60 to 85.60): VN049839.D (-3302) (-)

Time-->

12.51

30000

20000

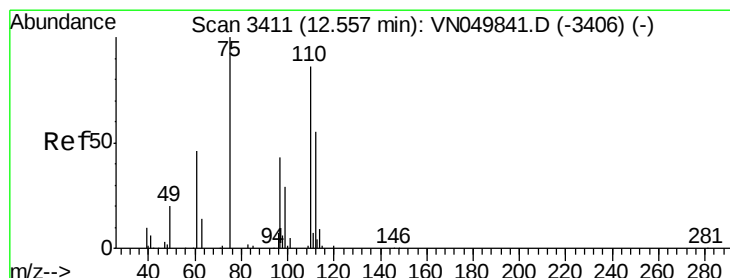
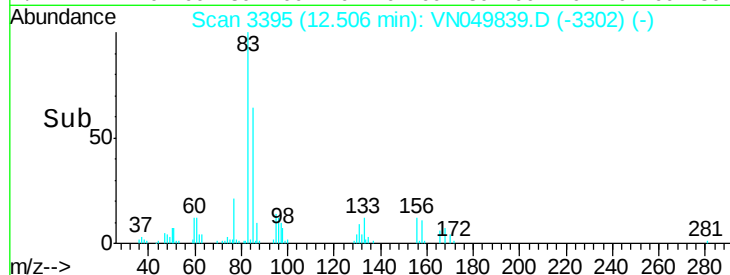
10000

0

12.45

12.50

12.55



#76

1,2,3-Trichloropropane

Concen: 5.11 ug/l m

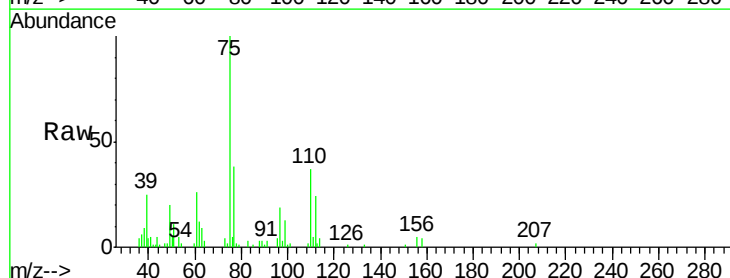
RT: 12.56 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Tgt Ion:	75	Resp:	38352
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN049839.D (-3318) (-)

Ion 77.00 (76.70 to 77.70): VN049839.D (-3318) (-)

Time-->

12.56

40000

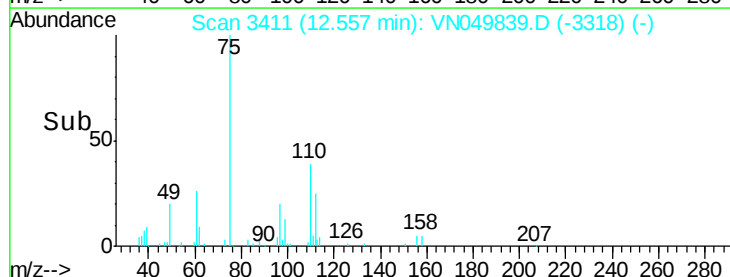
30000

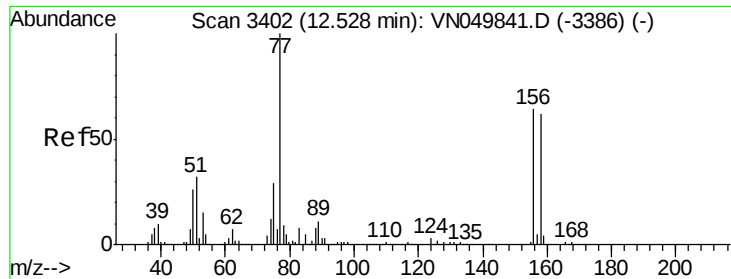
20000

10000

0

12.55





#77

Bromobenzene

Concen: 5.05 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 38031

Ion Ratio Lower Upper

156 100

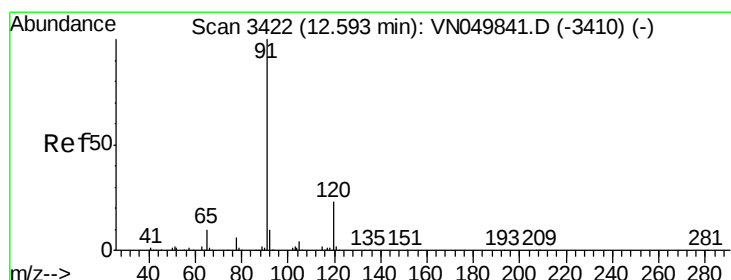
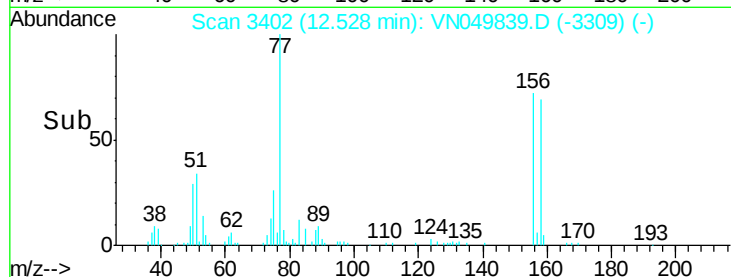
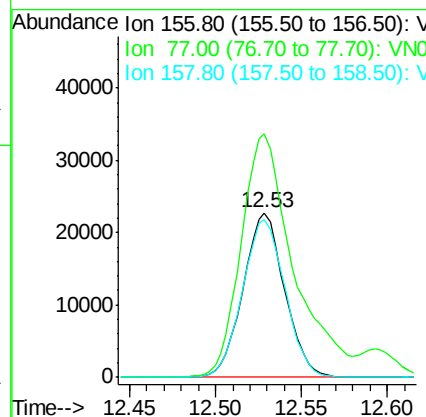
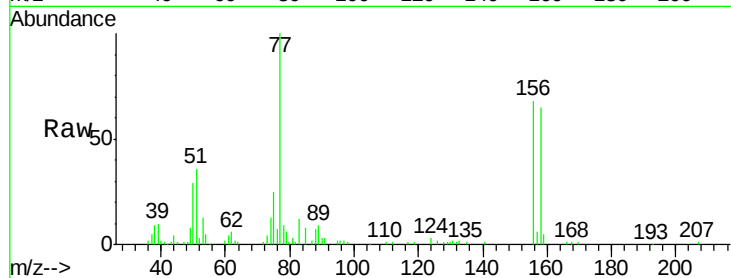
77 187.7 90.2 270.6

158 98.1 49.1 147.3

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#78

n-propylbenzene

Concen: 4.62 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049839.D

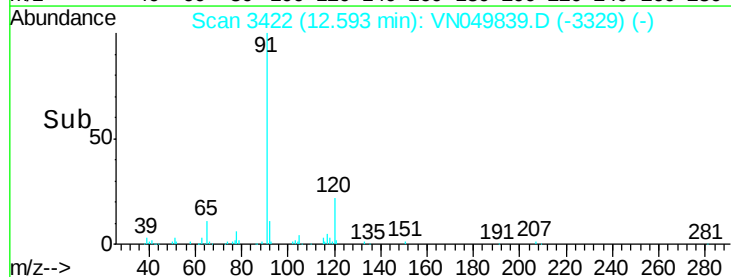
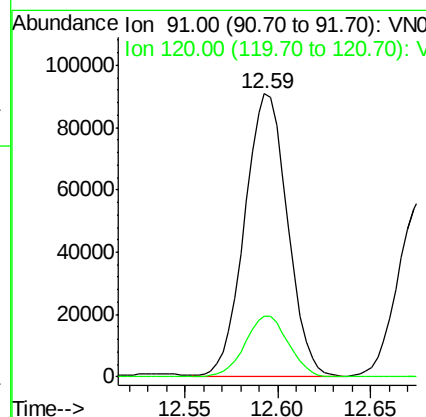
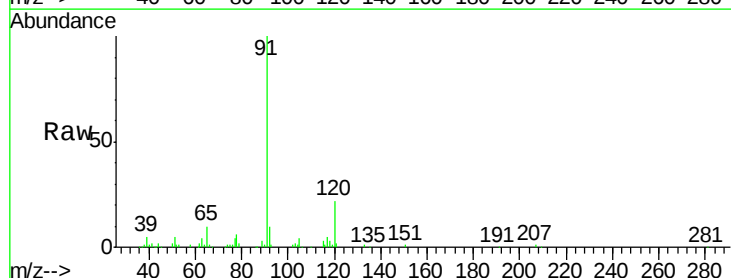
Acq: 17 Jul 2018 11:03

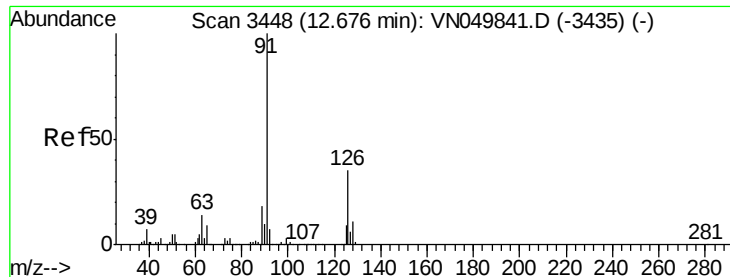
Tgt Ion: 91 Resp: 144953

Ion Ratio Lower Upper

91 100

120 21.9 11.5 34.4





#79

2-Chlorotoluene

Concen: 4.85 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 94362

Ion Ratio Lower Upper

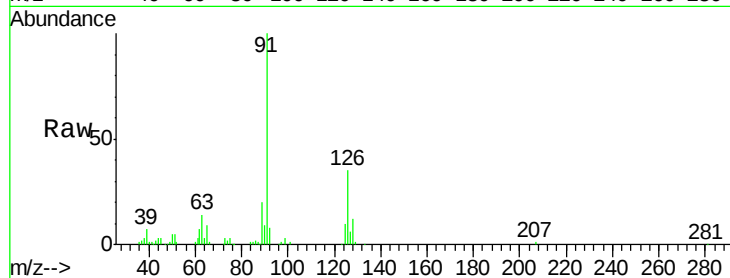
91 100

126 35.8 17.5 52.5

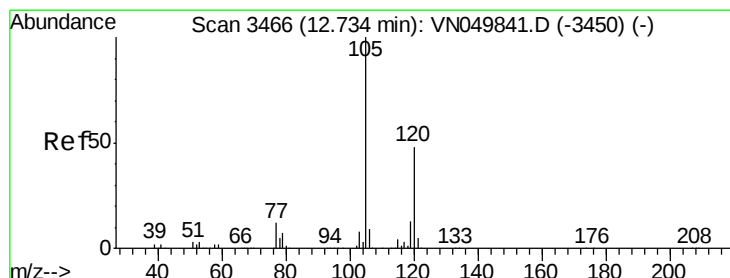
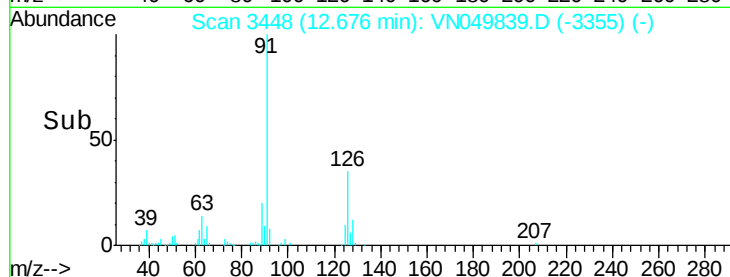
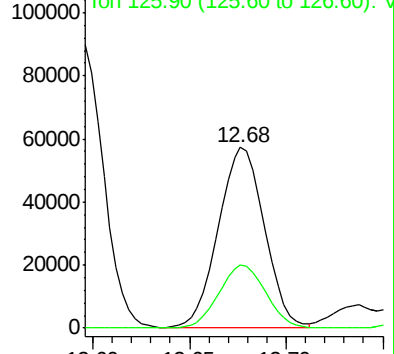
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN049841.D (-3435) (-)



#80

1,3,5-Trimethylbenzene

Concen: 4.64 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049839.D

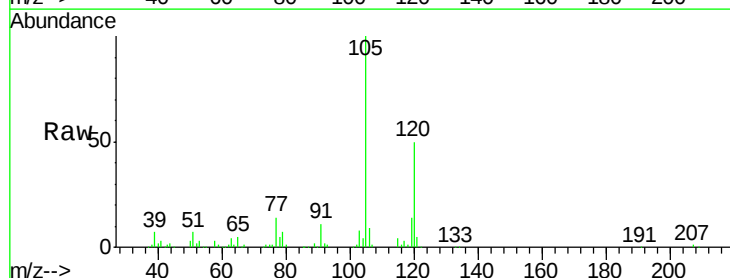
Acq: 17 Jul 2018 11:03

Tgt Ion: 105 Resp: 101763

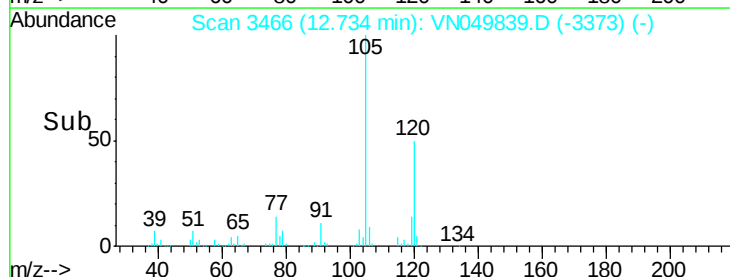
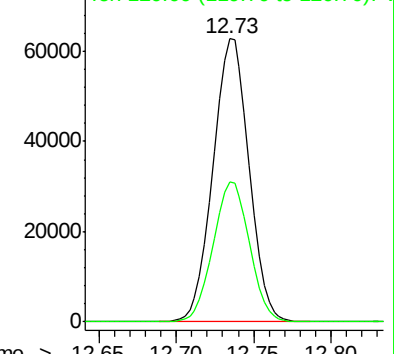
Ion Ratio Lower Upper

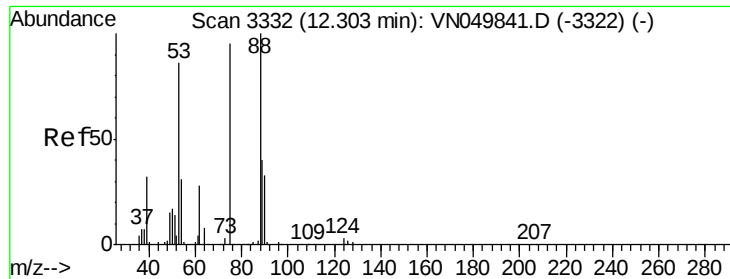
105 100

120 49.9 24.3 72.8



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





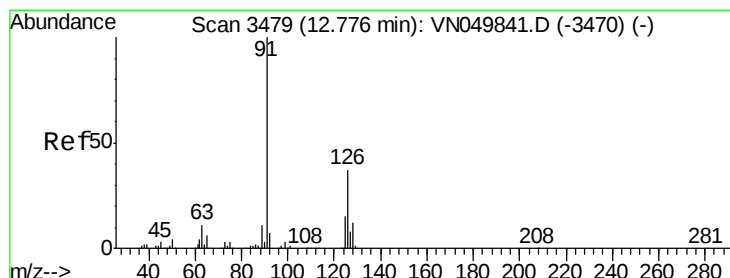
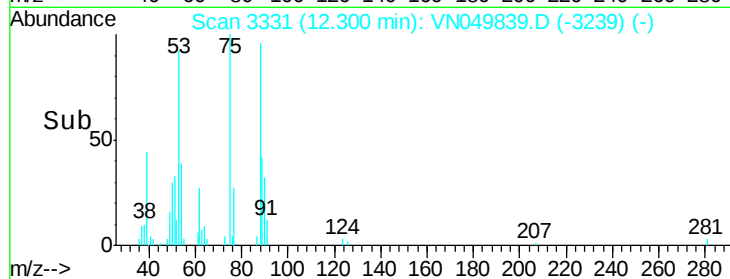
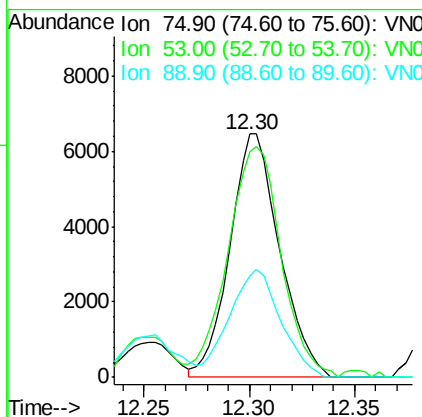
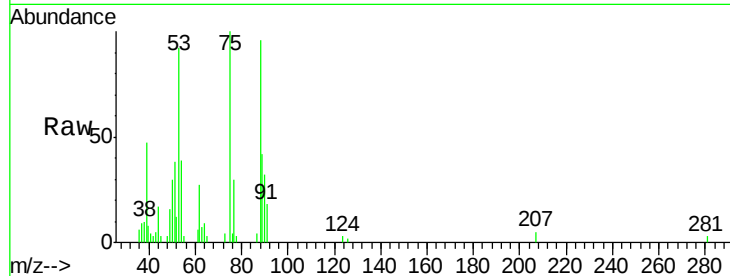
#81
trans-1,4-Dichloro-2-butene
Concen: 4.45 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.5	73.9	110.9
89	45.9	35.9	53.9

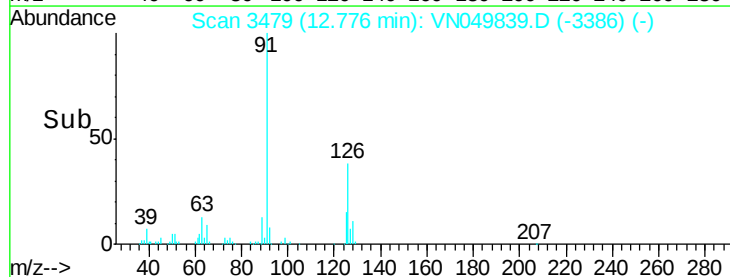
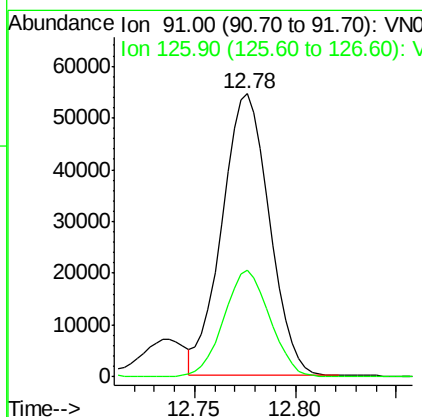
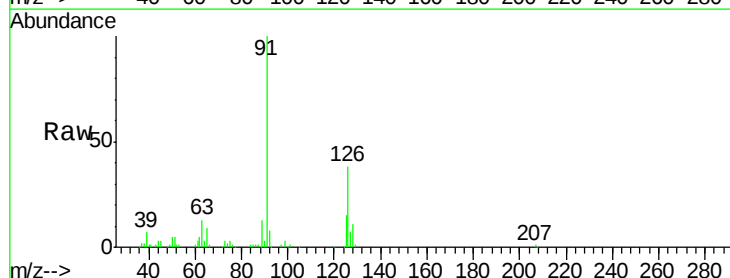
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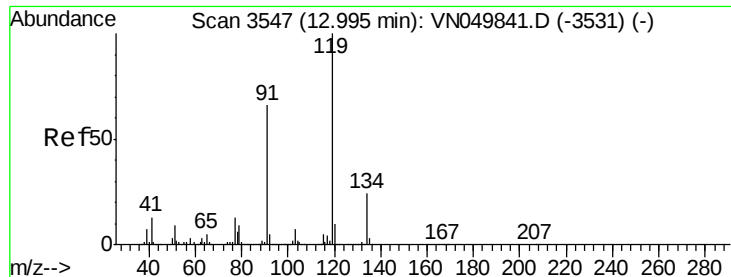
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7/18/2018 11:59:08 AM



#82
4-Chlorotoluene
Concen: 4.54 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.8	17.2	51.6





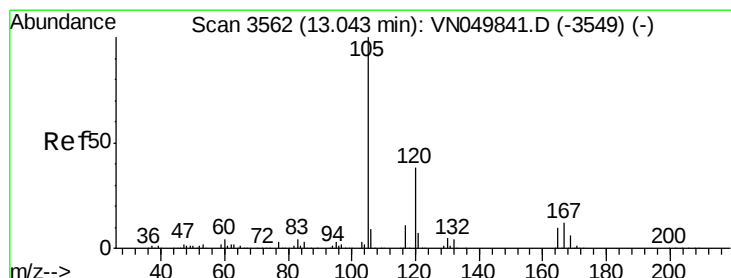
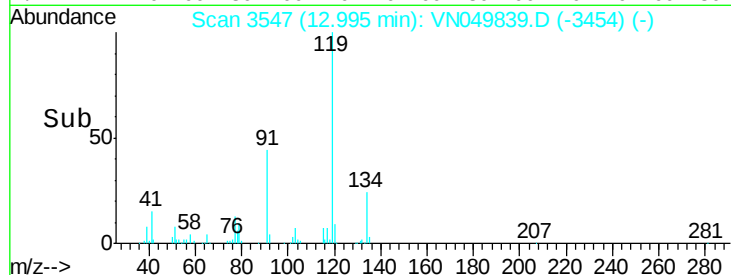
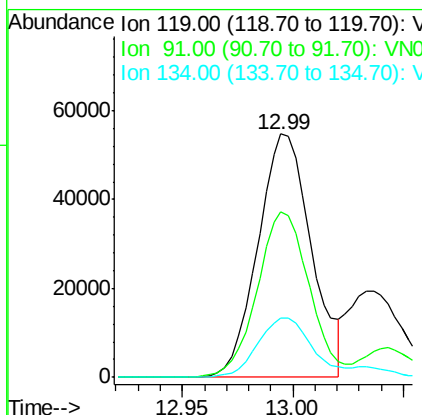
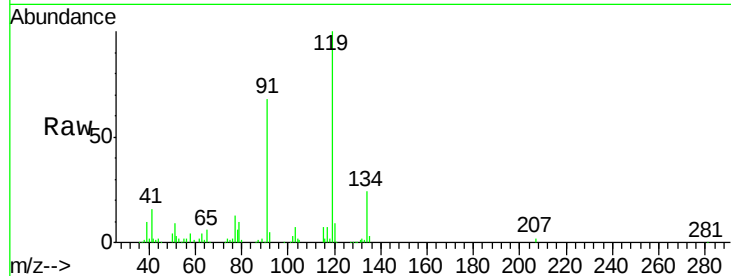
#83
tert-Butylbenzene
Concen: 4.74 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.9	32.0	96.2
134	24.6	12.8	38.4

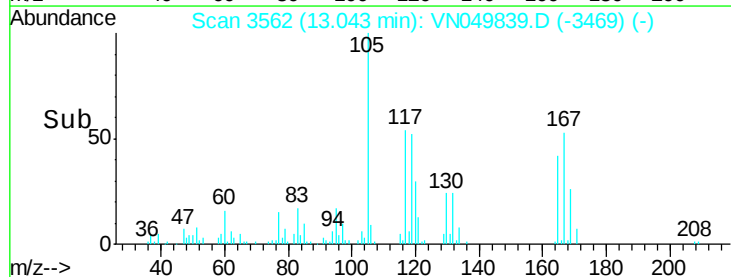
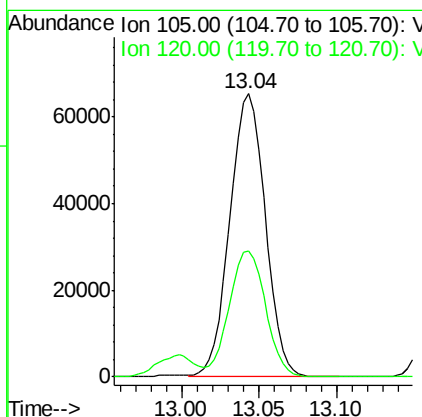
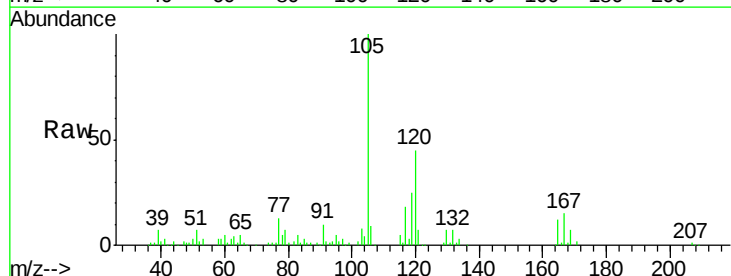
Manual Integrations
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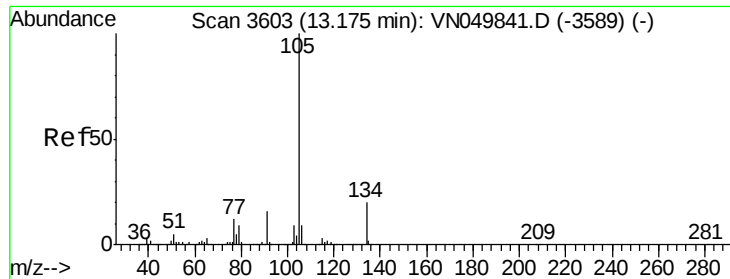
MMDadoda
7/18/2018 11:59:08 AM



#84
1,2,4-Trimethylbenzene
Concen: 4.66 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.7	68.1





#85

sec-Butylbenzene

Concen: 4.75 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:105 Resp: 122608

Ion Ratio Lower Upper

105 100

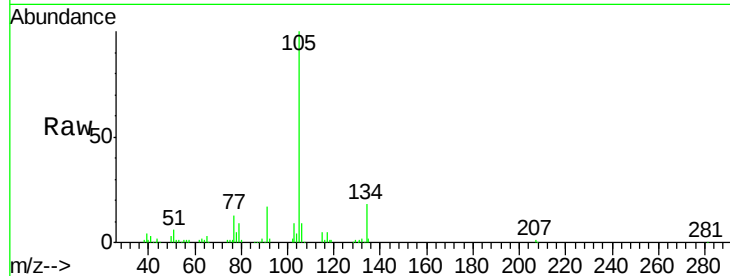
134 19.7 10.1 30.1

Manual Integrations

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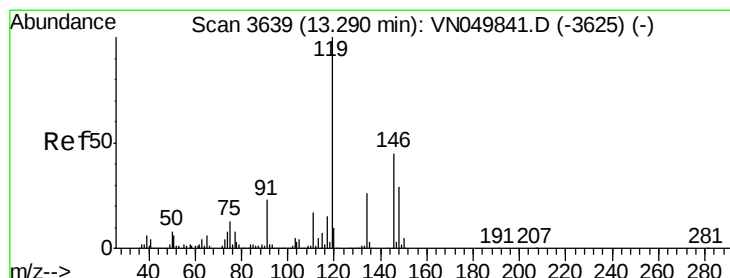
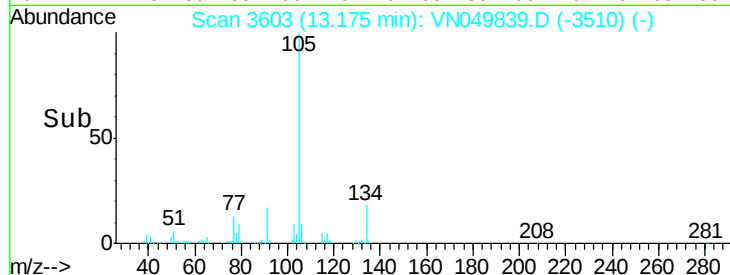
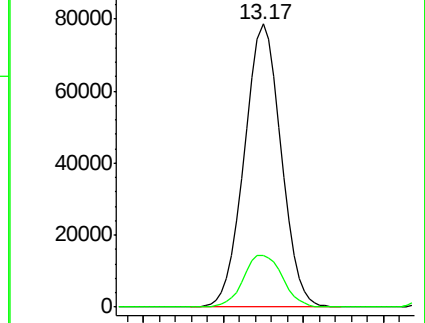
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.46 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049839.D

Acq: 17 Jul 2018 11:03

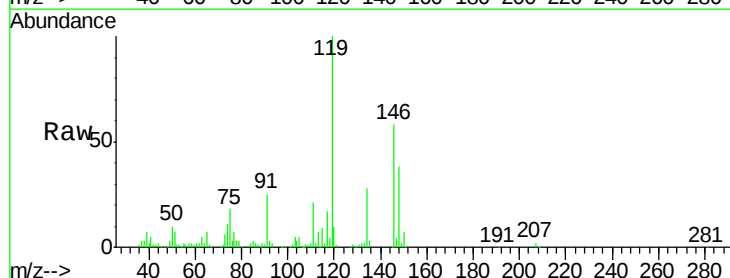
Tgt Ion:119 Resp: 98117

Ion Ratio Lower Upper

119 100

134 27.1 13.3 39.9

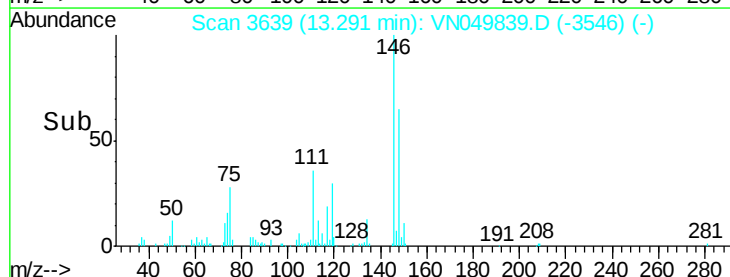
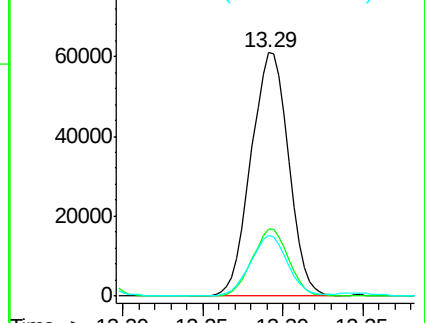
91 24.7 11.4 34.1

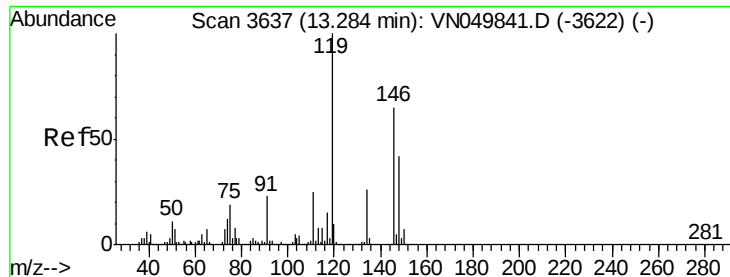


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





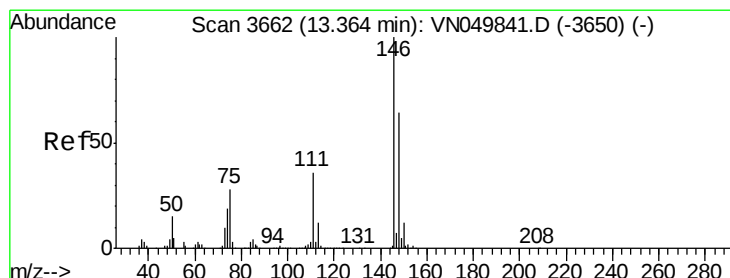
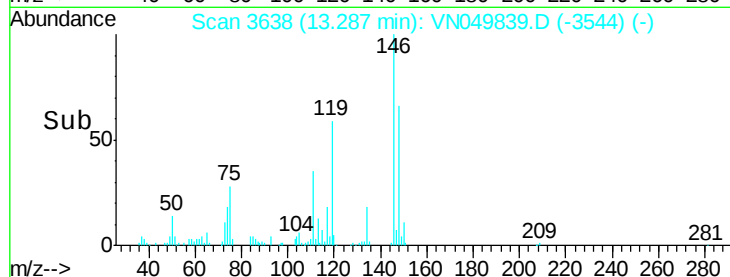
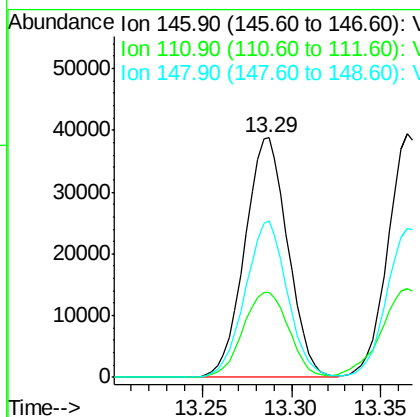
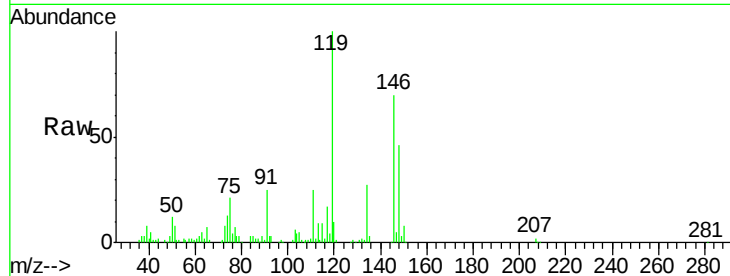
#87
 1,3-Dichlorobenzene
 Concen: 4.90 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.0	57.0
148	64.1	32.5	97.5

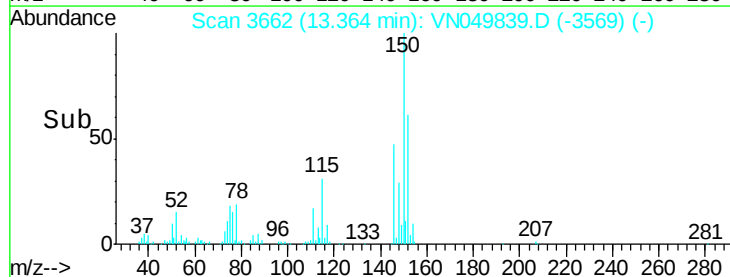
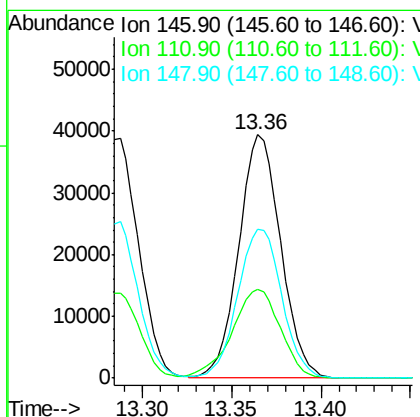
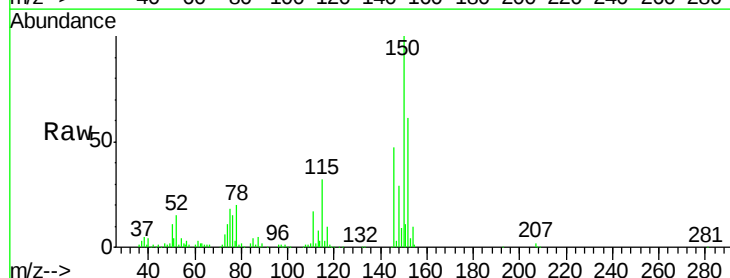
Manual Integrations
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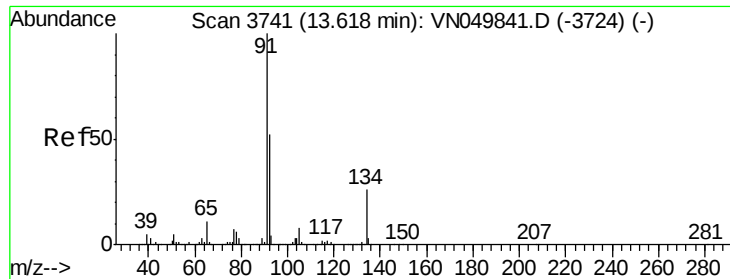
MMDadoda
 7/18/2018 11:59:08 AM



#88
 1,4-Dichlorobenzene
 Concen: 4.78 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.1	18.9	56.5
148	64.5	32.1	96.3





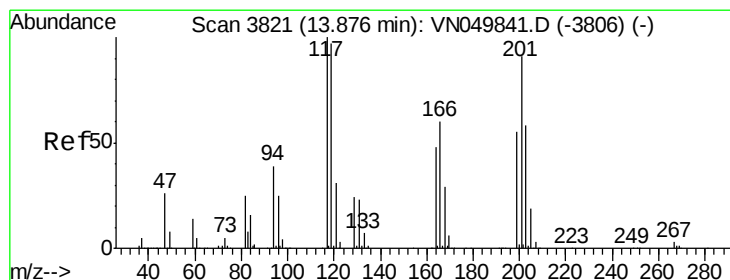
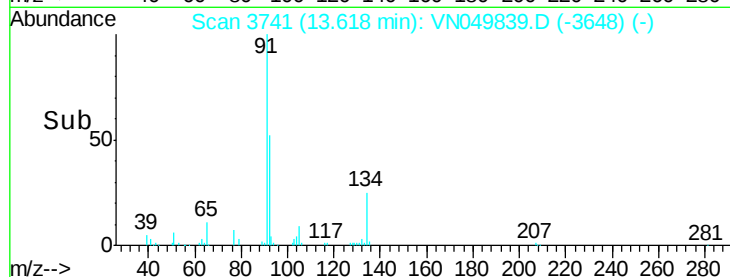
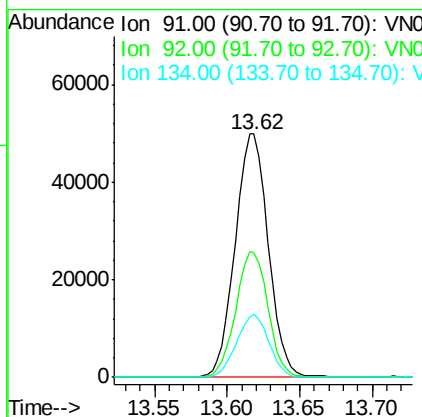
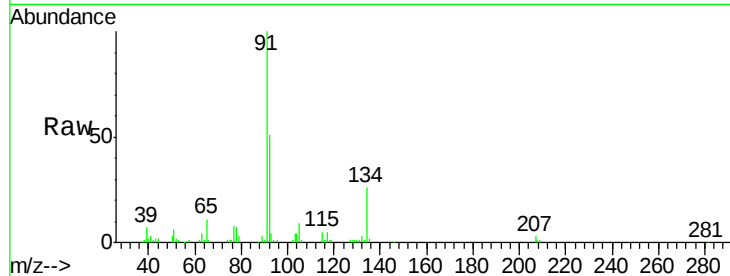
#89
n-Butylbenzene
Concen: 4.28 ug/l
RT: 13.62 min Scan# 3741
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.0	25.8	77.3
134	24.9	13.0	38.9

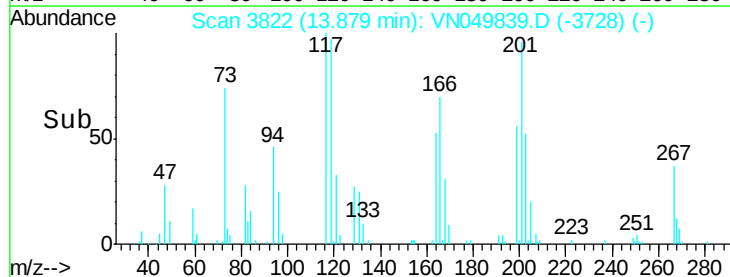
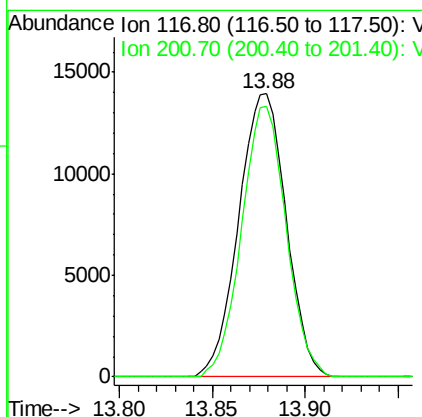
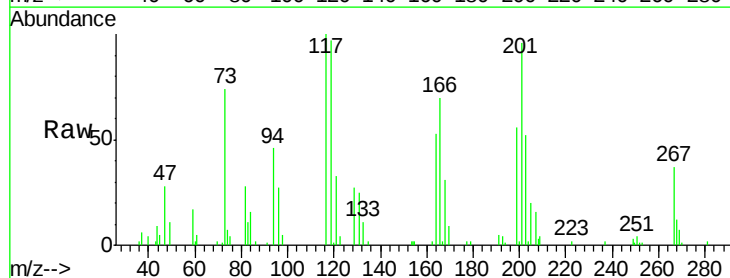
Manual Integrations
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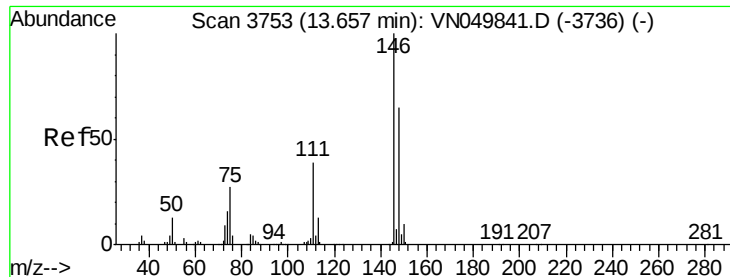
MMDadoda
7/18/2018 11:59:08 AM



#90
Hexachloroethane
Concen: 5.33 ug/l
RT: 13.88 min Scan# 3822
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
117	100		
201	89.7	45.3	135.8





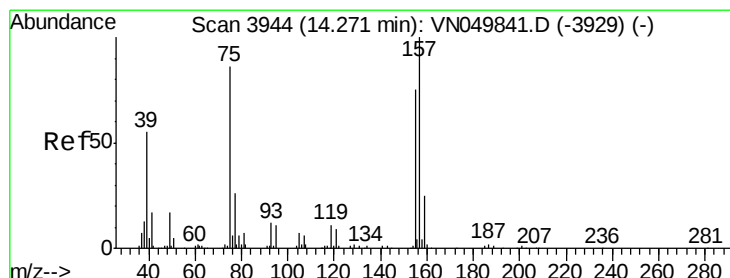
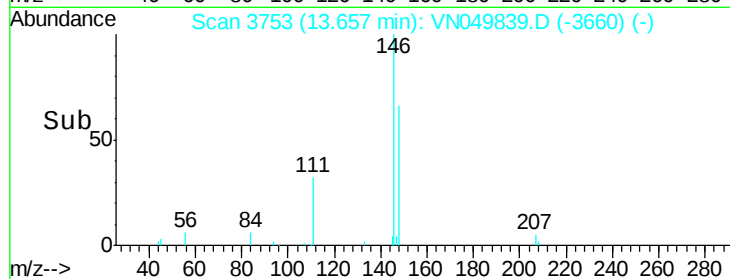
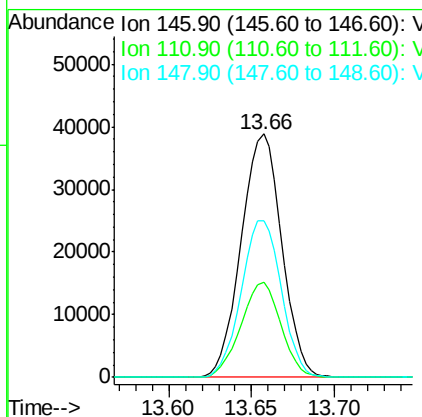
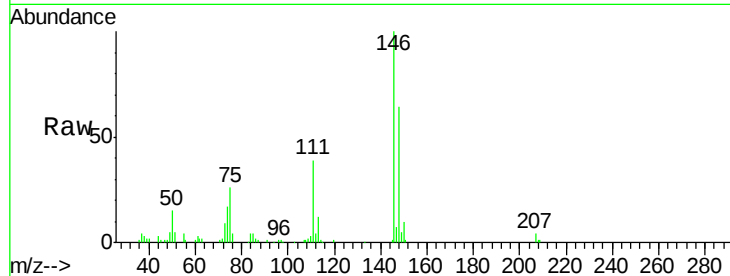
#91
 1,2-Dichlorobenzene
 Concen: 5.02 ug/l
 RT: 13.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.7	59.1
148	63.4	32.0	96.2

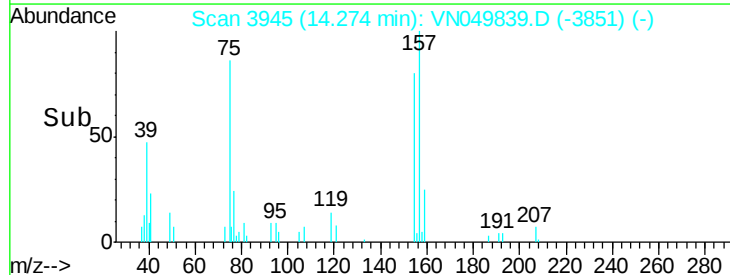
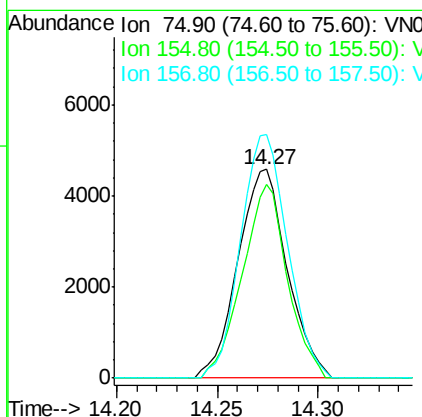
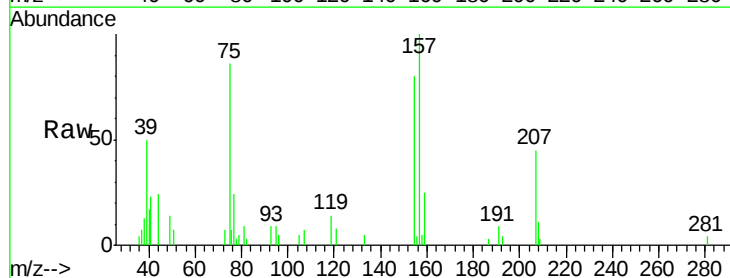
Manual Integrations
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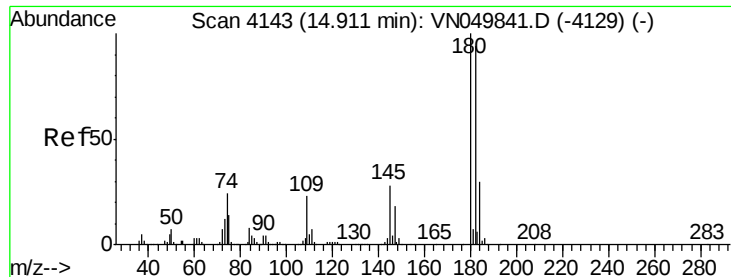
MMDadoda
 7/18/2018 11:59:08 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.95 ug/l
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN049839.D
 Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.7	45.7	137.1
157	111.4	56.9	170.7





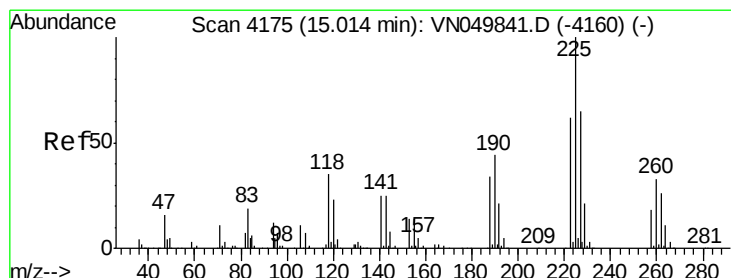
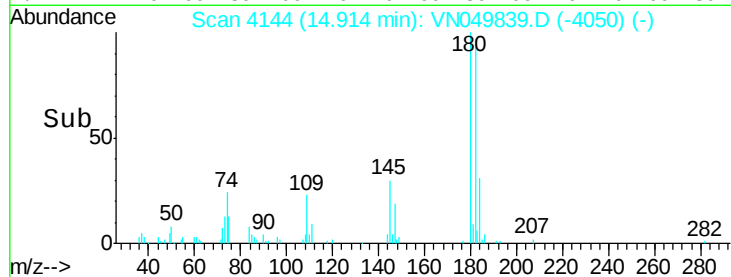
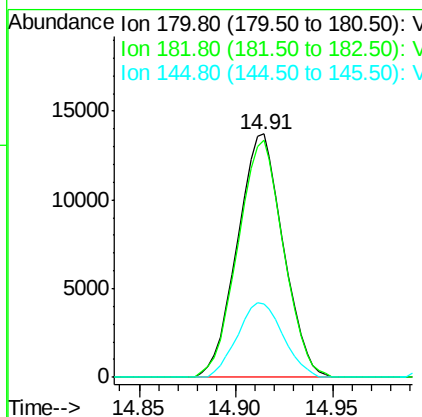
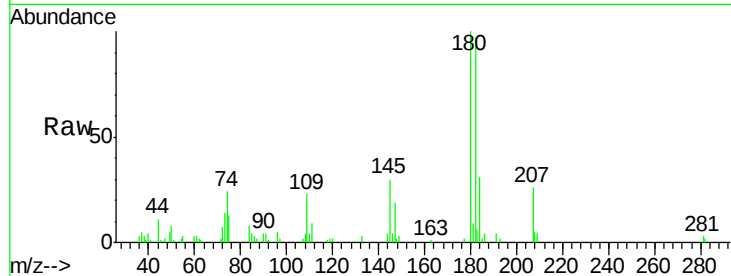
#93
1,2,4-Trichlorobenzene
Concen: 3.37 ug/l
RT: 14.91 min Scan# 4144
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.3	141.9
145	30.6	14.4	43.0

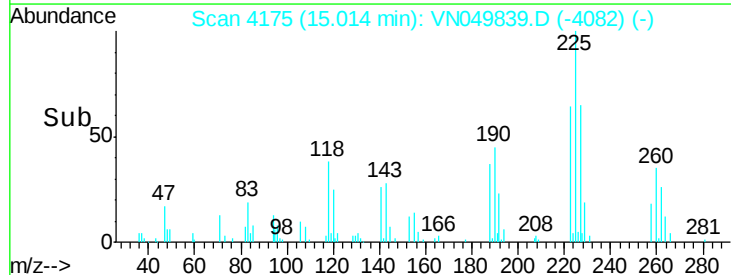
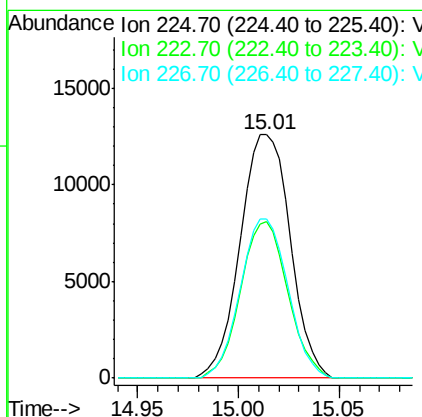
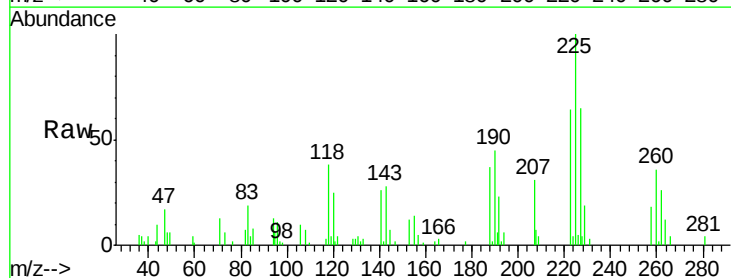
Manual Integrations
APPROVED

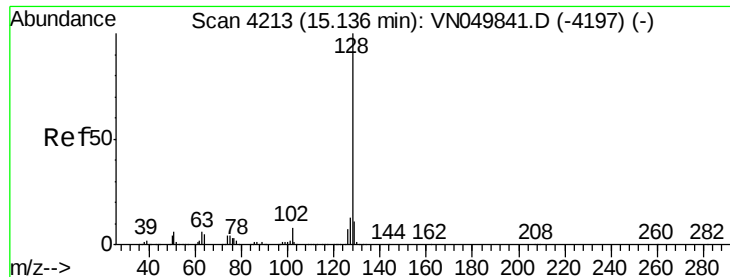
MMDadoda
7/18/2018 11:59:08 AM



#94
Hexachlorobutadiene
Concen: 5.34 ug/l
RT: 15.01 min Scan# 4175
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.6	30.9	92.7
227	62.2	31.8	95.4





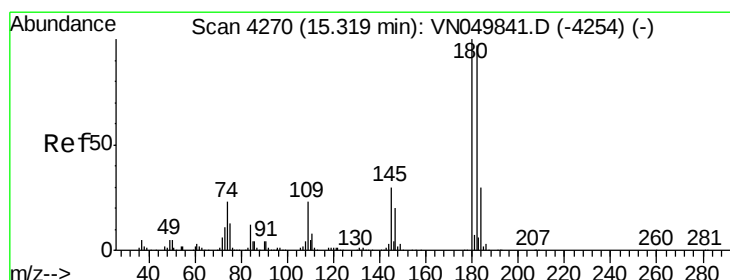
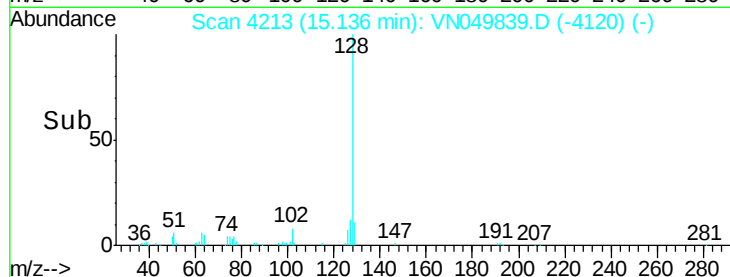
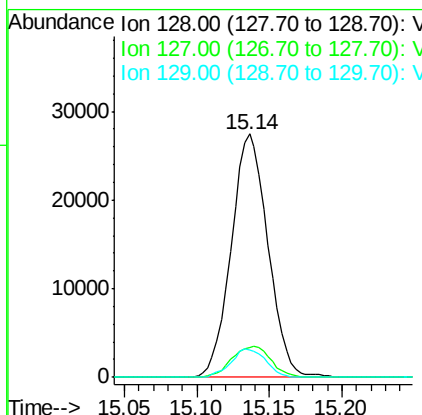
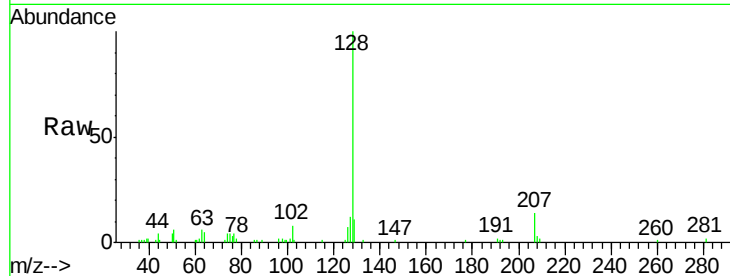
#95
Naphthalene
Concen: 2.89 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.4	15.6
129	11.1	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
7/18/2018 11:59:08 AM



#96
1,2,3-Trichlorobenzene
Concen: 3.63 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. -0.00 min
Lab File: VN049839.D
Acq: 17 Jul 2018 11:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.4	142.2
145	31.1	15.2	45.6

