

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011519\
 Data File : VN053396.D
 Acq On : 15 Jan 2019 9:16
 Operator : JC/SP
 Sample : VSTDIC001
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 1/16/2019 9:50:34 AM

Quant Time: Jan 16 02:58:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 15 11:52:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	934378	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1399593	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1257362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	570772	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.00	65	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	0.00	98	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
62) 4-Bromofluorobenzene	0.00	95	0d	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	6987	0.930 ug/l	93
3) Chloromethane	2.06	50	10953	1.020 ug/l	95
4) Vinyl Chloride	2.19	62	10168	0.982 ug/l	100
5) Bromomethane	2.57	94	7470	1.052 ug/l	100
6) Chloroethane	2.71	64	6204	0.991 ug/l #	87
7) Trichlorofluoromethane	3.03	101	13255	0.979 ug/l	99
8) Diethyl Ether	3.42	74	4309	0.847 ug/l	81
9) 1,1,2-Trichlorotrifluoroet	3.77	101	8419	0.982 ug/l	95
12) 1,1-Dichloroethene	3.74	96	8074	0.971 ug/l	93
14) Allyl chloride	4.33	41	12175	0.901 ug/l	97
15) Acrylonitrile	4.99	53	12135	4.080 ug/l #	93
16) Acetone	3.82	43	11738	5.417 ug/l #	87
17) Carbon Disulfide	4.06	76	24595	0.978 ug/l	99
18) Methyl Acetate	4.33	43	7286	0.998 ug/l #	86
19) Methyl tert-butyl Ether	5.04	73	19159	0.867 ug/l	99
20) Methylene Chloride	4.55	84	10006	1.011 ug/l	89
21) trans-1,2-Dichloroethene	5.04	96	8430	0.948 ug/l	96
22) Diisopropyl ether	5.95	45	25214	0.894 ug/l #	88
23) Vinyl Acetate	5.90	43	69263	3.994 ug/l	97
24) 1,1-Dichloroethane	5.85	63	15898	0.953 ug/l	99
25) 2-Butanone	6.84	43	14415	4.317 ug/l	99
26) 2,2-Dichloropropane	6.83	77	11649	0.925 ug/l #	75
27) cis-1,2-Dichloroethene	6.84	96	9300m	0.914 ug/l	
28) Bromochloromethane	7.20	49	7727	1.052 ug/l #	96
29) Tetrahydrofuran	7.21	42	9581	4.408 ug/l	90
30) Chloroform	7.37	83	15154	0.933 ug/l	98
31) Cyclohexane	7.66	56	27858	1.500 ug/l #	23
32) 1,1,1-Trichloroethane	7.57	97	13011	0.944 ug/l #	51
36) 1,1-Dichloropropene	7.80	75	11685	0.917 ug/l	97
37) Ethyl Acetate	6.94	43	6607m	0.894 ug/l	
38) Carbon Tetrachloride	7.77	117	11690	0.969 ug/l	98
39) Methylcyclohexane	9.08	83	14808	0.940 ug/l	93
40) Benzene	8.04	78	36365	0.939 ug/l	99
41) Methacrylonitrile	7.17	41	2763	0.604 ug/l #	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-Dichloroethane	8.12	62	10560	0.936	ug/l	99
43) Isopropyl Acetate	8.16	43	9732	0.707	ug/l #	91
44) Trichloroethene	8.84	130	10246	0.954	ug/l	99
45) 1,2-Dichloropropane	9.12	63	9939	0.969	ug/l	95
46) Dibromomethane	9.21	93	5805	0.985	ug/l	93
47) Bromodichloromethane	9.40	83	11773	0.950	ug/l	92
48) Methyl methacrylate	9.20	41	5901	0.867	ug/l	96
49) 1,4-Dioxane	9.19	88	1339	20.138	ug/l #	89
51) 4-Methyl-2-Pentanone	9.99	43	29204	4.057	ug/l	94
52) Toluene	10.15	92	21821	0.907	ug/l	96
53) t-1,3-Dichloropropene	10.38	75	10443	0.831	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	12972	0.881	ug/l #	90
55) 1,1,2-Trichloroethane	10.56	97	7268	0.877	ug/l	91
56) Ethyl methacrylate	10.43	69	7944	2.705	ug/l #	96
57) 1,3-Dichloropropane	10.71	76	12618	0.880	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.69	63	24322	4.194	ug/l	99
59) 2-Hexanone	10.75	43	22170	4.387	ug/l	90
60) Dibromochloromethane	10.90	129	8469	0.901	ug/l	99
61) 1,2-Dibromoethane	11.01	107	7120	0.849	ug/l	94
64) Tetrachloroethene	10.63	164	12543	1.059	ug/l	92
65) Chlorobenzene	11.43	112	24941	0.937	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	8806	0.951	ug/l #	65
67) Ethyl Benzene	11.51	91	41433	0.913	ug/l	94
68) m/p-Xylenes	11.62	106	29603	1.729	ug/l	94
69) o-Xylene	11.95	106	14466	0.869	ug/l	98
70) Styrene	11.96	104	21500	0.796	ug/l	97
71) Bromoform	12.13	173	5092	0.799	ug/l #	96
73) Isopropylbenzene	12.25	105	37462	0.896	ug/l	97
74) N-amyl acetate	12.07	43	9628	0.864	ug/l	95
75) 1,1,2,2-Tetrachloroethane	12.51	83	8173	0.932	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	6886m	0.958	ug/l	
77) Bromobenzene	12.53	156	10091	0.916	ug/l	97
78) n-propylbenzene	12.59	91	42449	0.885	ug/l	100
79) 2-Chlorotoluene	12.67	91	26810	0.943	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	29093	0.855	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	1936	3.152	ug/l #	77
82) 4-Chlorotoluene	12.77	91	25653	0.885	ug/l	98
83) tert-Butylbenzene	12.99	119	25784	0.858	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	28672	0.836	ug/l	96
85) sec-Butylbenzene	13.17	105	35305	0.857	ug/l	99
86) p-Isopropyltoluene	13.29	119	30152	0.843	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	17728	0.915	ug/l	96
88) 1,4-Dichlorobenzene	13.36	146	19554m	1.006	ug/l	
89) n-Butylbenzene	13.61	91	26434	0.867	ug/l	98
90) Hexachloroethane	13.88	117	4863	0.867	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	16658	0.935	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	972	0.874	ug/l	88
93) 1,2,4-Trichlorobenzene	14.91	180	5289	3.402	ug/l	98
94) Hexachlorobutadiene	15.01	225	5368	0.965	ug/l	92
95) Naphthalene	15.13	128	7167	4.417	ug/l	99

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VSTDICC001

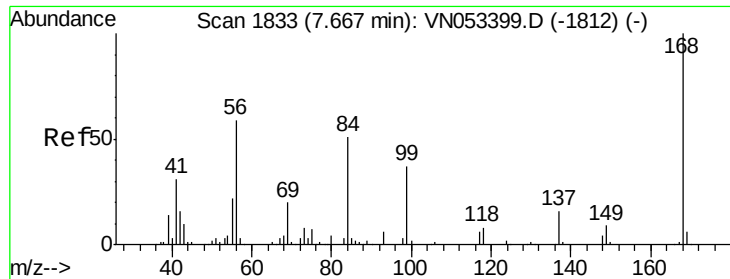
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2,3-Trichlorobenzene	15.31	180	3533	4.470	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion:168 Resp: 934378

Ion Ratio Lower Upper

168 100

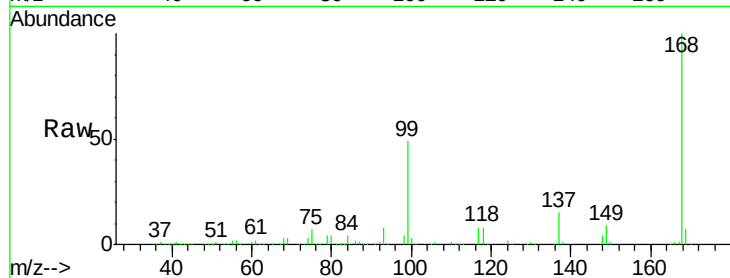
99 49.2 39.1 58.7

Manual Integrations

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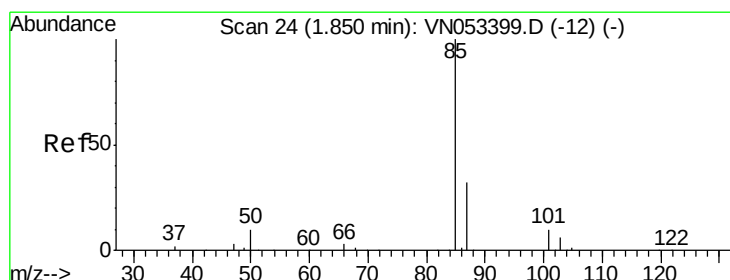
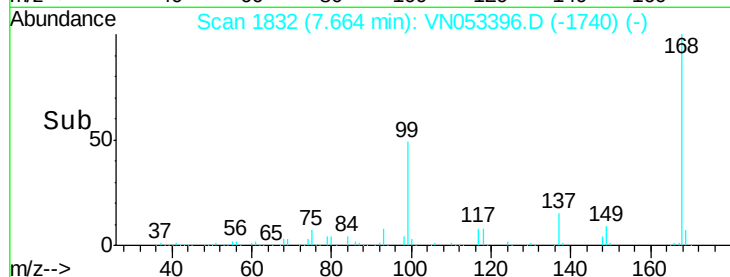
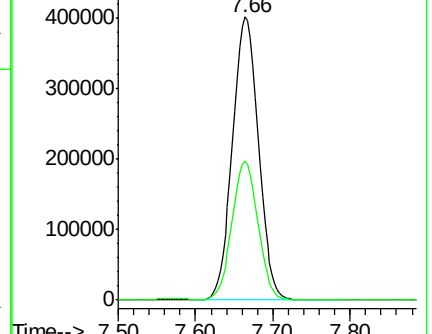
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 0.930 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053396.D

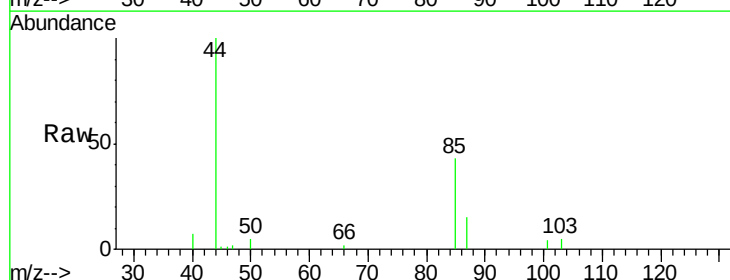
Acq: 15 Jan 2019 9:16

Tgt Ion: 85 Resp: 6987

Ion Ratio Lower Upper

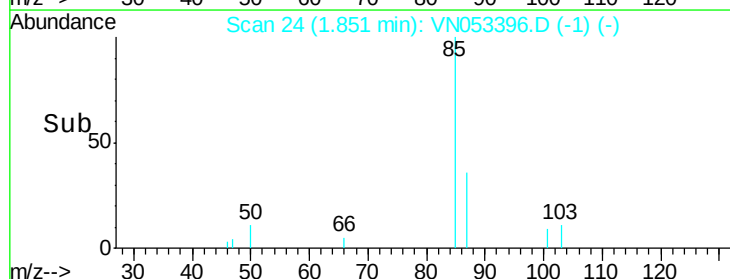
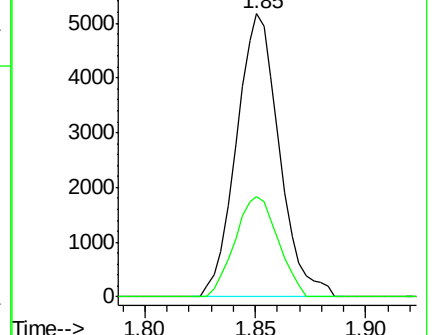
85 100

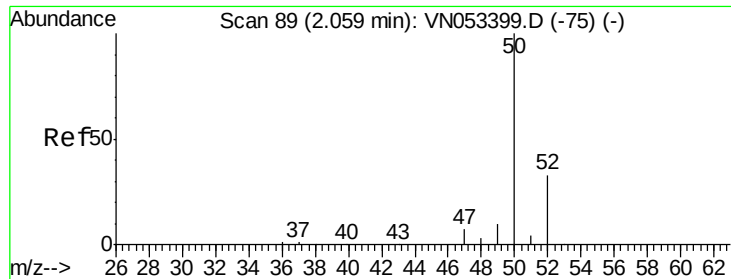
87 35.6 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 1.020 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 50 Resp: 10953

Ion Ratio Lower Upper

50 100

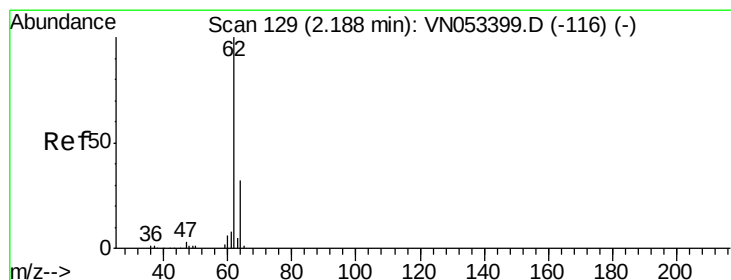
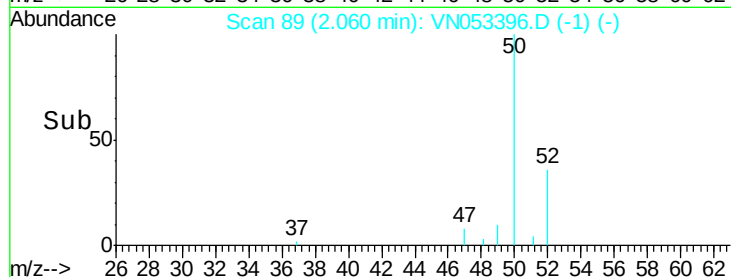
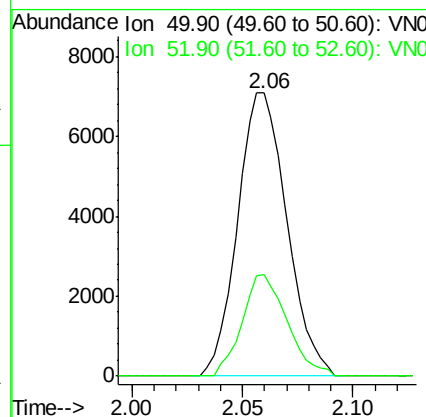
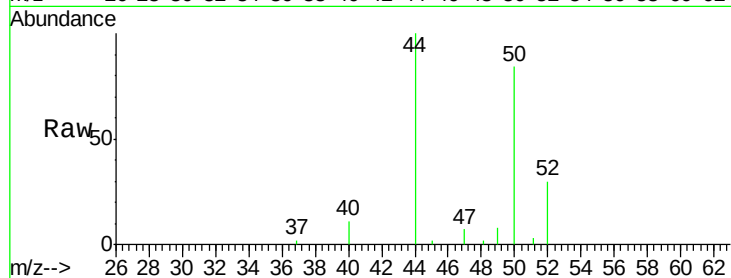
52 35.9 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 0.982 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN053396.D

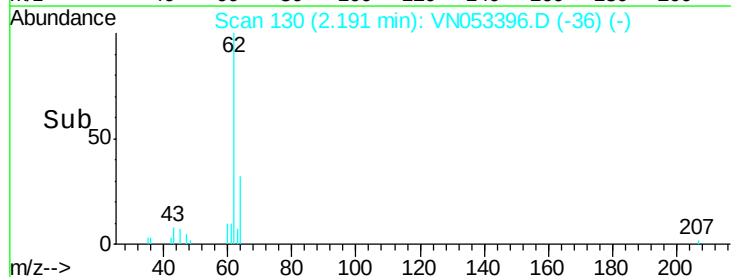
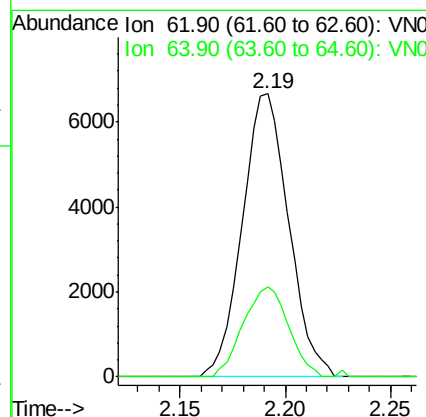
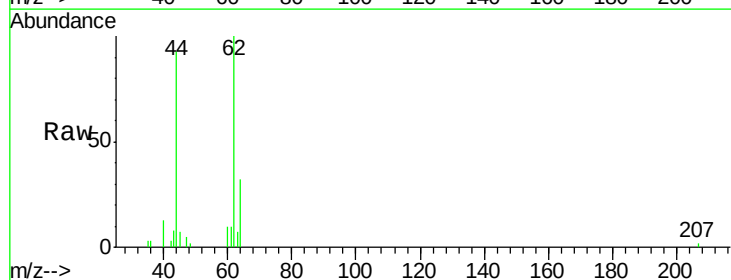
Acq: 15 Jan 2019 9:16

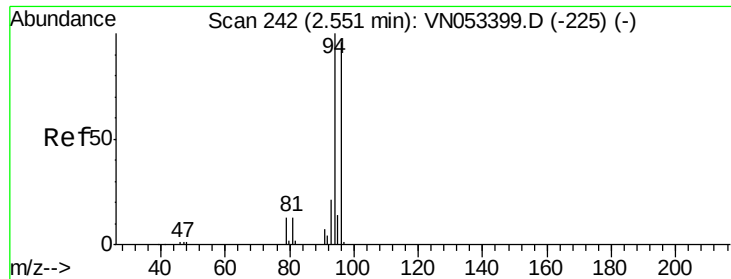
Tgt Ion: 62 Resp: 10168

Ion Ratio Lower Upper

62 100

64 32.0 25.6 38.4





#5

Bromomethane

Concen: 1.052 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.02 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 94 Resp: 7470

Ion Ratio Lower Upper

94 100

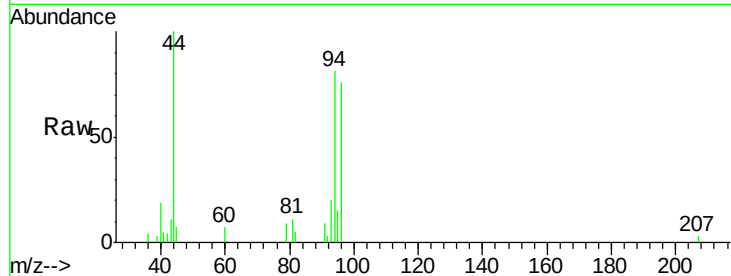
96 93.9 74.9 112.3

Manual Integrations

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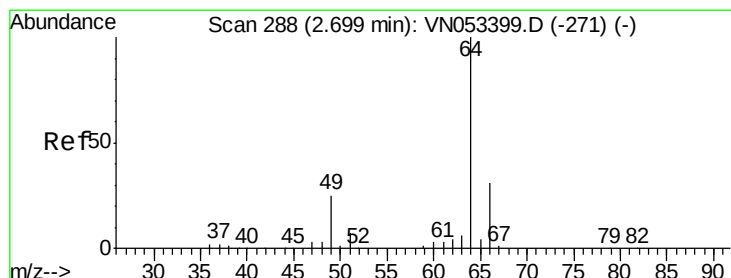
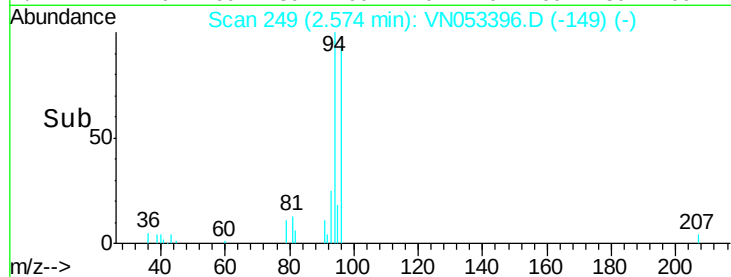
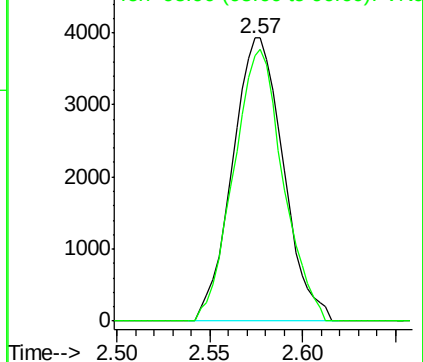
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 0.991 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.01 min

Lab File: VN053396.D

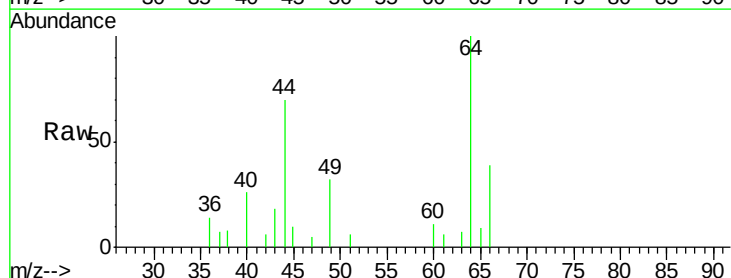
Acq: 15 Jan 2019 9:16

Tgt Ion: 64 Resp: 6204

Ion Ratio Lower Upper

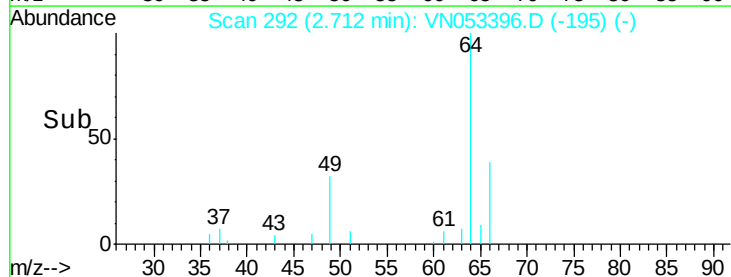
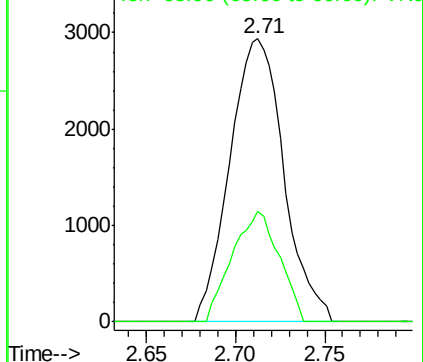
64 100

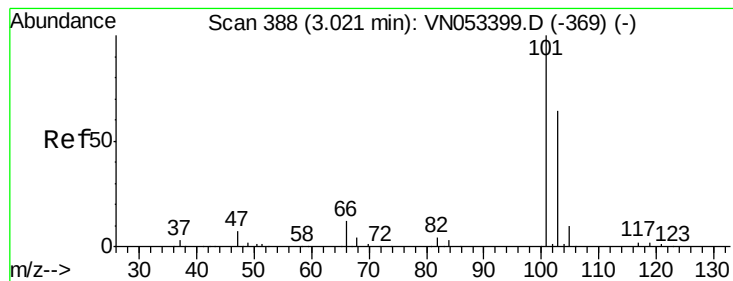
66 39.2 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

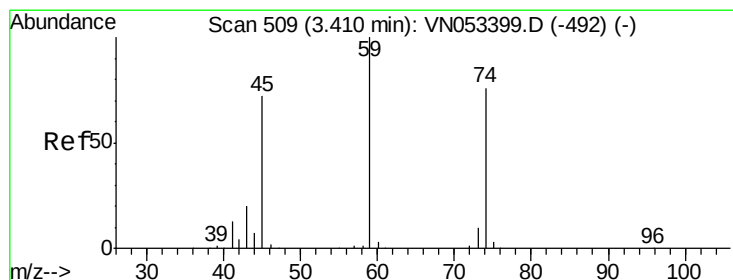
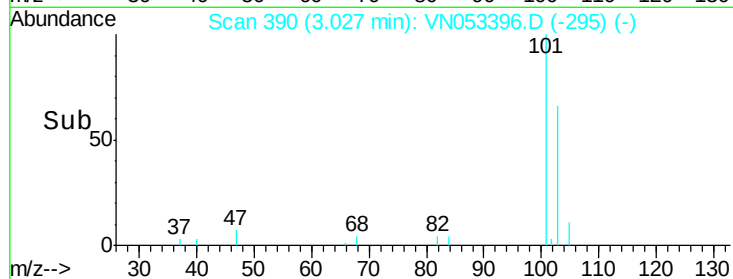
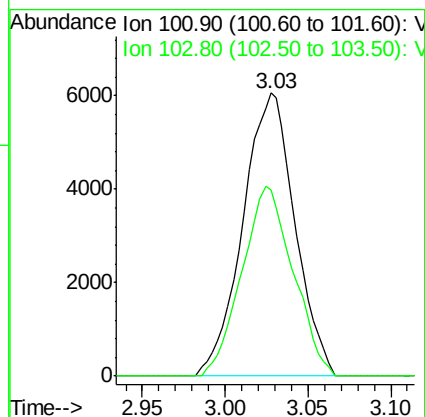
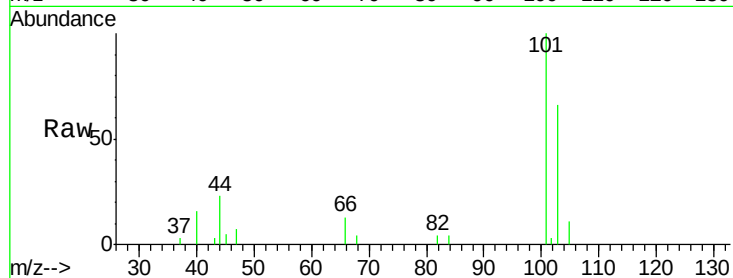
Trichlorofluoromethane
Concen: 0.979 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.01 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

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VSTDIC001

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	52.1	78.1

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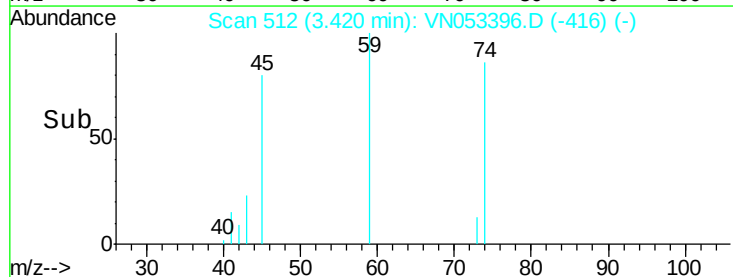
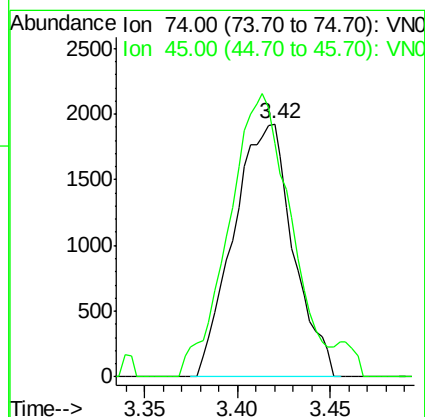
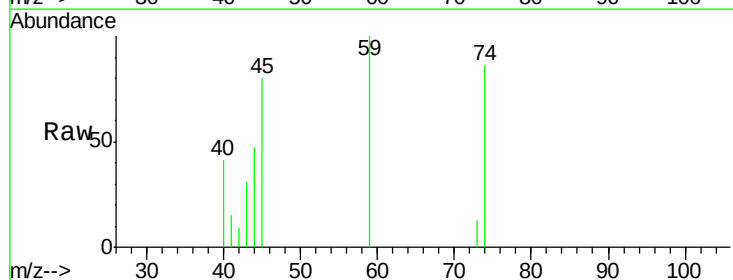
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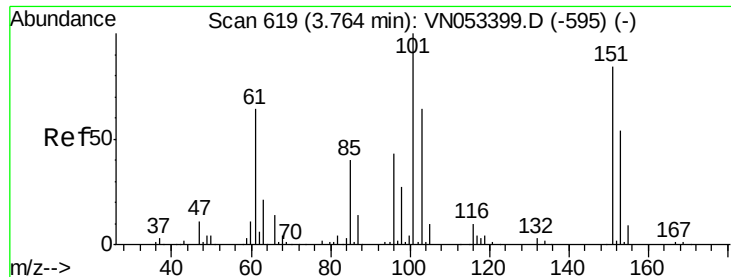


#8

Diethyl Ether
Concen: 0.847 ug/l
RT: 3.42 min Scan# 512
Delta R.T. 0.01 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
74	100		
45	115.5	48.3	144.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.982 ug/l

RT: 3.77 min Scan# 622

Delta R.T. 0.01 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

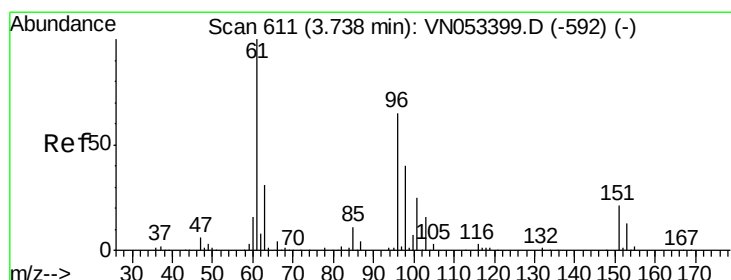
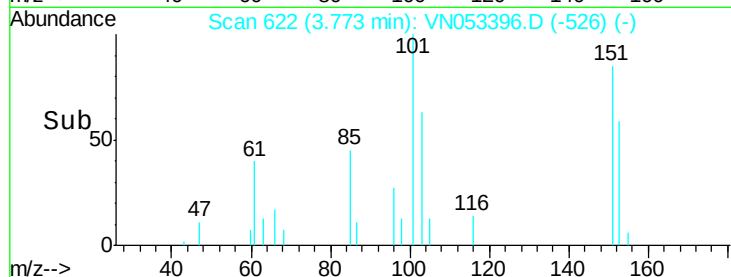
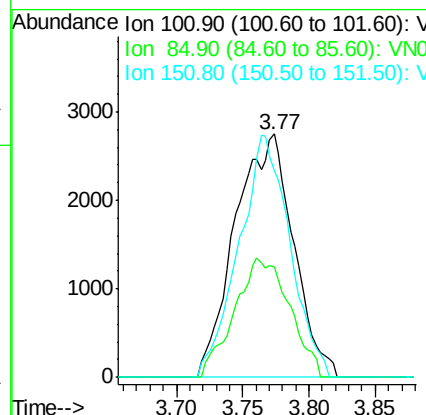
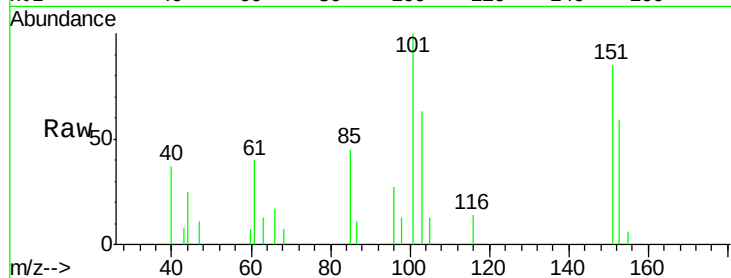
ClientSampled :

VSTDIC001

Tot Ion:	101	Resp:	8419
Ion	Ratio	Lower	Upper
101	100		
85	46.1	33.3	49.9
151	87.0	67.0	100.4

Manual Integrations
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1/16/2019 9:50:34 AM



#12

1,1-Dichloroethene

Concen: 0.971 ug/l

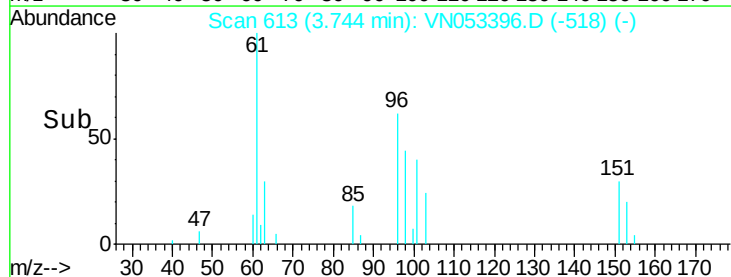
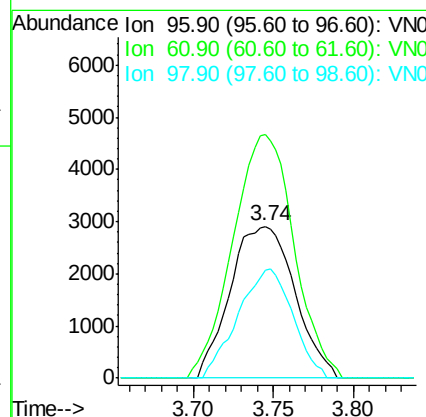
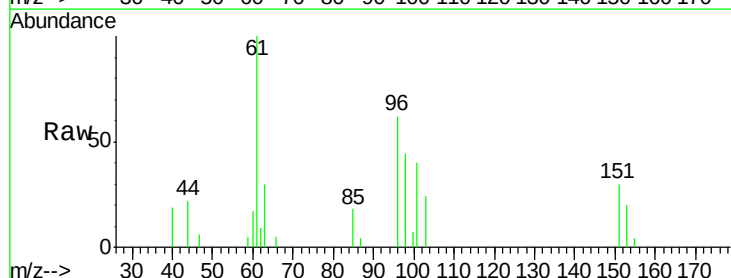
RT: 3.74 min Scan# 613

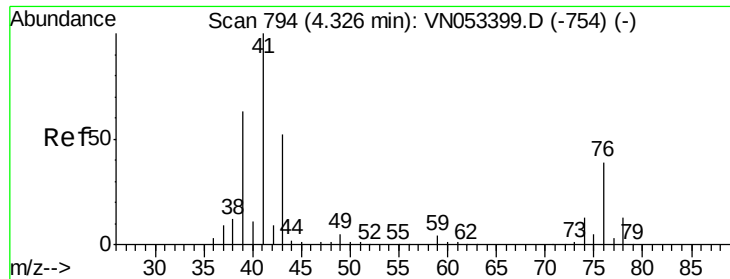
Delta R.T. 0.01 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tgt Ion:	96	Resp:	8074
Ion	Ratio	Lower	Upper
96	100		
61	160.7	123.2	184.8
98	71.0	50.5	75.7





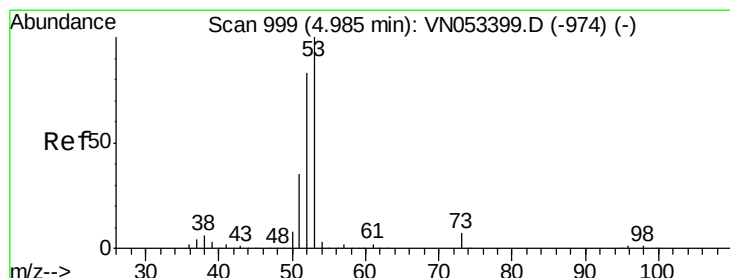
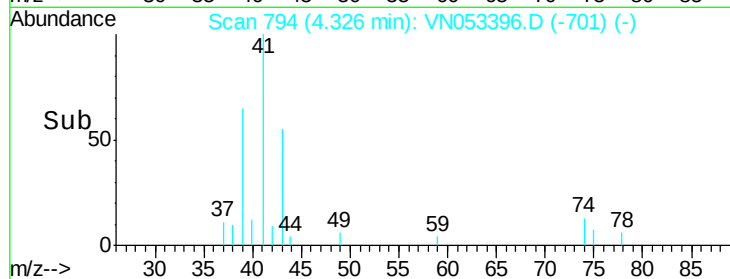
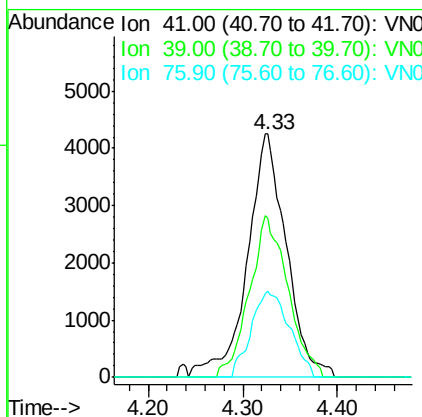
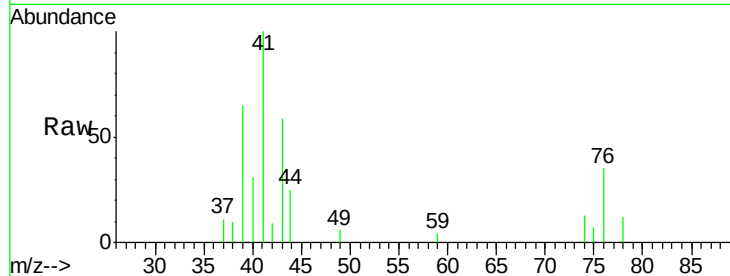
#14
Allvl chloride
Concen: 0.901 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion:	41	Resp:	12175
Ion Ratio	Lower	Upper	
41	100		
39	65.3	51.9	77.9
76	34.8	31.2	46.8

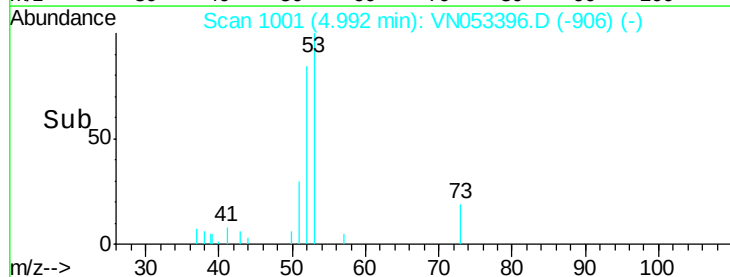
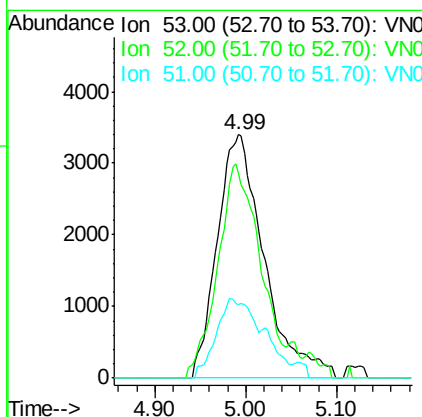
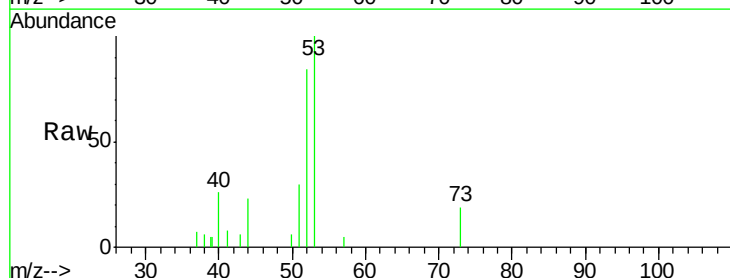
Manual Integrations
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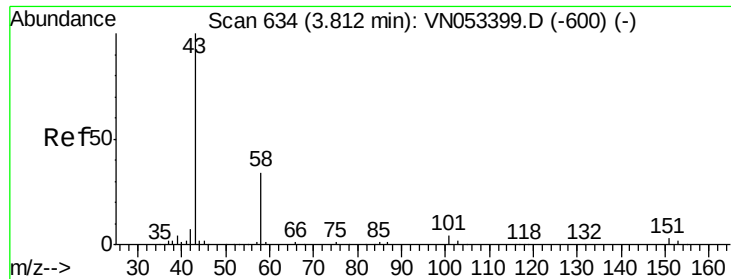
MMDadoda
1/16/2019 9:50:34 AM



#15
Acrylonitrile
Concen: 4.080 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. 0.01 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion:	53	Resp:	12135
Ion Ratio	Lower	Upper	
53	100		
52	79.0	65.2	97.8
51	25.4	28.0	42.0#





#16

Acetone

Concen: 5.417 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 11738

Ion Ratio Lower Upper

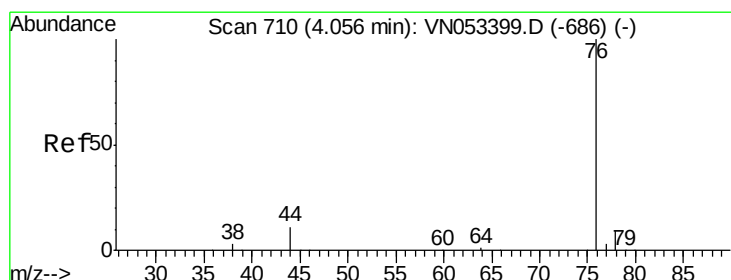
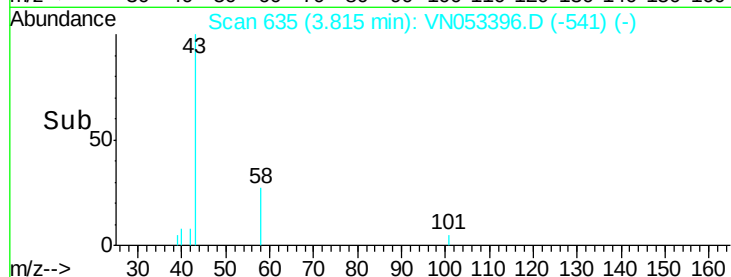
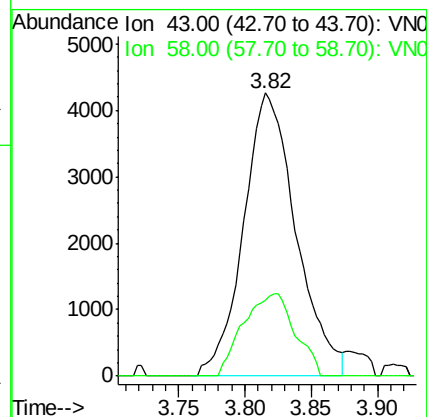
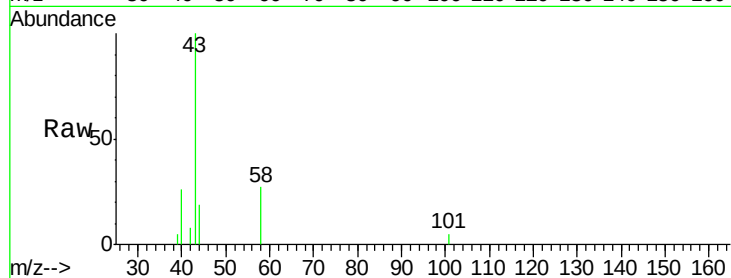
43 100

58 26.9 27.8 41.6#

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#17

Carbon Disulfide

Concen: 0.978 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN053396.D

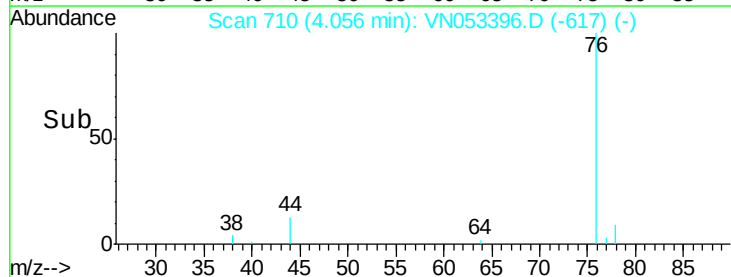
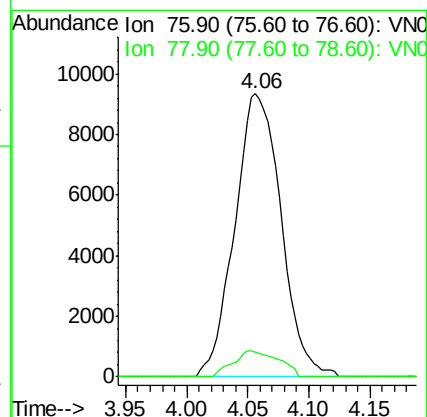
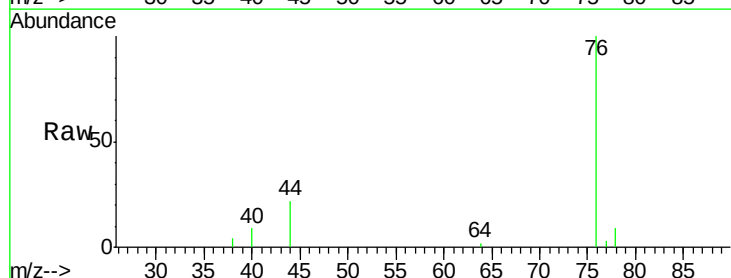
Acq: 15 Jan 2019 9:16

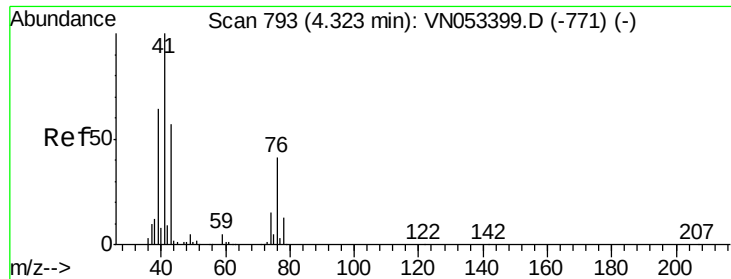
Tgt Ion: 76 Resp: 24595

Ion Ratio Lower Upper

76 100

78 8.7 7.2 10.8





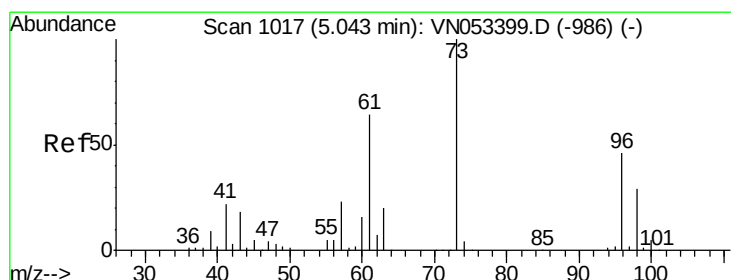
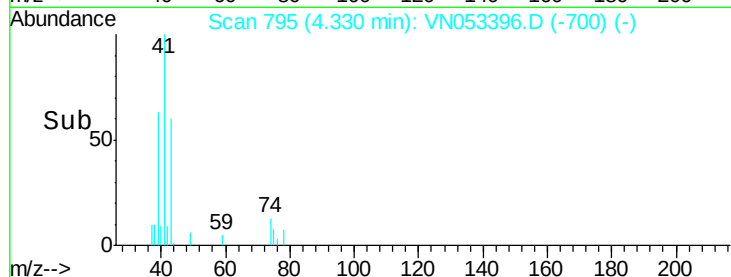
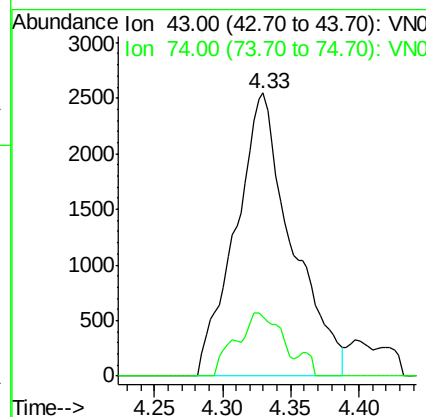
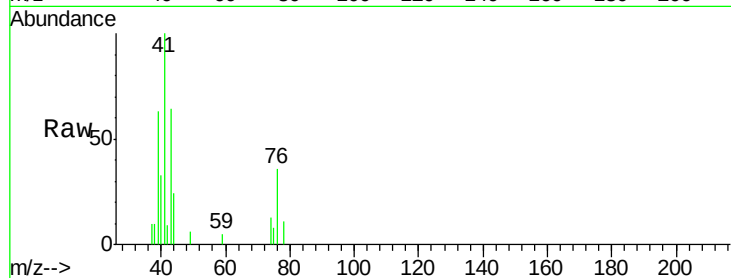
#18
Methyl Acetate
Concen: 0.998 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 43 Resp: 7286
Ion Ratio Lower Upper
43 100
74 17.7 19.8 29.8#

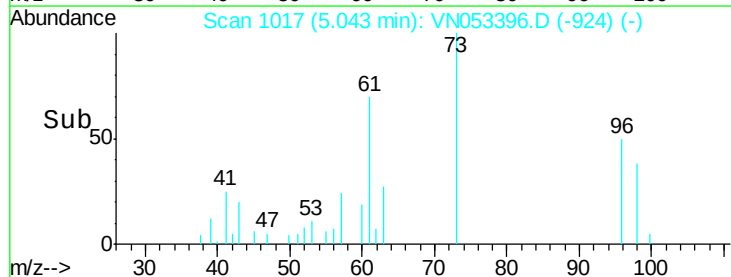
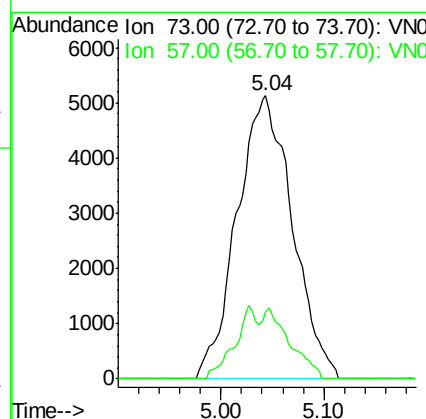
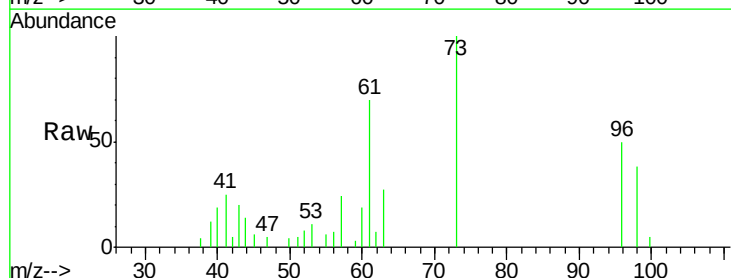
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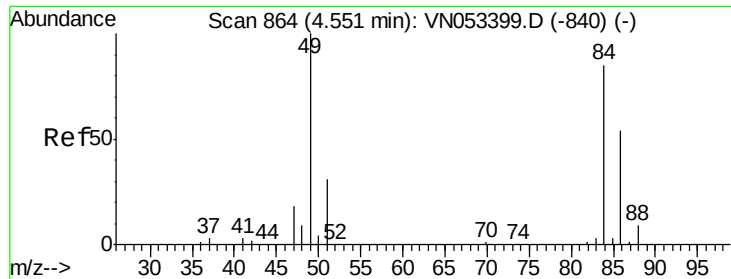
MMDadoda
1/16/2019 9:50:34 AM



#19
Methyl tert-butyl Ether
Concen: 0.867 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion: 73 Resp: 19159
Ion Ratio Lower Upper
73 100
57 23.5 18.5 27.7





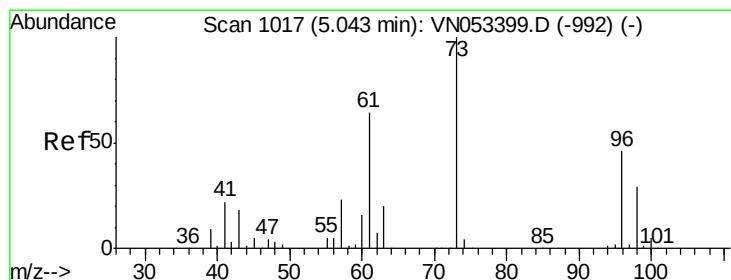
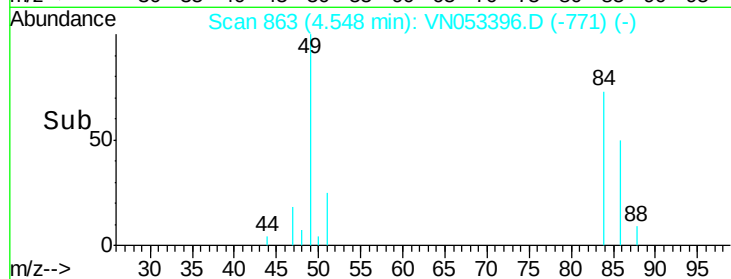
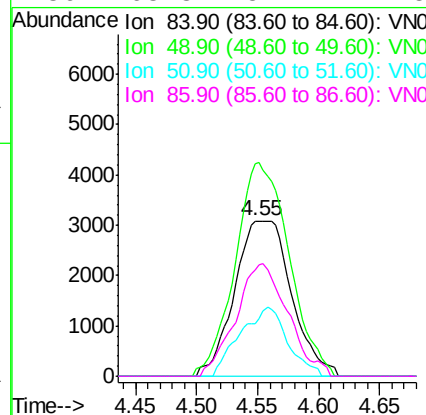
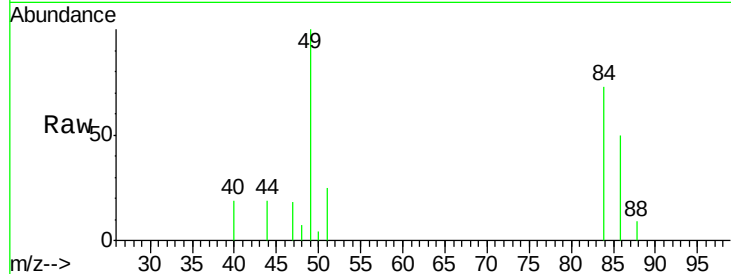
#20
Methylene Chloride
Concen: 1.011 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion:	84	Resp:	10006
Ion	Ratio	Lower	Upper
84	100		
49	137.1	95.3	142.9
51	33.7	29.0	43.6
86	68.8	51.7	77.5

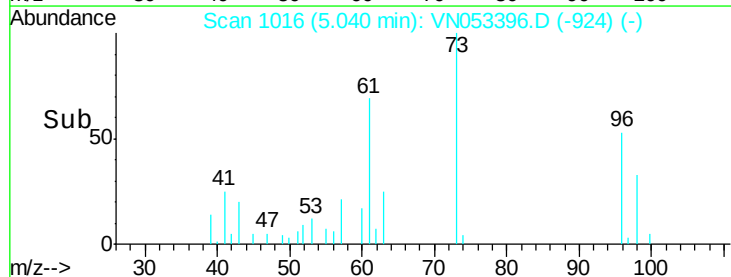
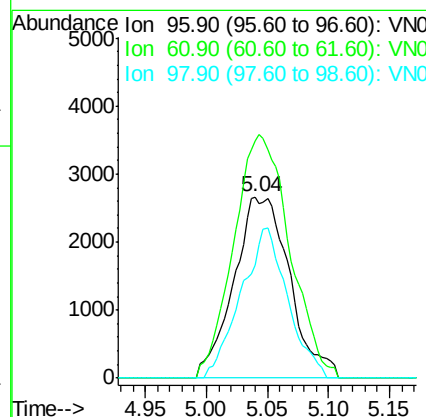
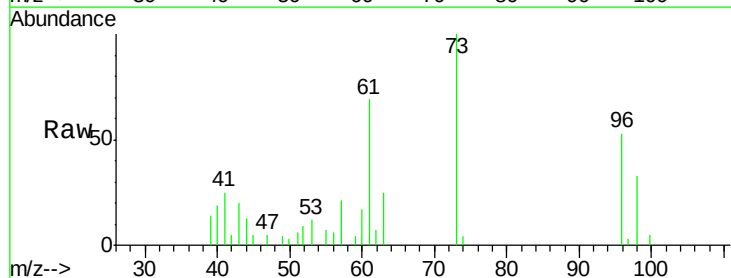
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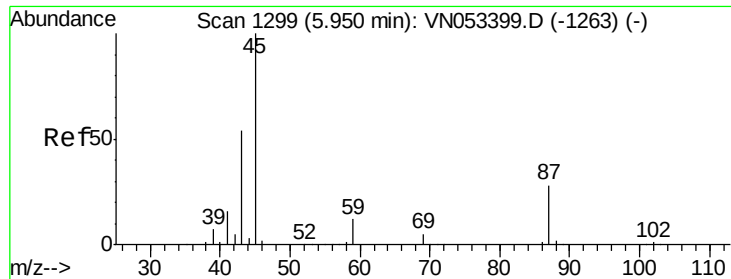
MMDadoda
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#21
trans-1,2-Dichloroethene
Concen: 0.948 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion:	96	Resp:	8430
Ion	Ratio	Lower	Upper
96	100		
61	130.8	110.2	165.4
98	62.3	50.7	76.1





#22

Diisopropyl ether

Concen: 0.894 ug/l

RT: 5.95 min Scan# 1298

Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

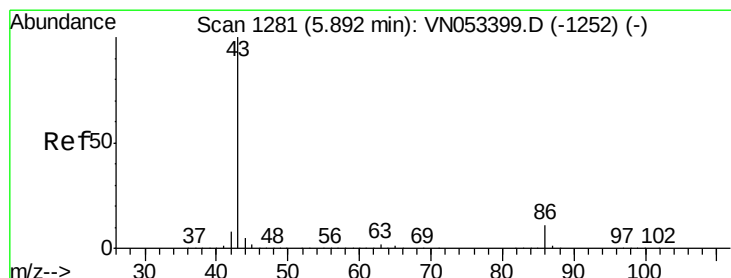
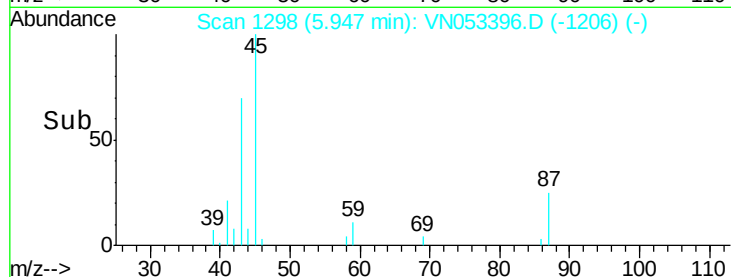
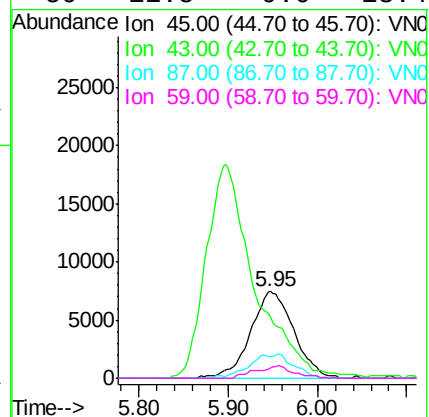
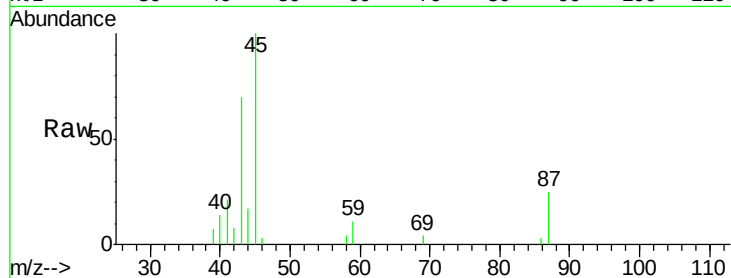
ClientSampleId :

VSTDIC001

Tot Ion:	45	Resp:	25214
Ion Ratio	Lower	Upper	
45	100		
43	66.3	43.0	64.6#
87	24.6	22.1	33.1
59	11.5	9.0	13.4

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1/16/2019 9:50:34 AM



#23

Vinyl Acetate

Concen: 3.994 ug/l

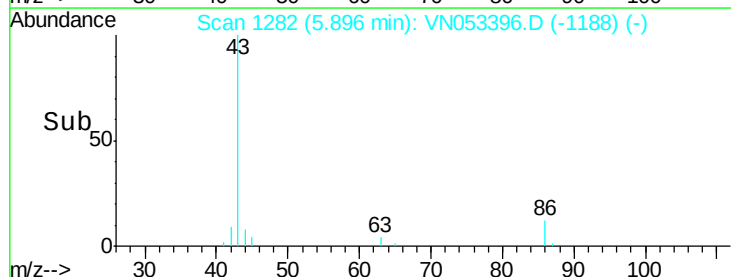
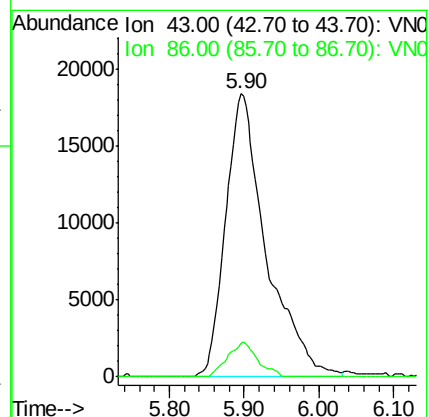
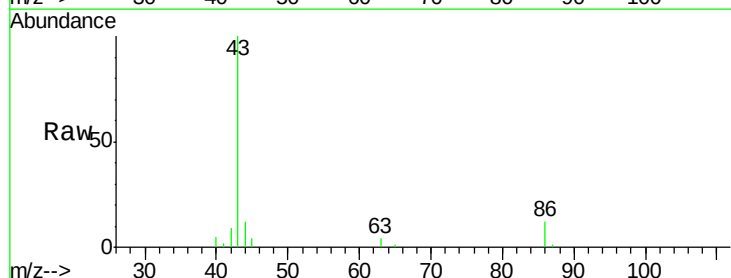
RT: 5.90 min Scan# 1282

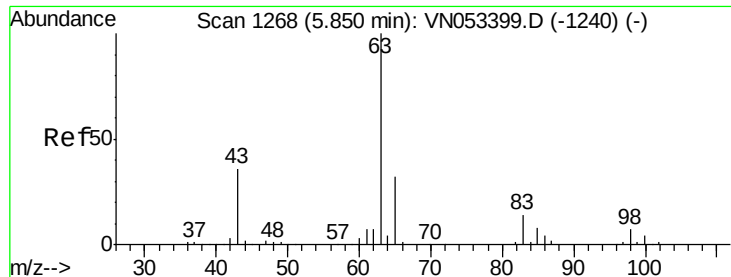
Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tgt Ion:	43	Resp:	69263
Ion Ratio	Lower	Upper	
43	100		
86	11.7	8.4	12.6





#24

1,1-Dichloroethane

Concen: 0.953 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

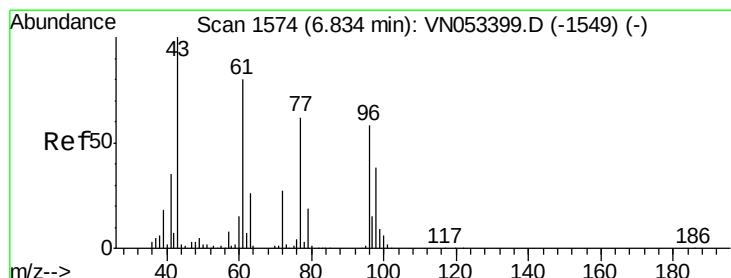
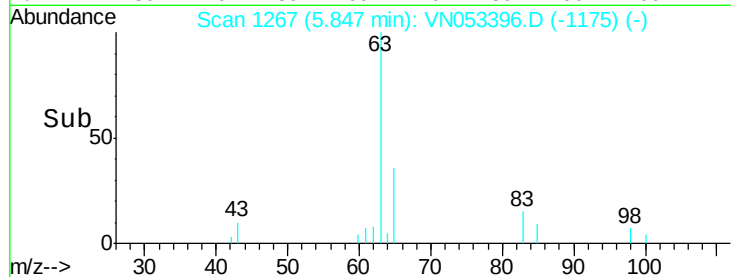
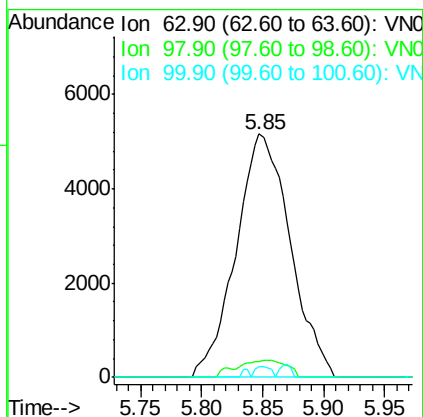
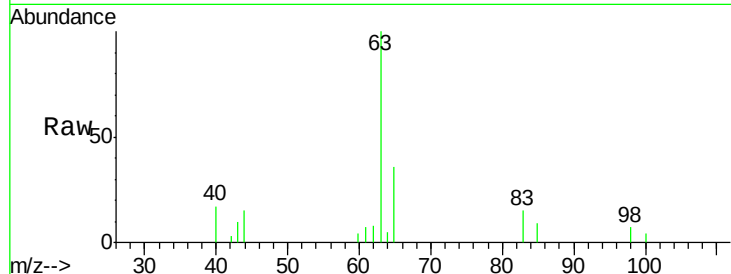
ClientSampleId :

VSTDIC001

Tot Ion:	63	Resp:	15898
Ion Ratio	Lower	Upper	
63	100		
98	6.7	3.3	9.8
100	4.1	2.1	6.5

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#25

2-Butanone

Concen: 4.317 ug/l

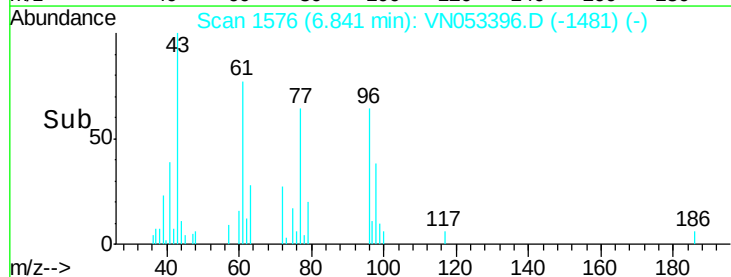
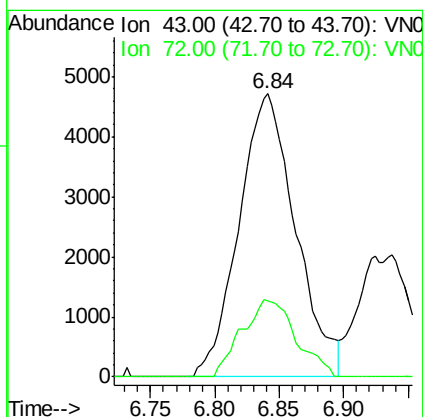
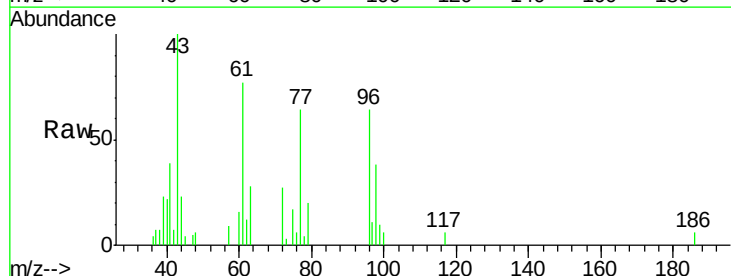
RT: 6.84 min Scan# 1576

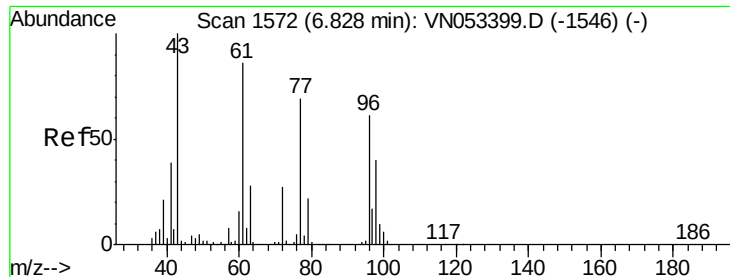
Delta R.T. 0.01 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tgt Ion:	43	Resp:	14415
Ion Ratio	Lower	Upper	
43	100		
72	26.9	22.0	33.0





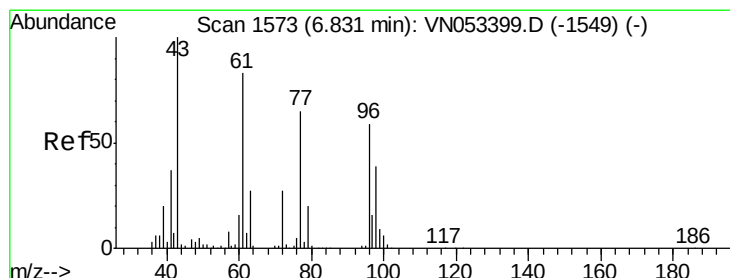
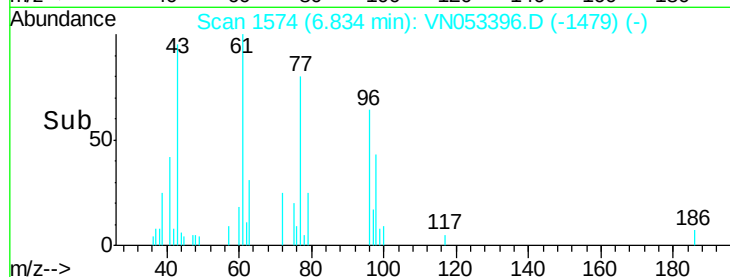
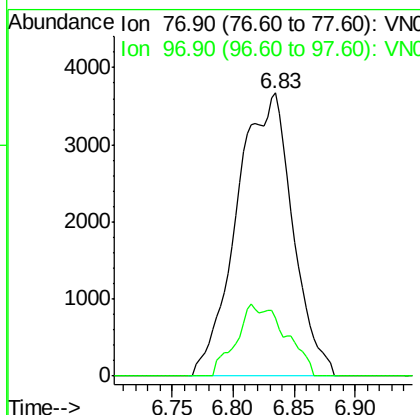
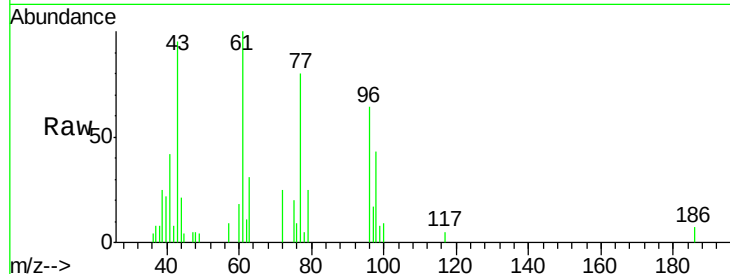
#26
 2,2-Dichloropropane
 Concen: 0.925 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion: 77 Resp: 11649
 Ion Ratio Lower Upper
 77 100
 97 12.2 12.3 36.9#

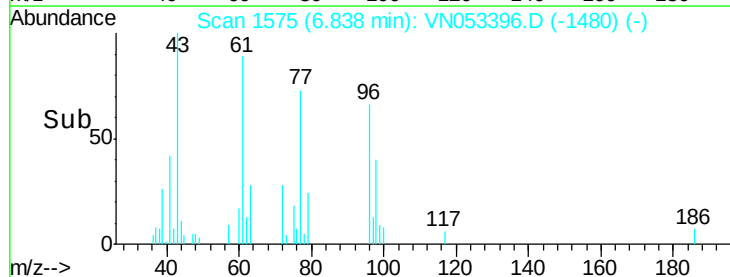
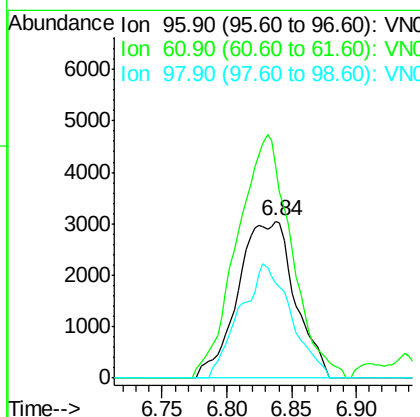
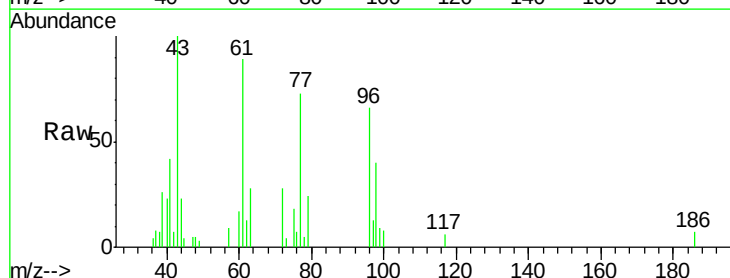
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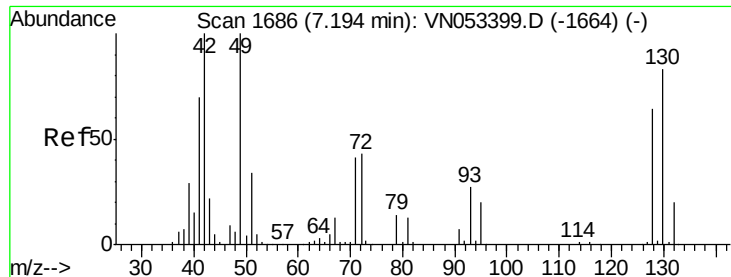
MMDadoda
 1/16/2019 9:50:34 AM



#27
 cis-1,2-Dichloroethene
 Concen: 0.914 ug/l m
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Tgt Ion: 96 Resp: 9300
 Ion Ratio Lower Upper
 96 100
 61 148.0 0.0 280.6
 98 65.3 0.0 127.6





#28

Bromochloromethane

Concen: 1.052 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

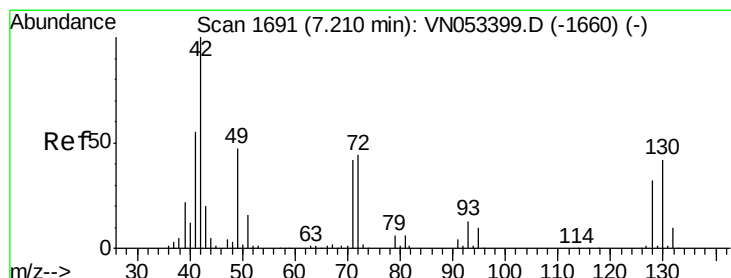
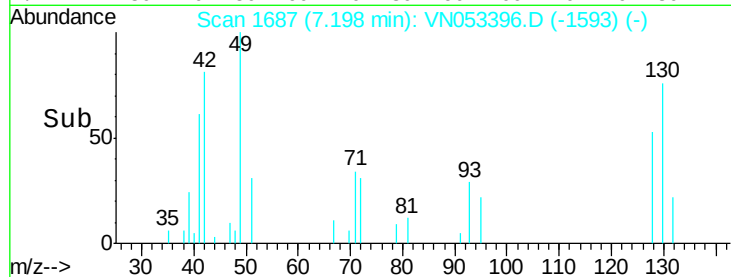
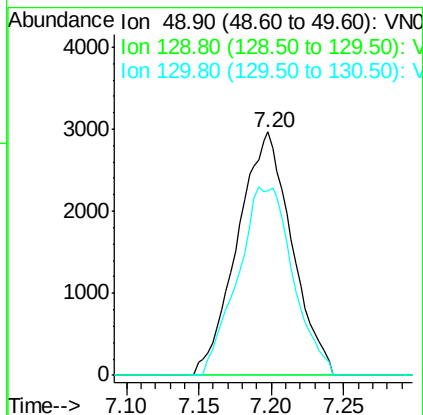
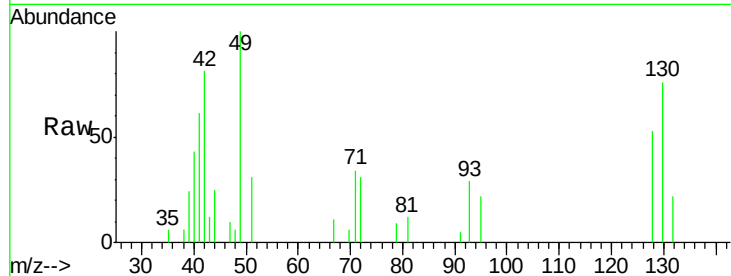
ClientSampled :

VSTDIC001

Tot Ion: 49 Resp: 7727
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.8
 130 78.4 65.4 98.0

Manual Integrations
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 1/16/2019 9:50:34 AM



#29

Tetrahydrofuran

Concen: 4.408 ug/l

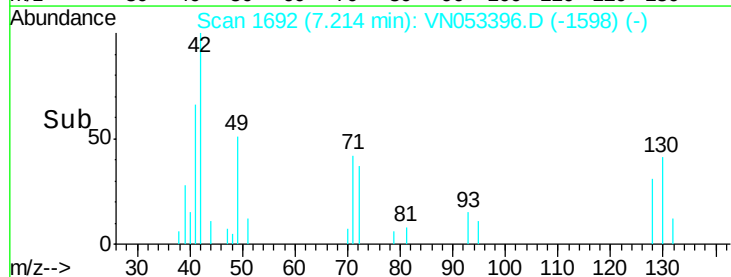
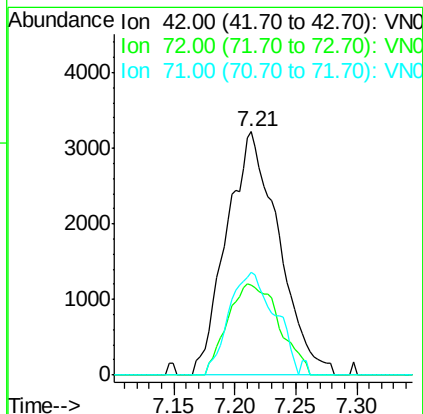
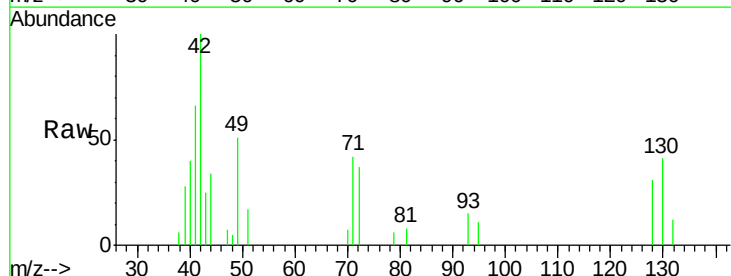
RT: 7.21 min Scan# 1692

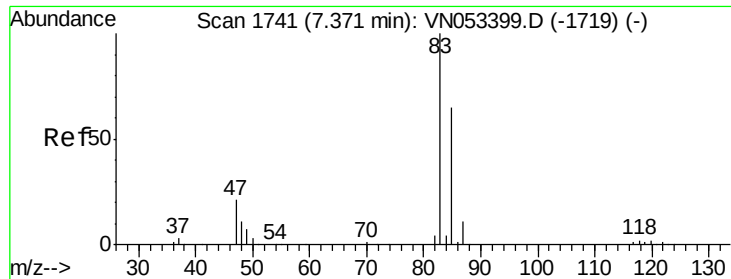
Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tgt Ion: 42 Resp: 9581
 Ion Ratio Lower Upper
 42 100
 72 37.1 35.6 53.4
 71 36.9 33.8 50.8





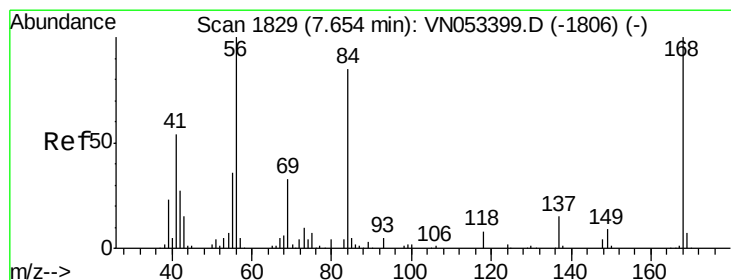
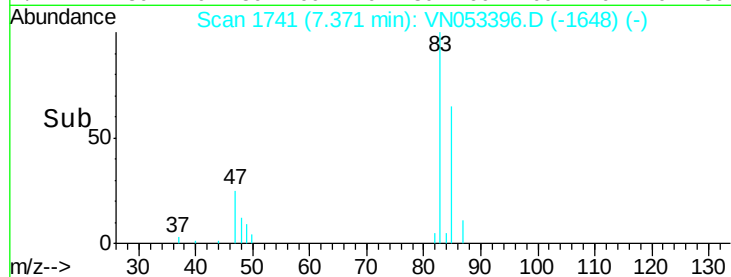
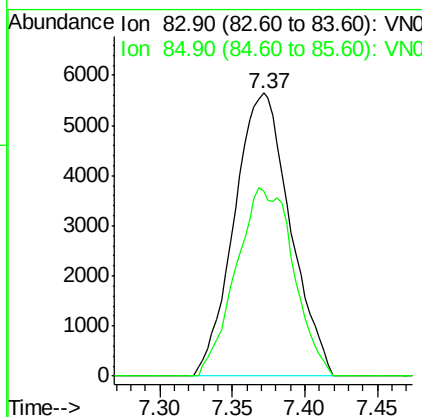
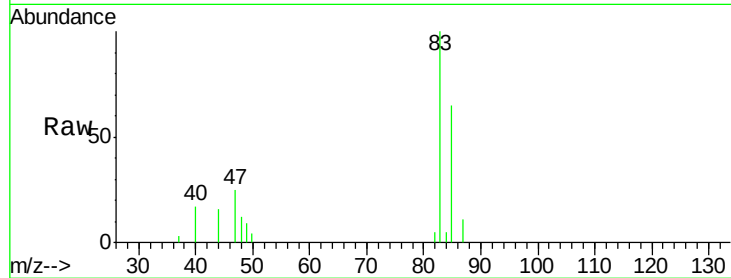
#30
Chloroform
Concen: 0.933 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	83	Resp	15154
Ion Ratio	100	Lower	Upper
83	100		
85	65.5	51.3	76.9

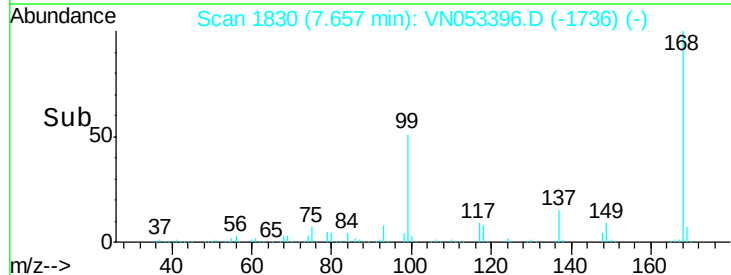
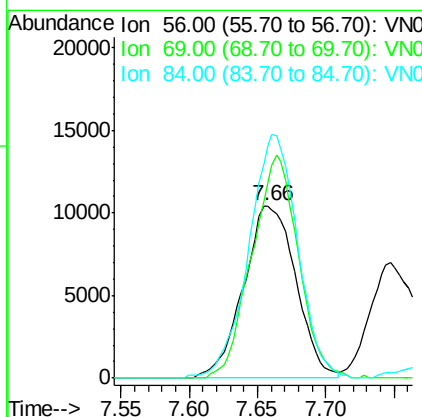
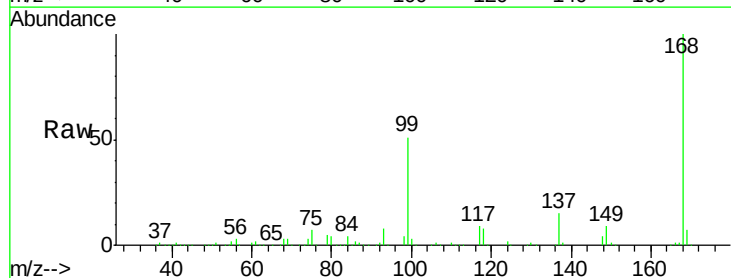
Manual Integrations
APPROVED

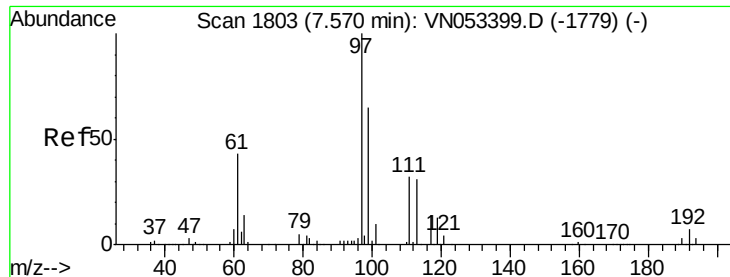
MMDadoda
1/16/2019 9:50:34 AM



#31
Cyclohexane
Concen: 1.500 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion	56	Resp	27858
Ion Ratio	100	Lower	Upper
56	100		
69	113.3	26.7	40.1#
84	132.9	68.2	102.4#





#32

1,1,1-Trichloroethane

Concen: 0.944 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

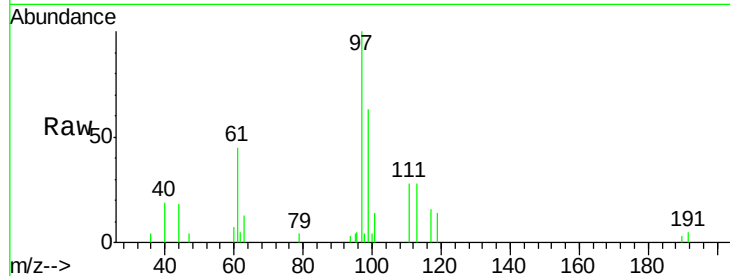
ClientSampleId :

VSTDIC001

Tot Ion:	97	Resp:	13011
Ion Ratio	Lower	Upper	
97	100		
99	0.0	51.6	77.4#
61	43.1	34.6	52.0

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:50:34 AM

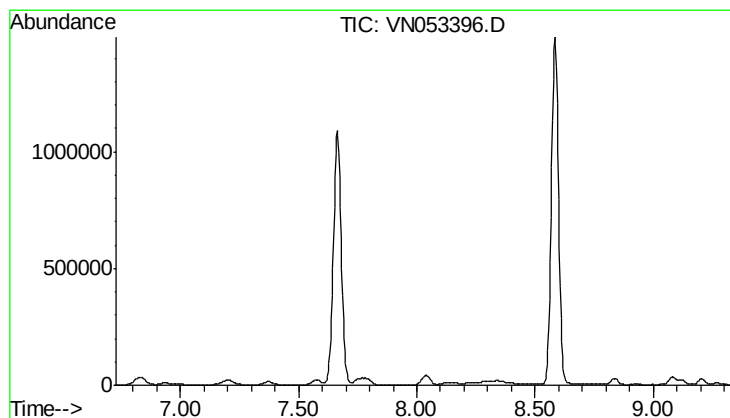
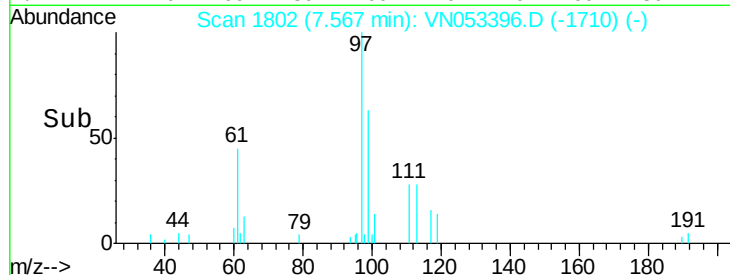
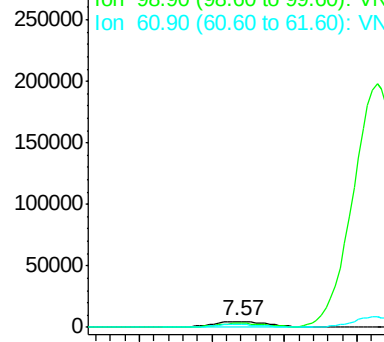


Abundance

Ion 96.90 (96.60 to 97.60): VN053396.D

Ion 98.90 (98.60 to 99.60): VN053396.D

Ion 60.90 (60.60 to 61.60): VN053396.D



#33

1,2-Dichloroethane-d4

Concen: 0.944 ug/l

Expected RT: 8.03 min

Lab File: VN053396.D

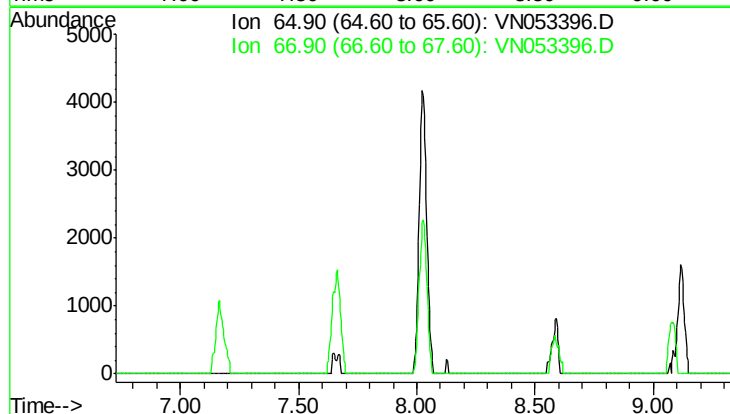
Acq: 15 Jan 2019 9:16

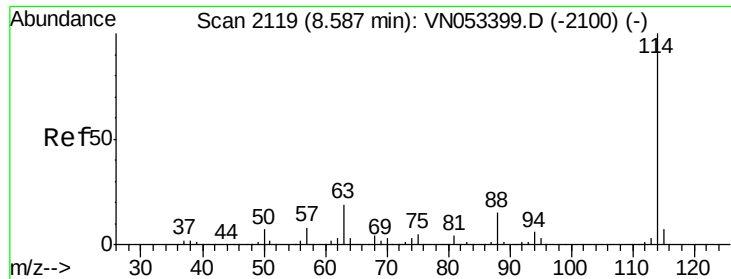
Tgt Ion: 65

Sig Exp Ratio

65 100

67 55.5





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:114 Resp: 1399593

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

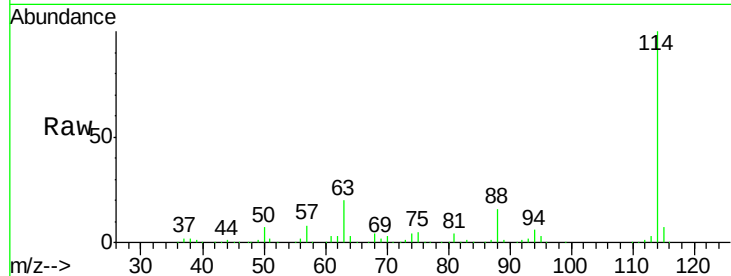
88 15.7 0.0 30.8

Manual Integrations

APPROVED

MMDadoda

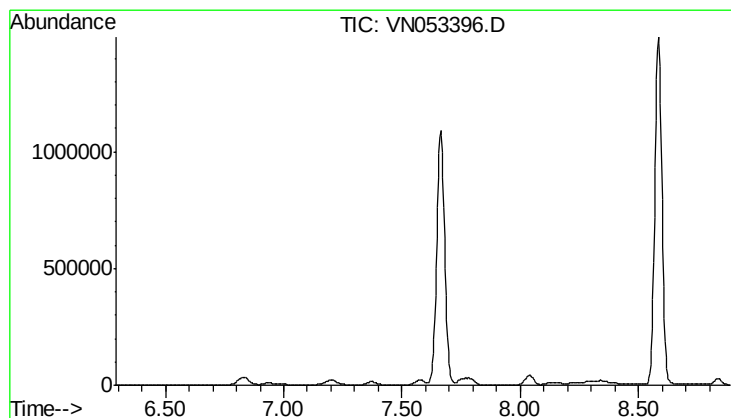
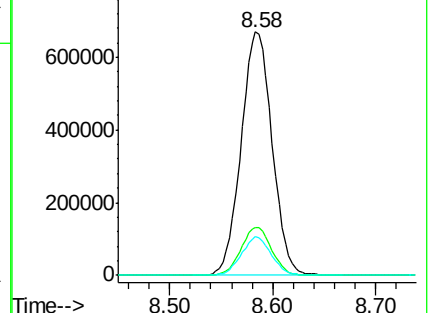
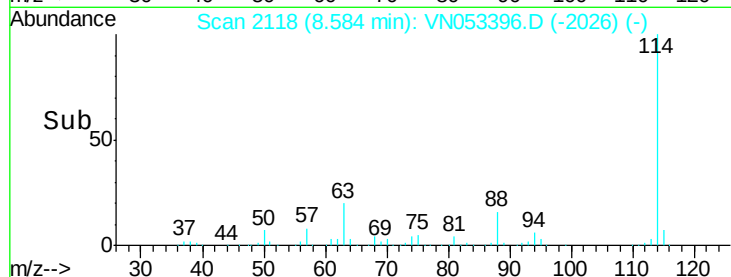
1/16/2019 9:50:34 AM



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

Expected RT: 7.59 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

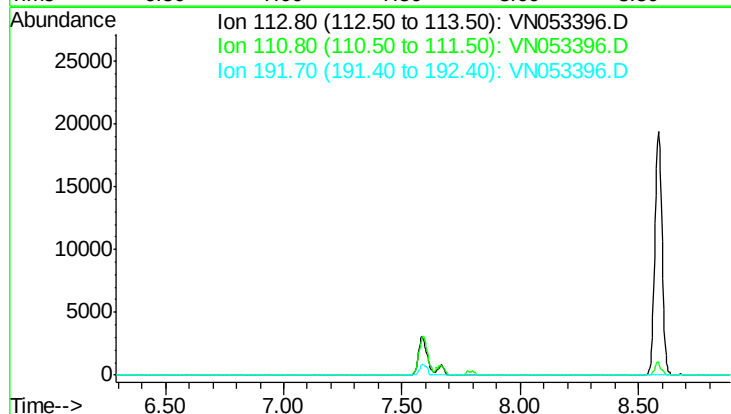
Tgt Ion: 113

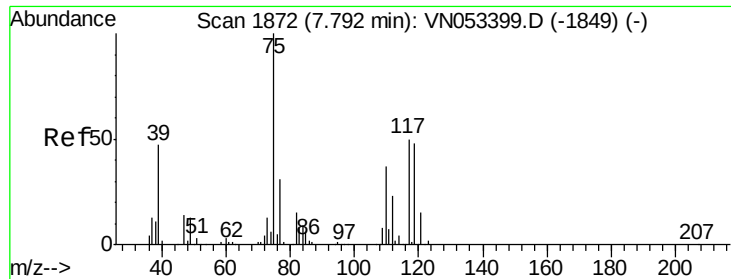
Sig Exp Ratio

113 100

111 101.8

192 22.4





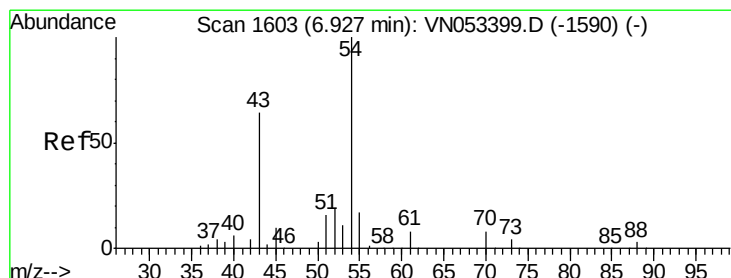
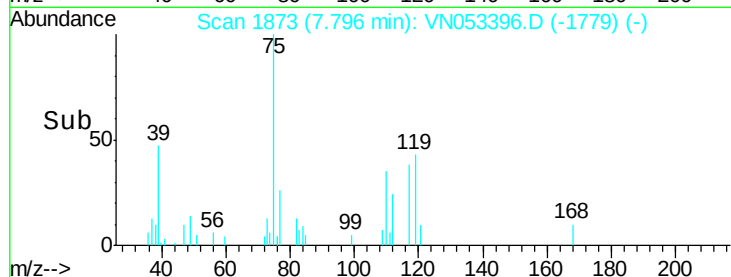
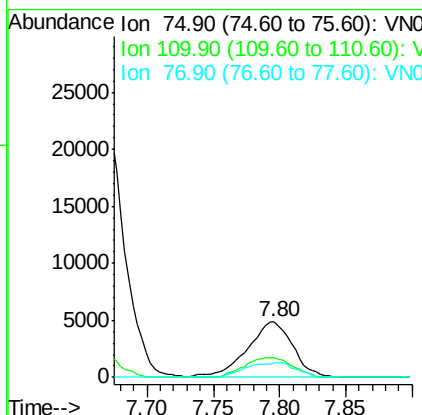
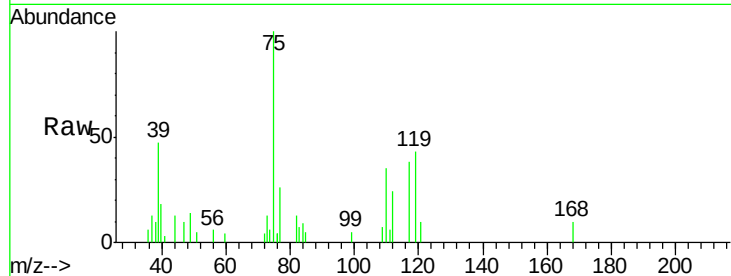
#36
 1,1-Dichloropropene
 Concen: 0.917 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
75	100		
110	37.3	18.4	55.0
77	28.9	25.3	37.9

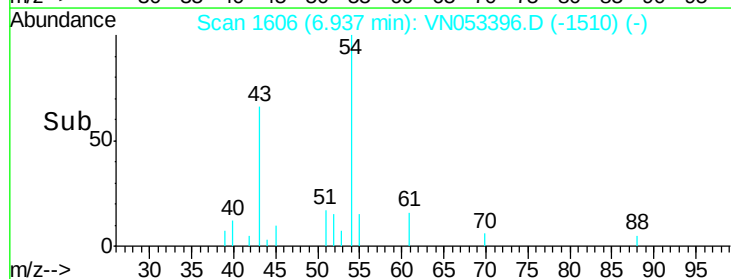
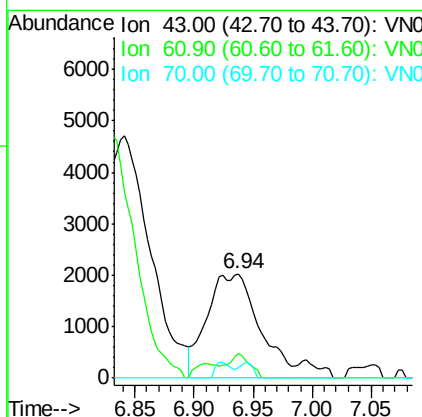
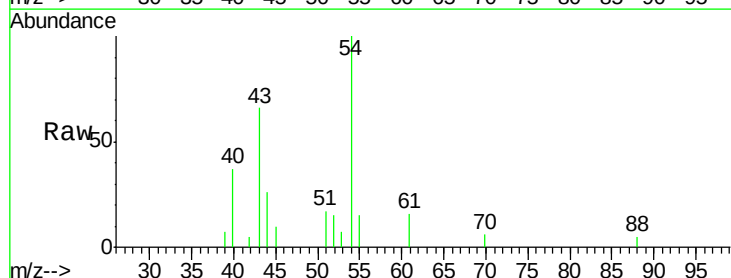
Manual Integrations
 APPROVED

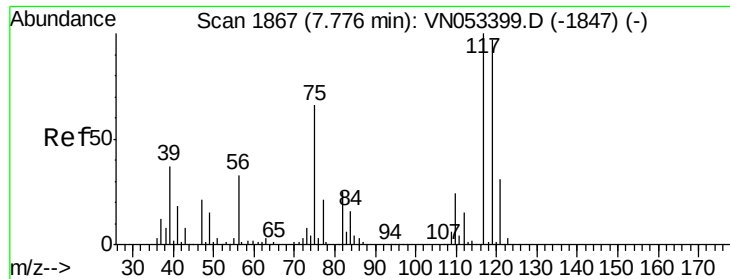
MMDadoda
 1/16/2019 9:50:34 AM



#37
 Ethyl Acetate
 Concen: 0.894 ug/l m
 RT: 6.94 min Scan# 1606
 Delta R.T. 0.01 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.9	17.9#
70	4.3	8.6	13.0#





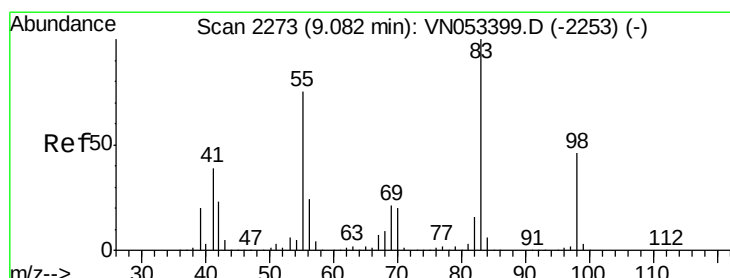
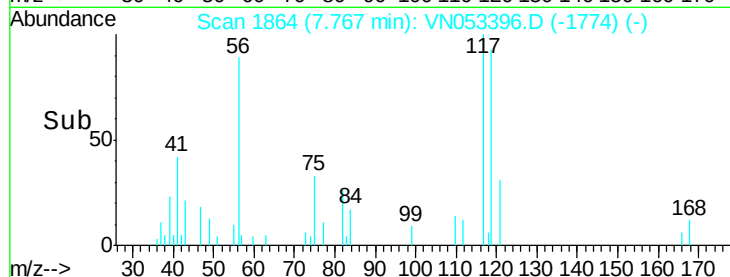
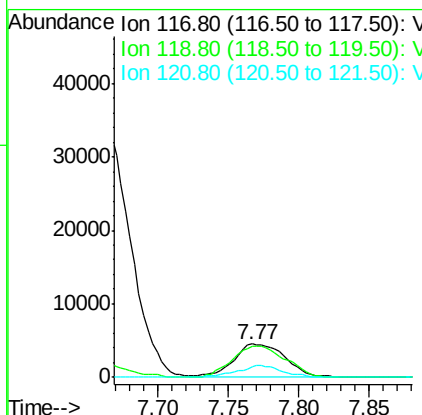
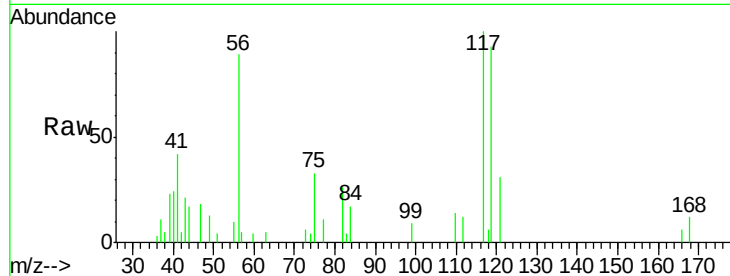
#38
Carbon Tetrachloride
Concen: 0.969 ug/l
RT: 7.77 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.2	76.6	115.0
121	31.5	25.0	37.4

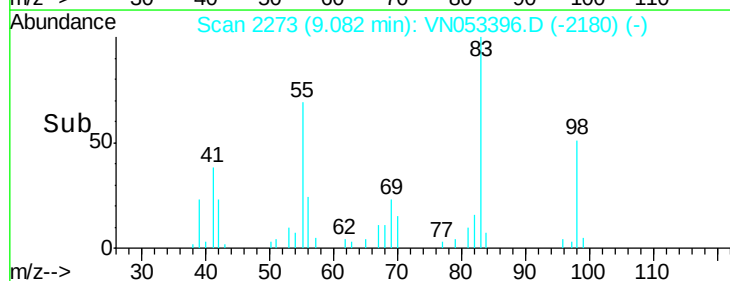
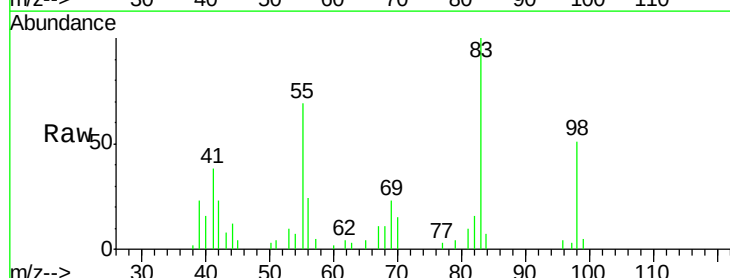
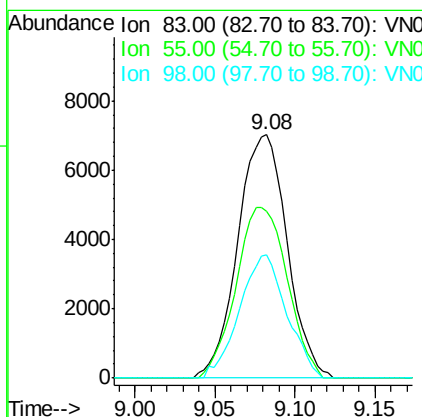
Manual Integrations
APPROVED

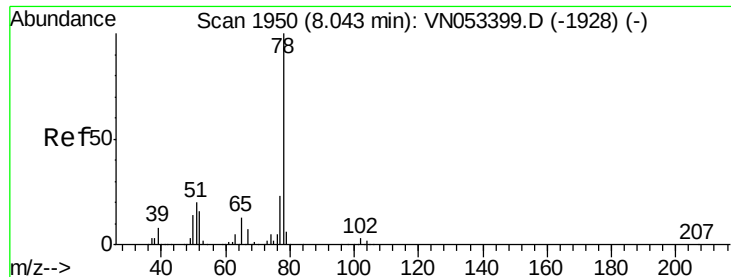
MMDadoda
1/16/2019 9:50:34 AM



#39
Methylcyclohexane
Concen: 0.940 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
83	100		
55	68.6	60.1	90.1
98	50.6	36.7	55.1





#40

Benzene

Concen: 0.939 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 78 Resp: 36365

Ion Ratio Lower Upper

78 100

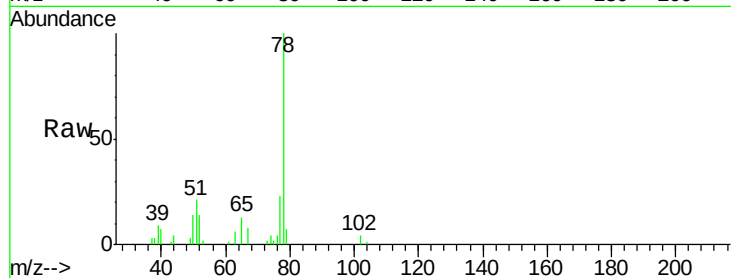
77 23.1 19.0 28.4

Manual Integrations

APPROVED

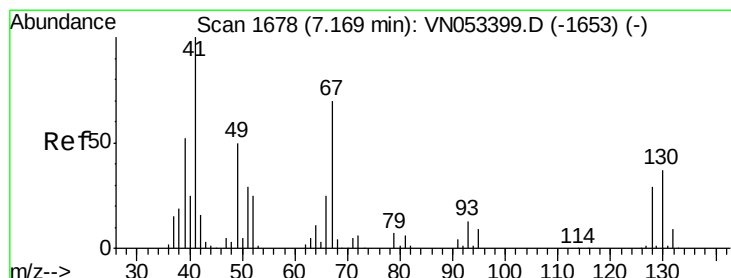
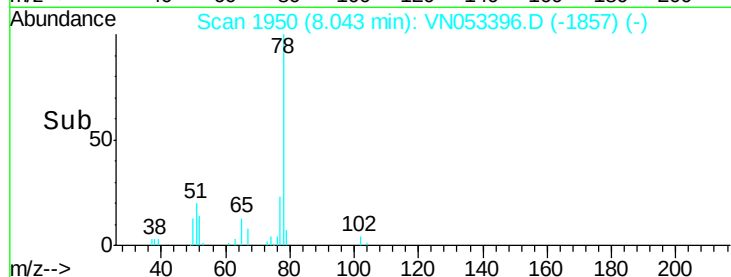
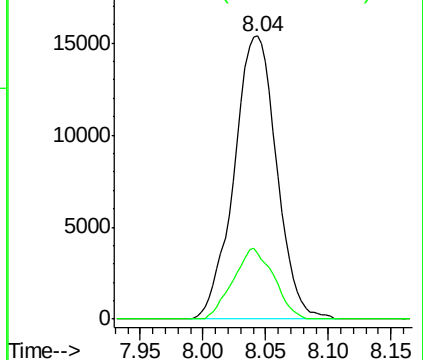
MMDadoda

1/16/2019 9:50:34 AM



Abundance Ion 78.00 (77.70 to 78.70): VNC

Ion 77.00 (76.70 to 77.70): VNC



#41

Methacrylonitrile

Concen: 0.604 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tgt Ion: 41 Resp: 2763

Ion Ratio Lower Upper

41 100

39 33.9 0.0 0.0#

67 92.6 0.0 0.0#

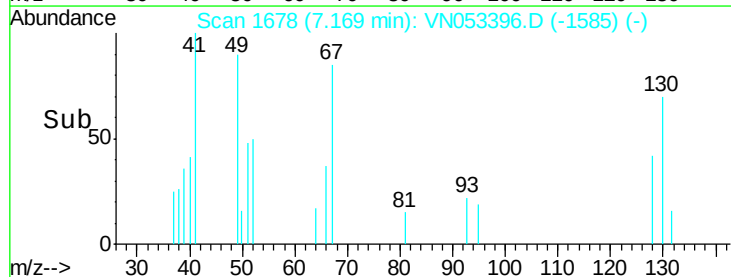
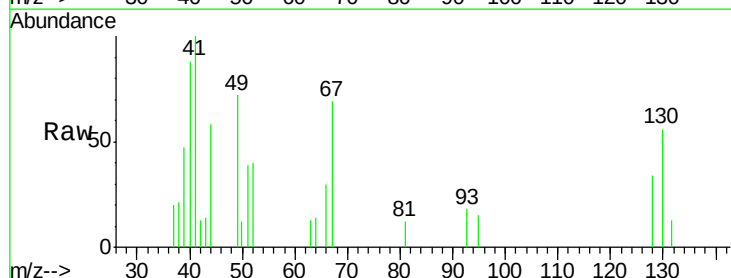
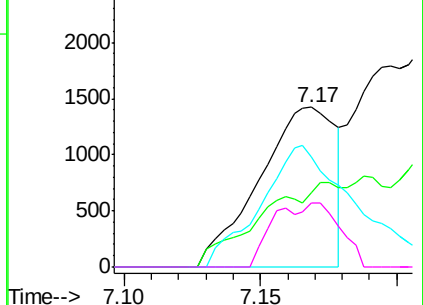
52 14.2 0.0 0.0#

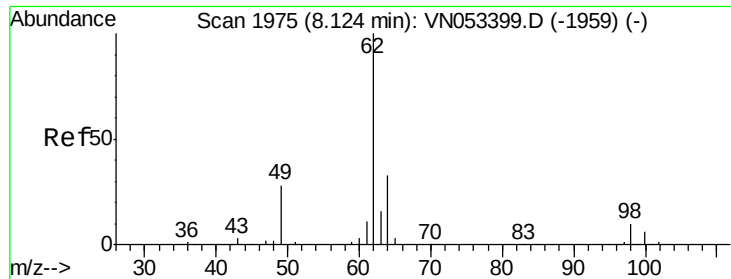
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





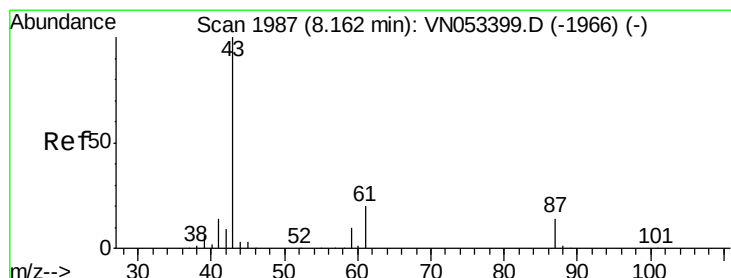
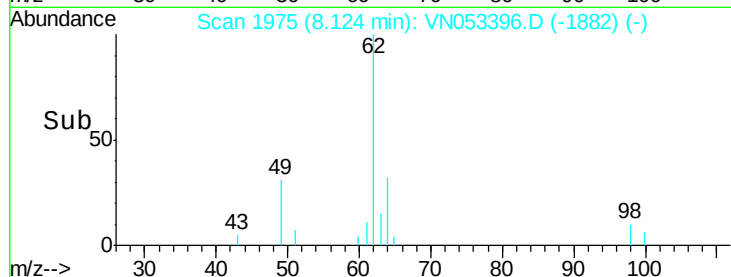
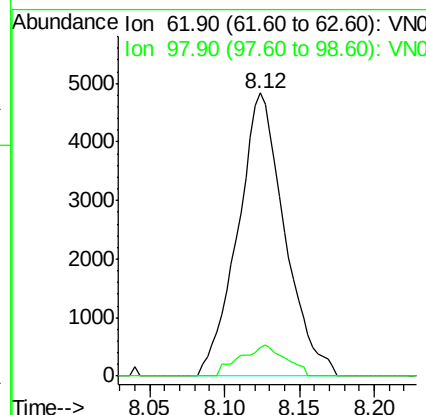
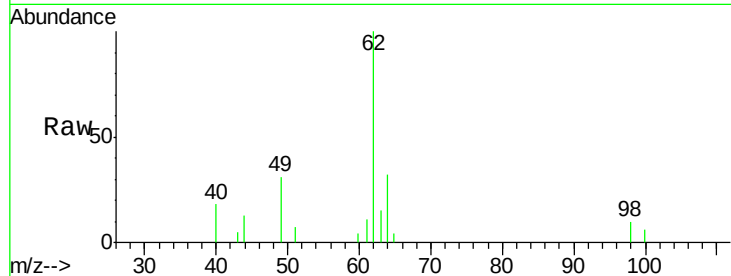
#42
 1,2-Dichloroethane
 Concen: 0.936 ug/l
 RT: 8.12 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	20.2

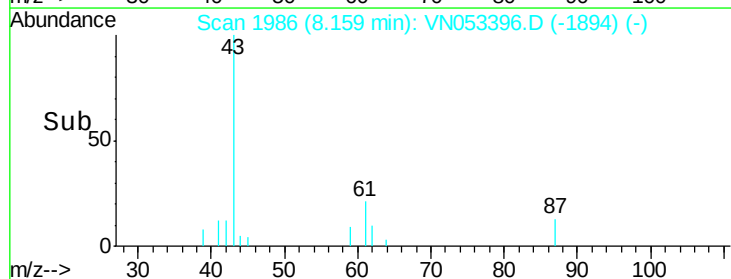
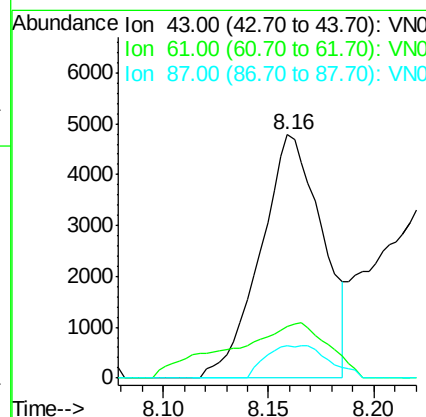
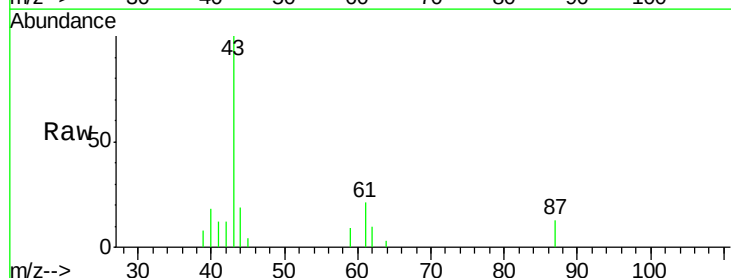
Manual Integrations
 APPROVED

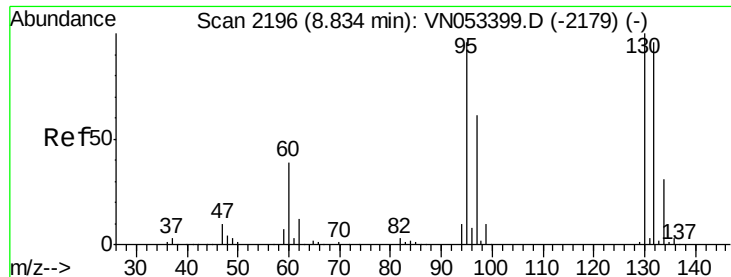
MMDadoda
 1/16/2019 9:50:34 AM



#43
 Isopropyl Acetate
 Concen: 0.707 ug/l
 RT: 8.16 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
43	100		
61	36.1	23.3	34.9#
87	13.6	10.8	16.2





#44

Trichloroethene

Concen: 0.954 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:130 Resp: 10246

Ion Ratio Lower Upper

130 100

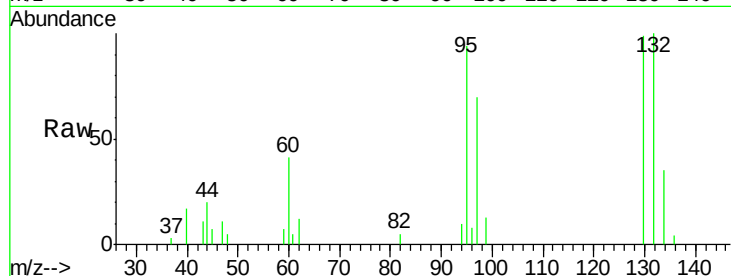
95 95.4 0.0 191.8

Manual Integrations

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MMDadoda

1/16/2019 9:50:34 AM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO

8.84

5000

4000

3000

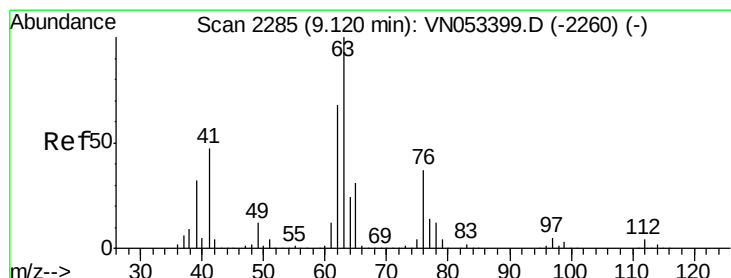
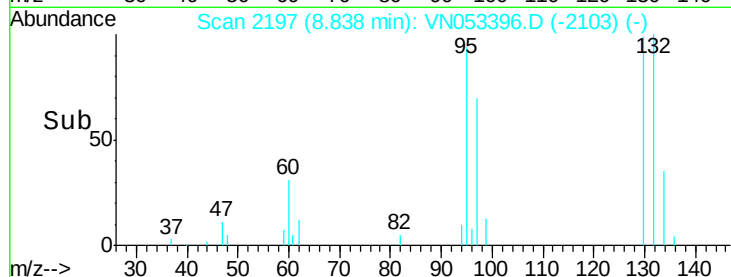
2000

1000

0

8.80 8.85 8.90

Time-->



#45

1,2-Dichloropropane

Concen: 0.969 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN053396.D

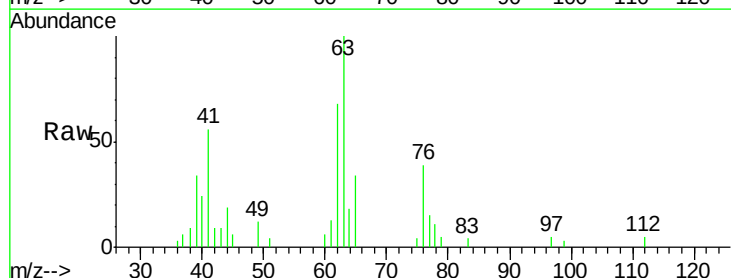
Acq: 15 Jan 2019 9:16

Tgt Ion: 63 Resp: 9939

Ion Ratio Lower Upper

63 100

65 33.9 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.12

5000

4000

3000

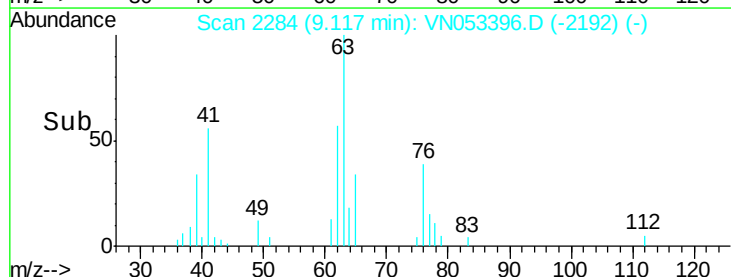
2000

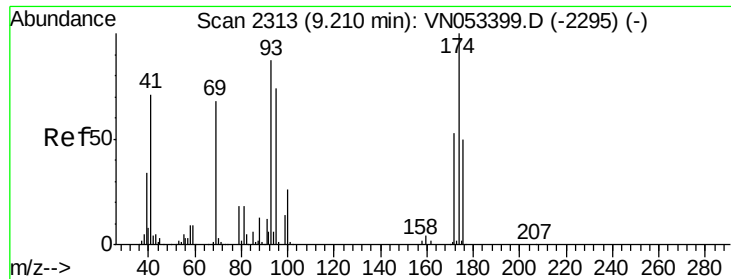
1000

0

9.05 9.10 9.15

Time-->





#46

Dibromomethane

Concen: 0.985 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

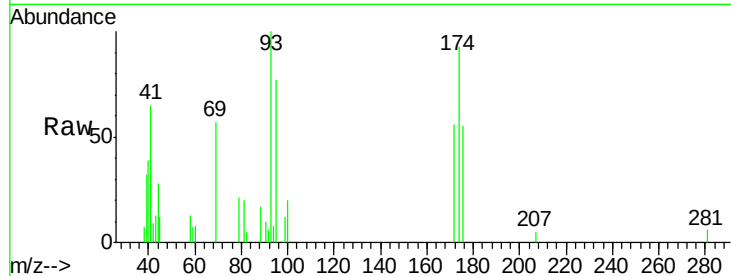
ClientSampleId :

VSTDIC001

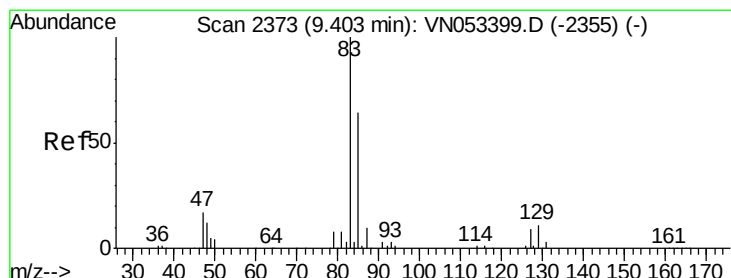
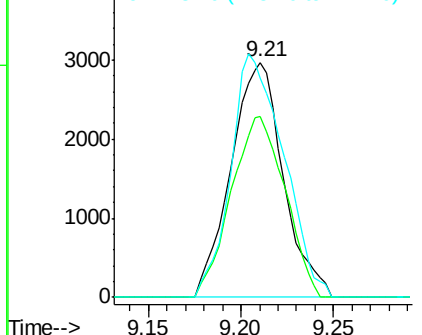
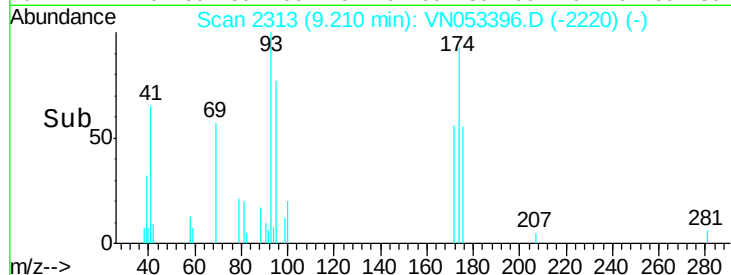
Tot Ion:	93	Resp:	5805
Ion	Ratio	Lower	Upper
93	100		
95	79.2	66.6	100.0
174	104.7	91.4	137.0

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:50:34 AM



Abundance Ion 92.80 (92.50 to 93.50): VN053396.D (-2220) (-)



#47

Bromodichloromethane

Concen: 0.950 ug/l

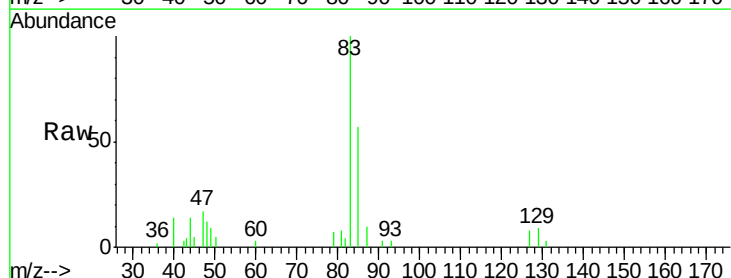
RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

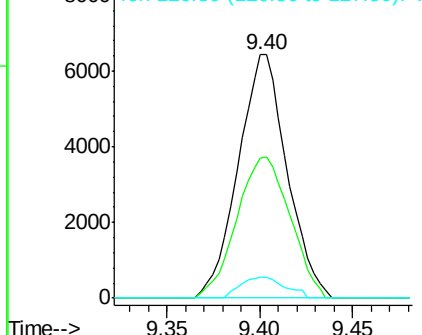
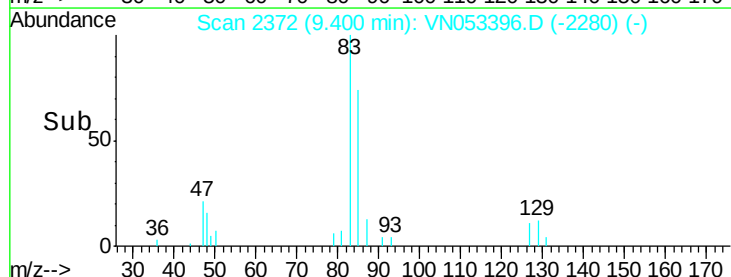
Lab File: VN053396.D

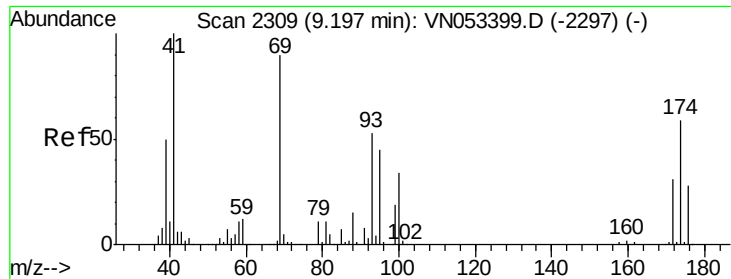
Acq: 15 Jan 2019 9:16

Tgt Ion:	83	Resp:	11773
Ion	Ratio	Lower	Upper
83	100		
85	57.4	51.7	77.5
127	8.5	7.0	10.6



Abundance Ion 82.90 (82.60 to 83.60): VN053396.D (-2280) (-)





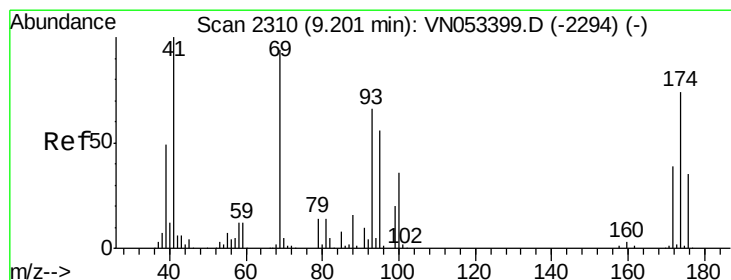
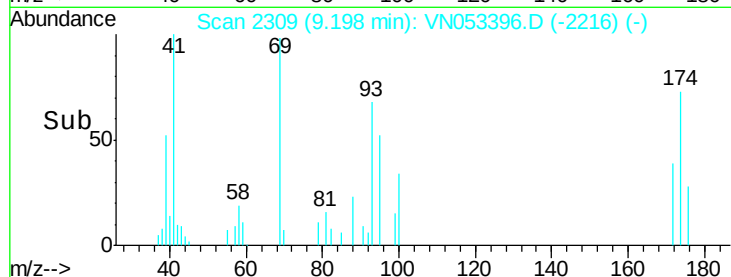
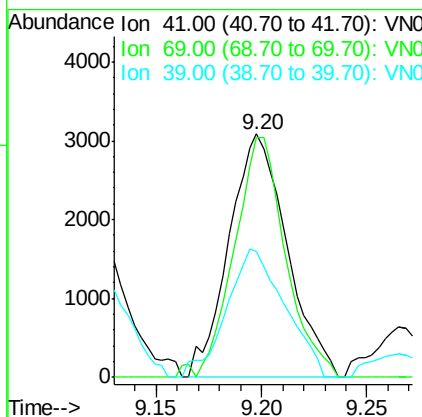
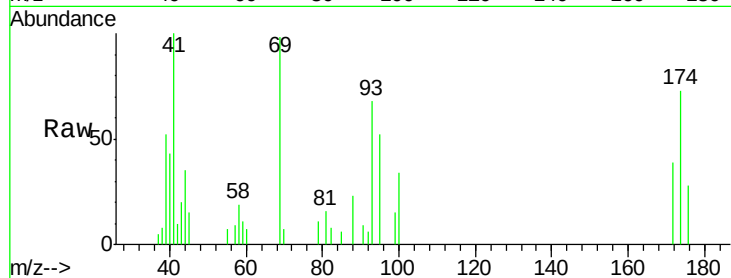
#48
Methvl methacrylate
Concen: 0.867 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
41	100		
69	86.7	73.5	110.3
39	52.9	41.6	62.4

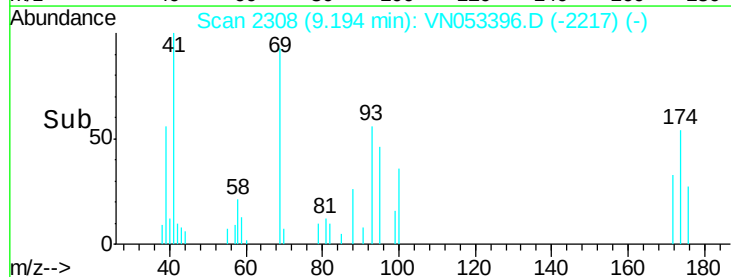
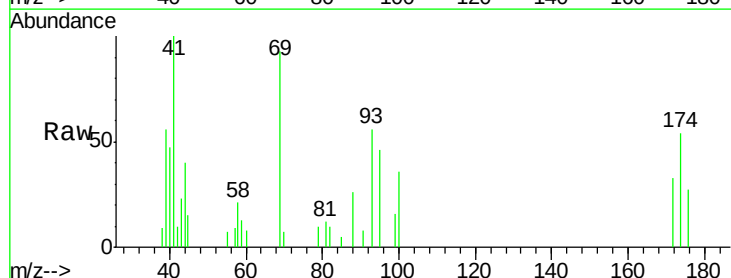
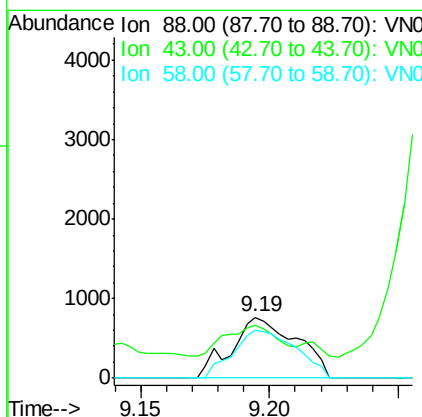
Manual Integrations
APPROVED

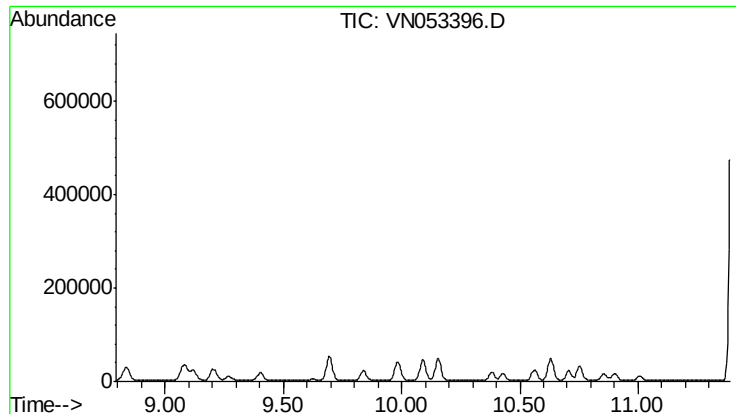
MMDadoda
1/16/2019 9:50:34 AM



#49
1,4-Dioxane
Concen: 20.138 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. -0.01 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
88	100		
43	41.2	26.2	39.4#
58	76.6	55.5	83.3





#50
Toluene-d8
Concen: 20.138 ug/l
Expected RT: 10.09 min

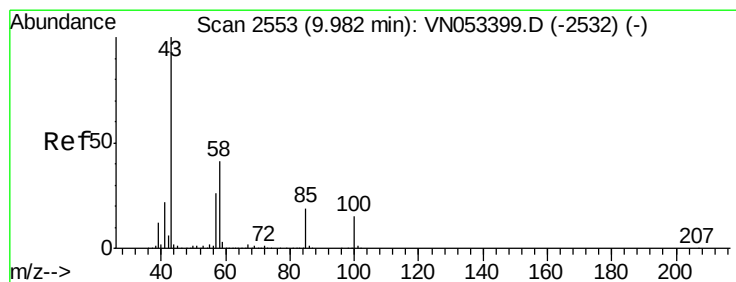
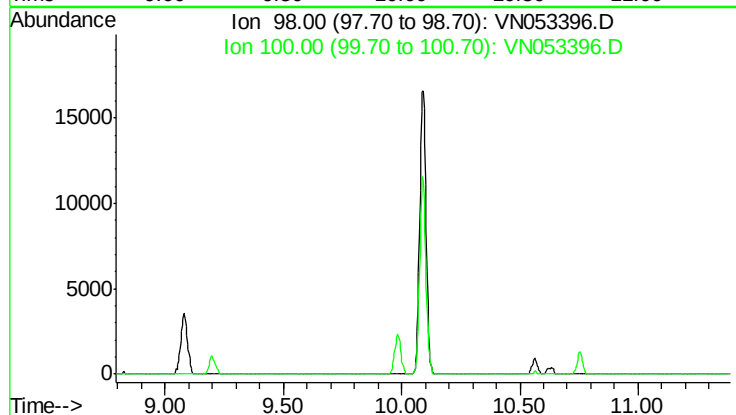
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

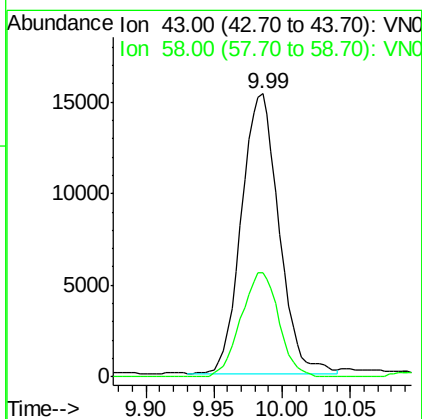
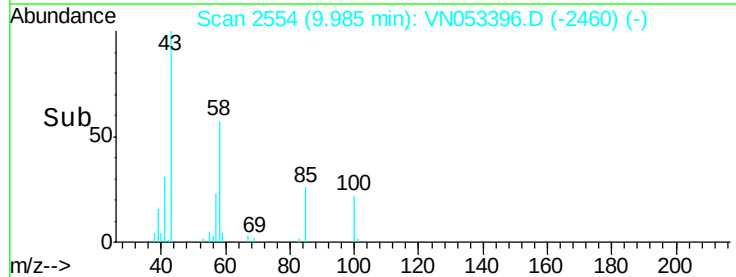
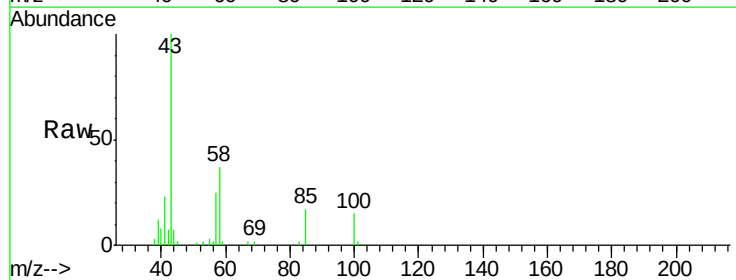
MMDadoda
1/16/2019 9:50:34 AM

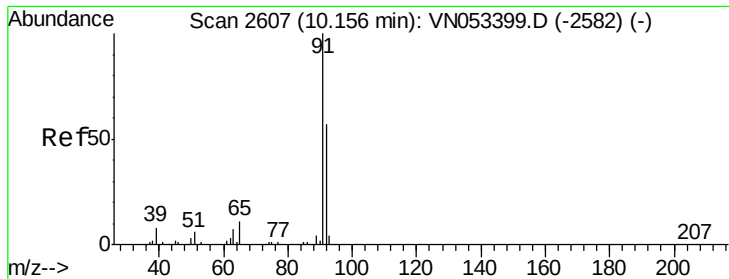
Tot Ion: 98
Sig Exp Ratio
98 100
100 64.4



#51
4-Methyl-2-Pentanone
Concen: 4.057 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion: 43 Resp: 29204
Ion Ratio Lower Upper
43 100
58 37.4 32.7 49.1





#52

Toluene

Concen: 0.907 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 92 Resp: 21821

Ion Ratio Lower Upper

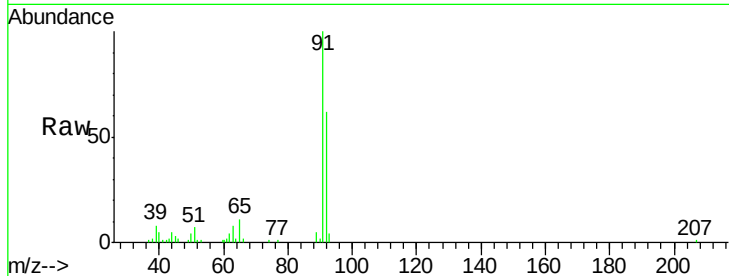
92 100

91 168.2 138.6 208.0

Manual Integrations
APPROVED

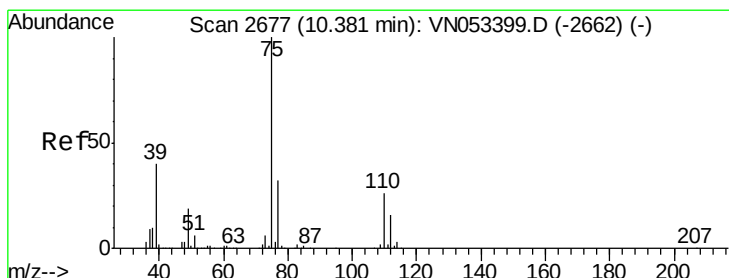
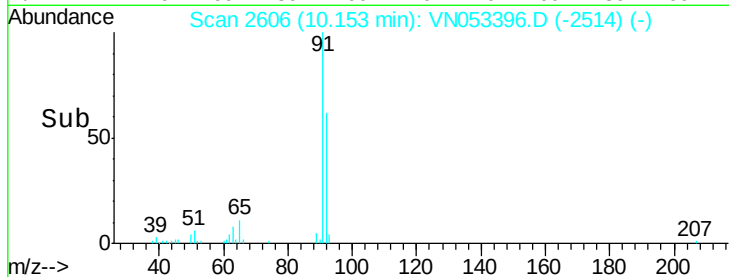
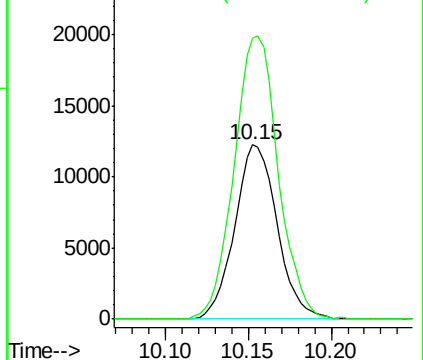
MMDadoda

1/16/2019 9:50:34 AM



Abundance Ion 92.00 (91.70 to 92.70): VN053399.D (-2582) (-)

Ion 91.00 (90.70 to 91.70): VN053399.D (-2582) (-)



#53

t-1,3-Dichloropropene

Concen: 0.831 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053396.D

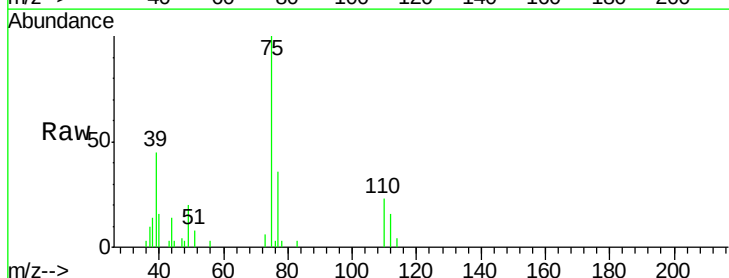
Acq: 15 Jan 2019 9:16

Tgt Ion: 75 Resp: 10443

Ion Ratio Lower Upper

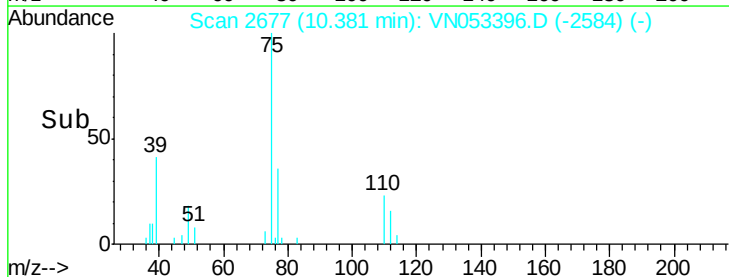
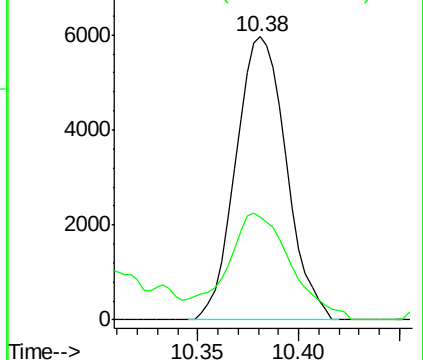
75 100

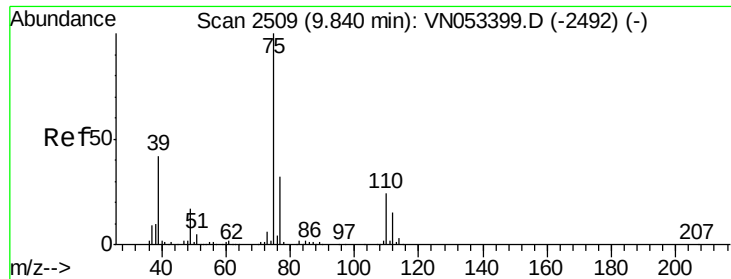
77 33.1 25.0 37.4



Abundance Ion 74.90 (74.60 to 75.60): VN053399.D (-2662) (-)

Ion 76.90 (76.60 to 77.60): VN053399.D (-2662) (-)





#54

cis-1,3-Dichloropropene

Concen: 0.881 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

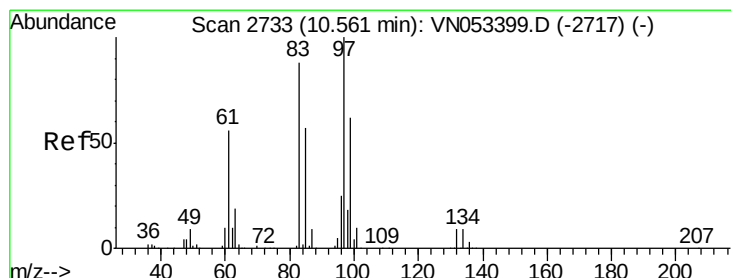
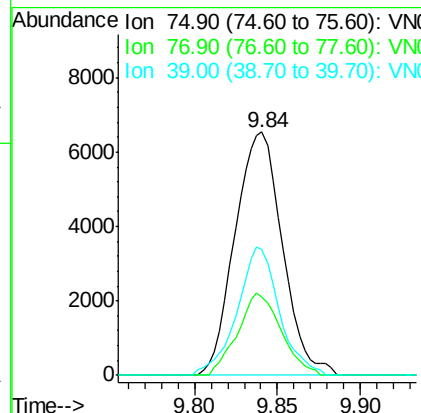
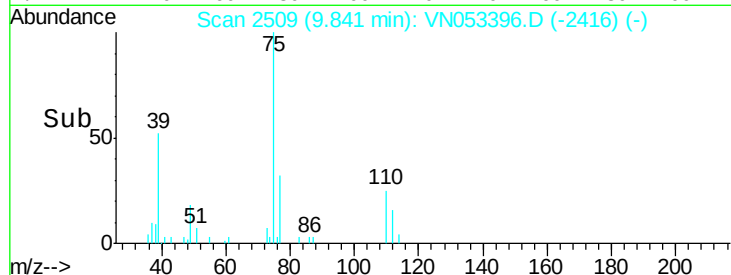
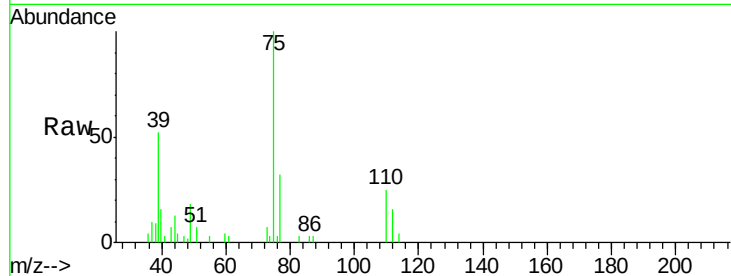
ClientSampleId :

VSTDIC001

Tot Ion:	75	Resp:	12972
Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.1	37.7
39	51.6	33.1	49.7#

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:50:34 AM



#55

1,1,2-Trichloroethane

Concen: 0.877 ug/l

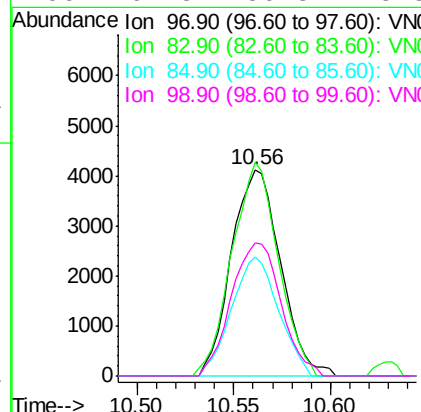
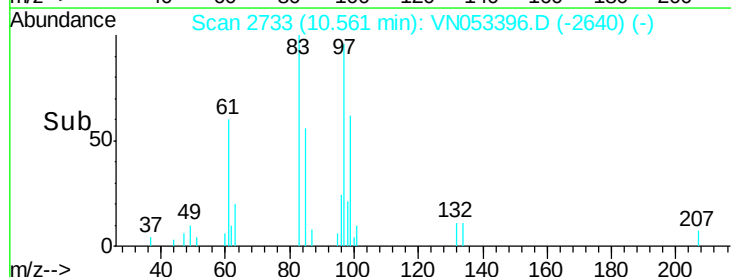
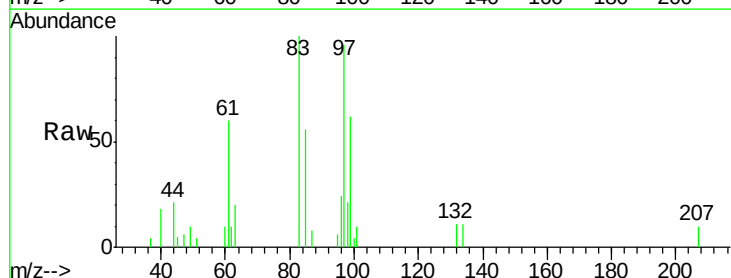
RT: 10.56 min Scan# 2733

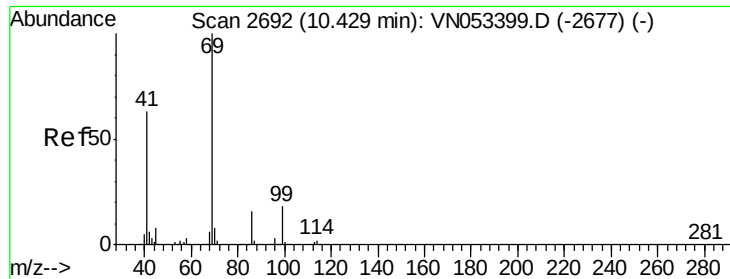
Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tgt Ion:	97	Resp:	7268
Ion	Ratio	Lower	Upper
97	100		
83	103.6	69.1	103.7
85	57.6	44.2	66.4
99	64.3	50.3	75.5





#56

Ethyl methacrylate

Concen: 2.705 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

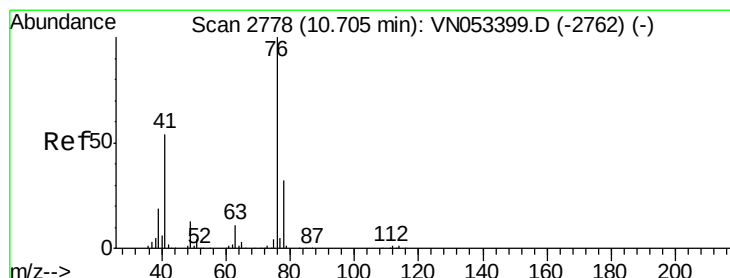
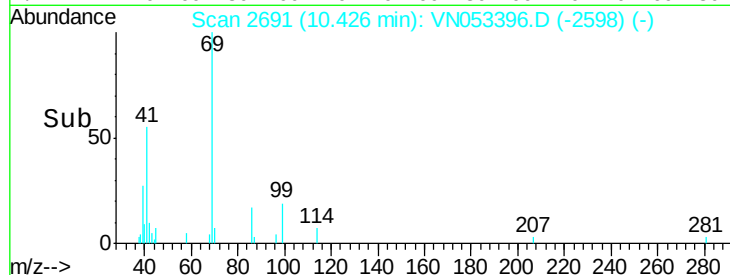
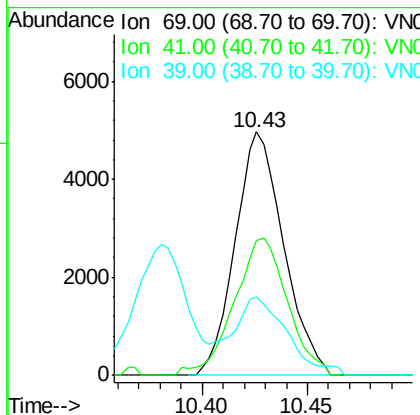
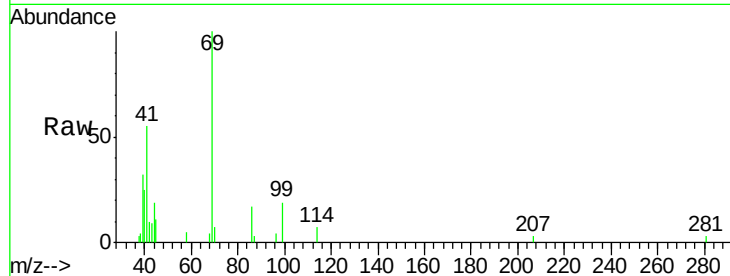
ClientSampleId :

VSTDIC001

Tot Ion:	69	Resp:	7944
Ion	Ratio	Lower	Upper
69	100		
41	61.9	49.2	73.8
39	35.1	23.4	35.0#

Manual Integrations
APPROVED

MMDadoda
1/16/2019 9:50:34 AM



#57

1,3-Dichloropropane

Concen: 0.880 ug/l

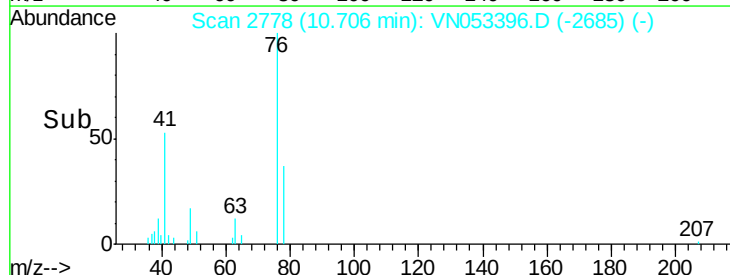
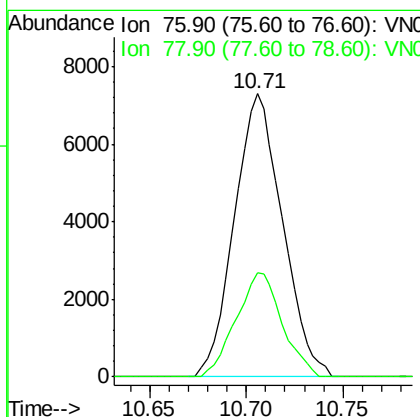
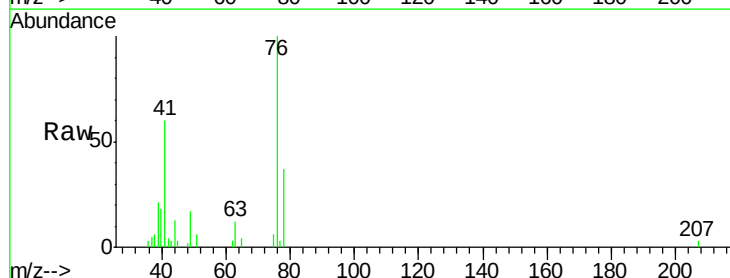
RT: 10.71 min Scan# 2778

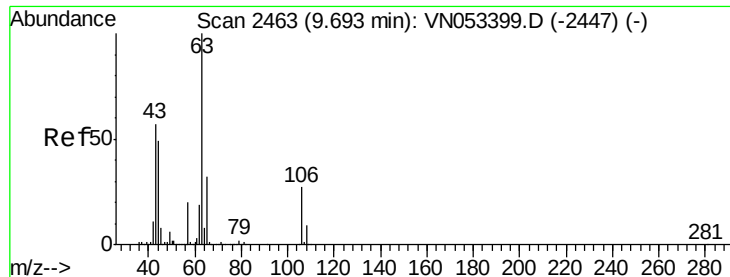
Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tgt Ion:	76	Resp:	12618
Ion	Ratio	Lower	Upper
76	100		
78	35.2	25.8	38.8





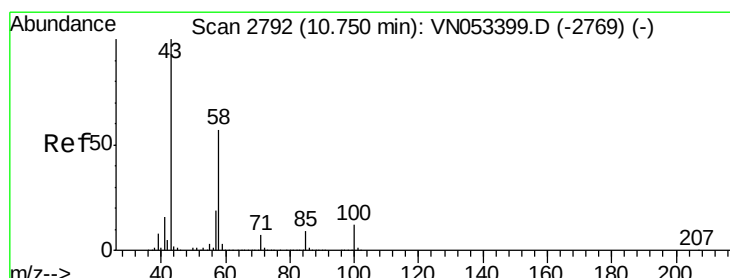
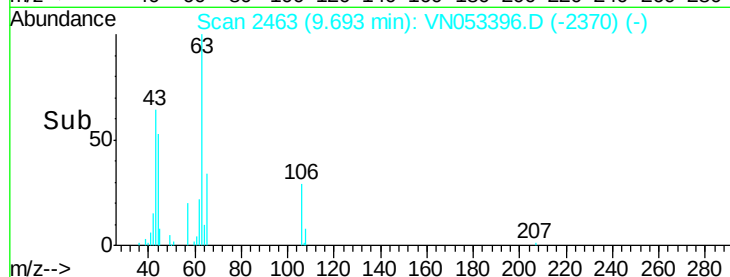
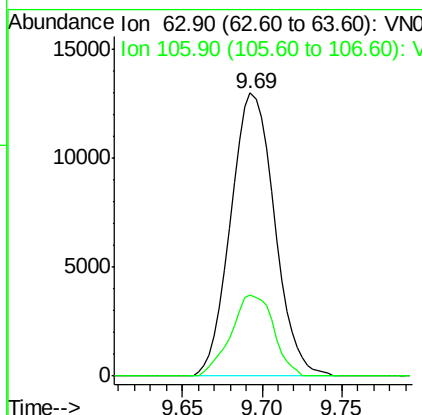
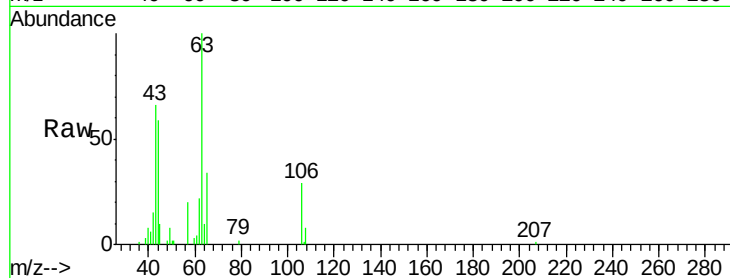
#58
2-Chloroethyl Vinyl ether
Concen: 4.194 ug/l
RT: 9.69 min Scan# 2463
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion: 63 Resp: 24322
Ion Ratio Lower Upper
63 100
106 27.8 21.7 32.5

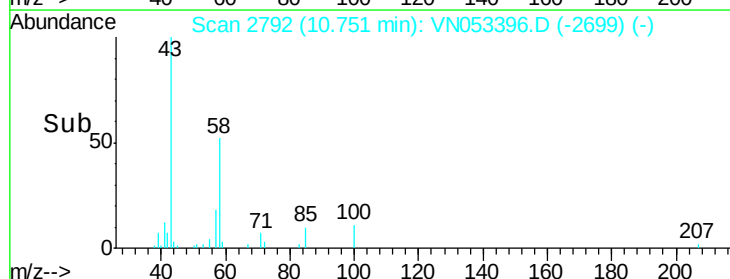
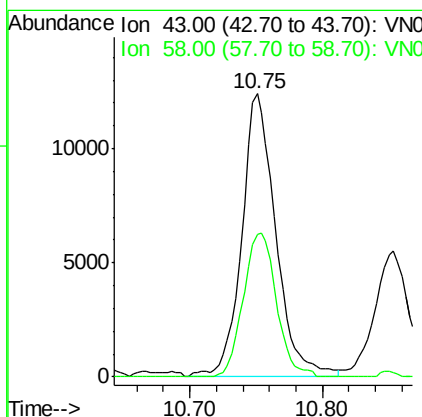
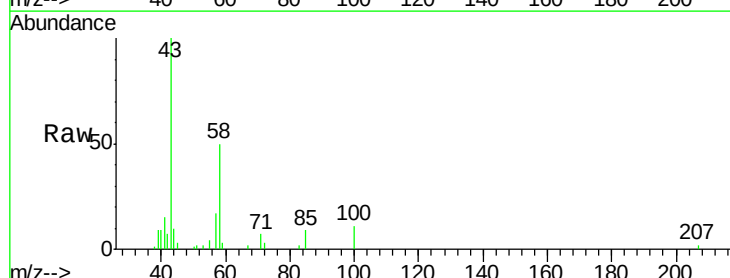
Manual Integrations
APPROVED

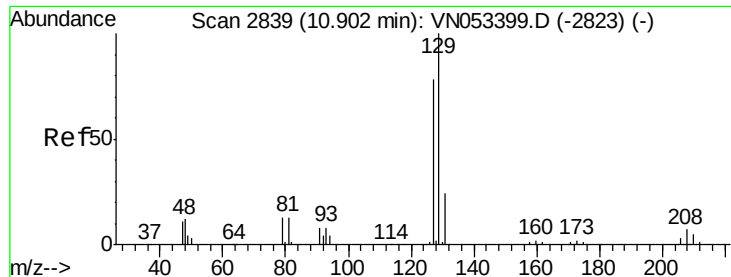
MMDadoda
1/16/2019 9:50:34 AM



#59
2-Hexanone
Concen: 4.387 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion: 43 Resp: 22170
Ion Ratio Lower Upper
43 100
58 49.3 28.3 85.0





#60

Dibromochloromethane

Concen: 0.901 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion:129 Resp: 8469

Ion Ratio Lower Upper

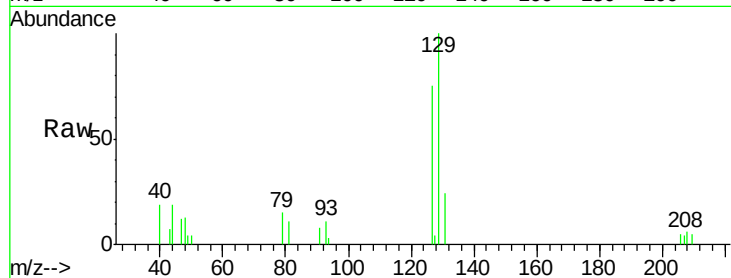
129 100

127 77.3 38.4 115.2

Manual Integrations
APPROVED

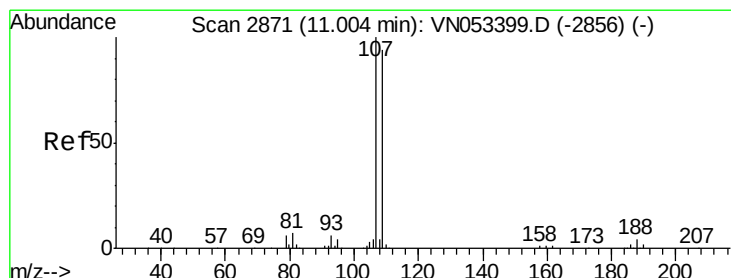
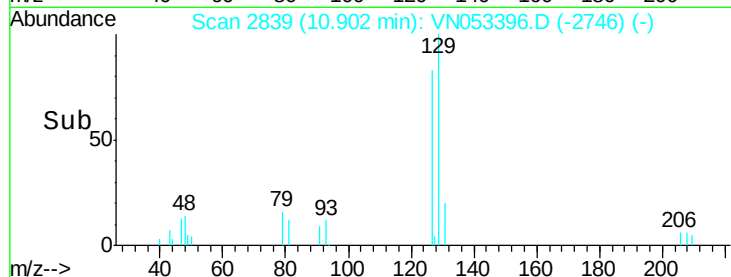
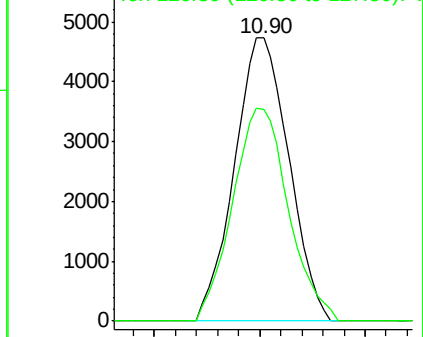
MMDadoda

1/16/2019 9:50:34 AM



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 0.849 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN053396.D

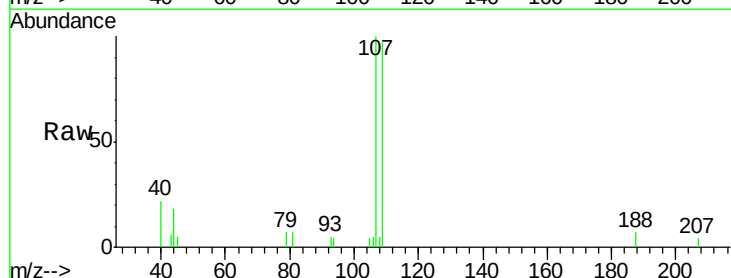
Acq: 15 Jan 2019 9:16

Tgt Ion:107 Resp: 7120

Ion Ratio Lower Upper

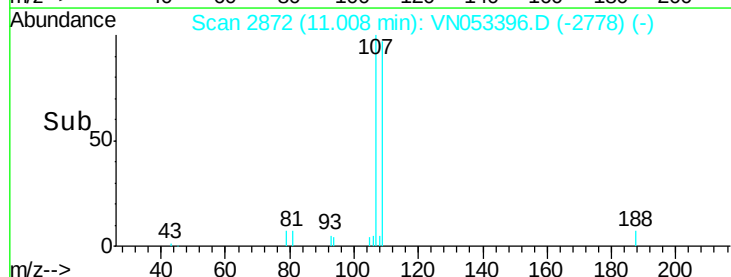
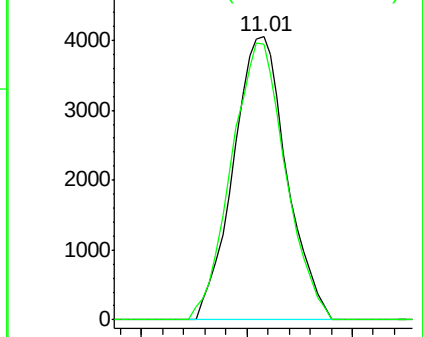
107 100

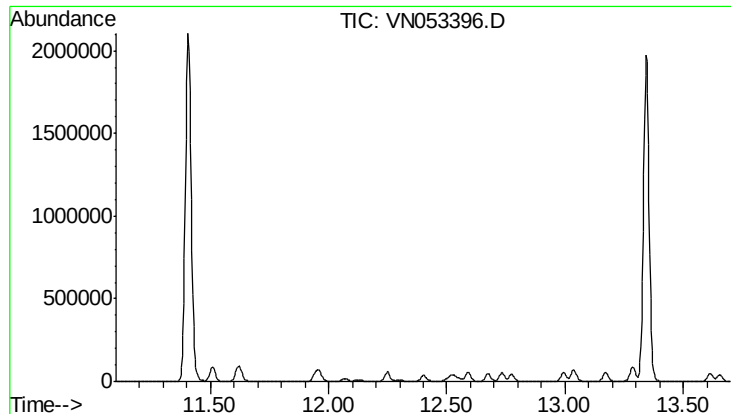
109 99.4 75.0 112.6



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





#62

4-Bromofluorobenzene

Concen: 0.849 ug/l

Expected RT: 12.40 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tot Ion: 95

Sig Exp Ratio

95 100

174 90.2

176 87.8

Instrument :

MSVOA_N

ClientSampleId :

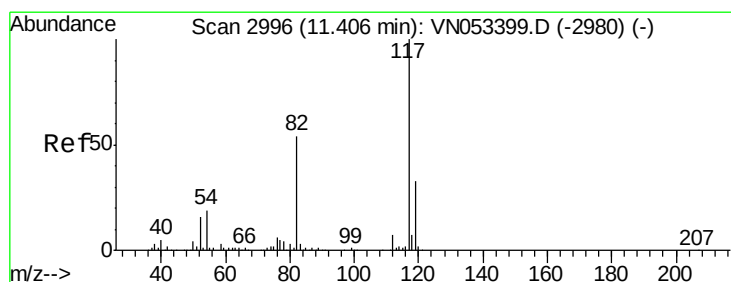
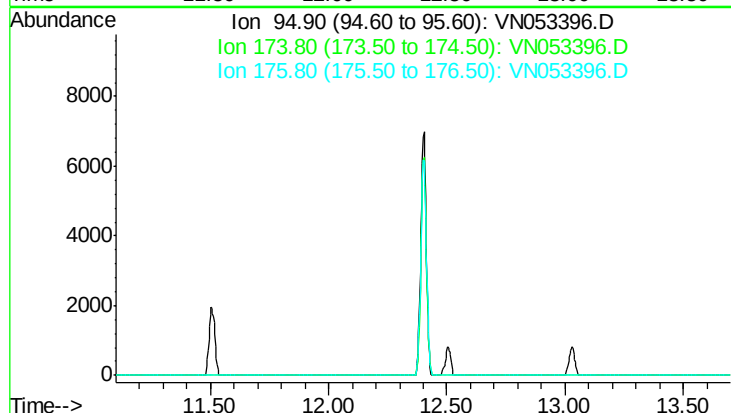
VSTDIC001

Manual Integrations

APPROVED

MMDadoda

1/16/2019 9:50:34 AM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

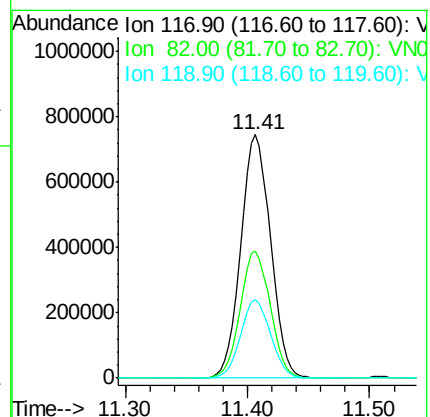
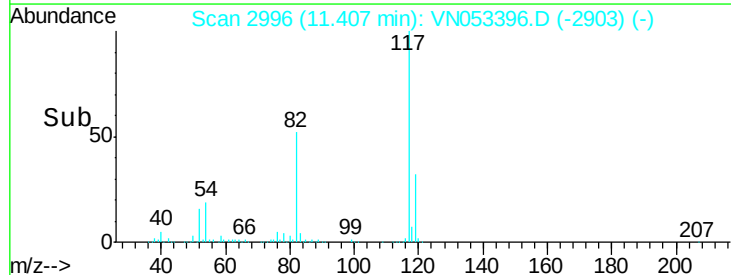
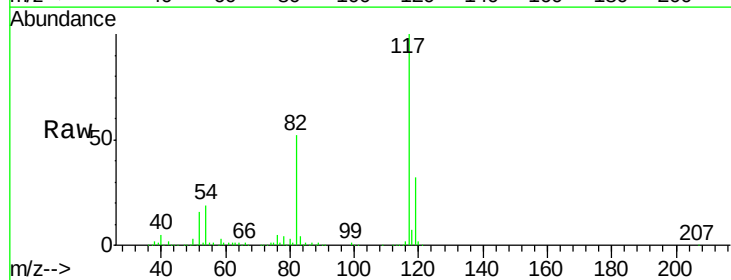
Tgt Ion:117 Resp: 1257362

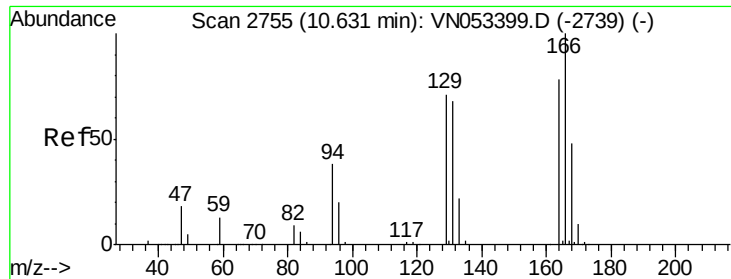
Ion Ratio Lower Upper

117 100

82 52.2 42.9 64.3

119 32.3 25.6 38.4





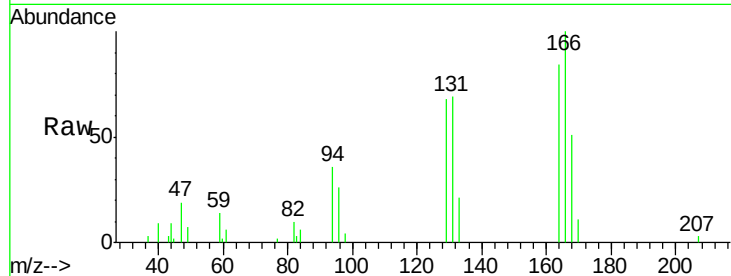
#64
Tetrachloroethene
Concen: 1.059 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

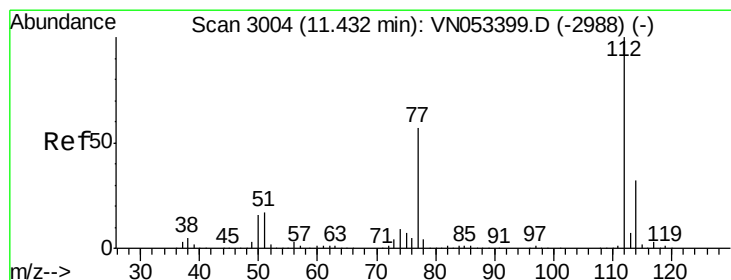
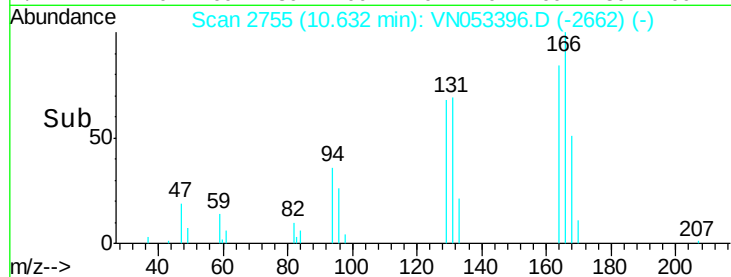
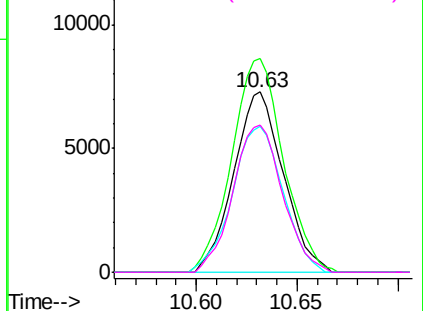
Tot Ion	Ratio	Lower	Upper
164	100		
166	118.4	101.7	152.5
129	80.7	72.1	108.1
131	81.3	69.9	104.9

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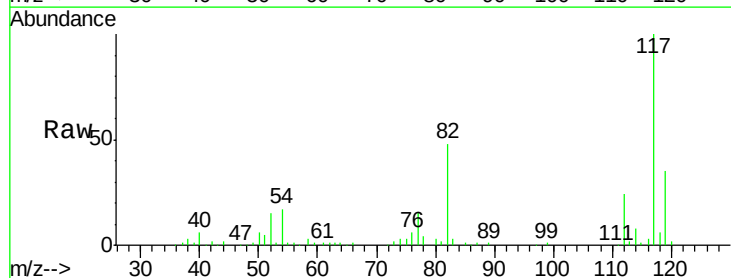


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

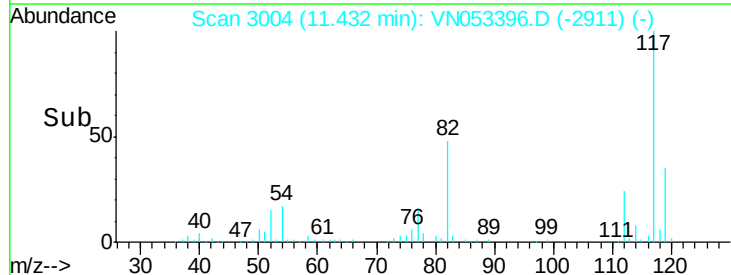
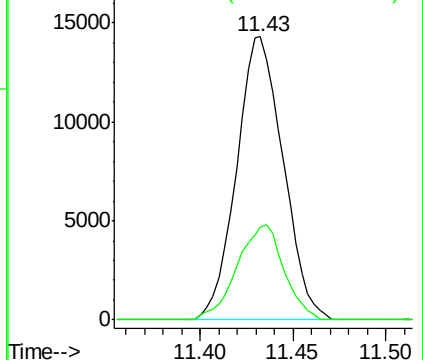


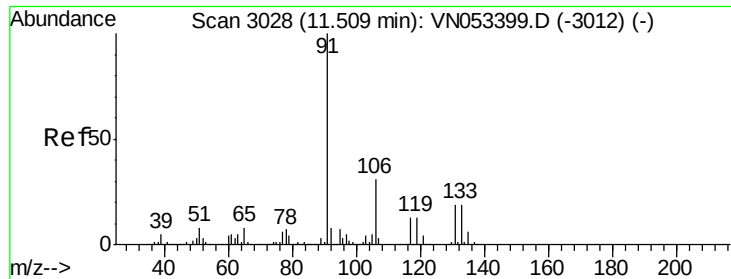
#65
Chlorobenzene
Concen: 0.937 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.6	38.4



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





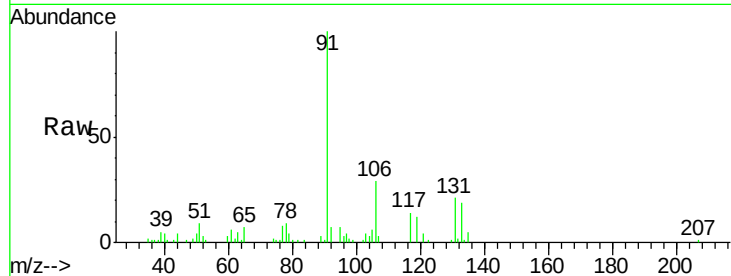
#66
 1,1,1,2-Tetrachloroethane
 Concen: 0.951 ug/l
 RT: 11.51 min Scan# 3029
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

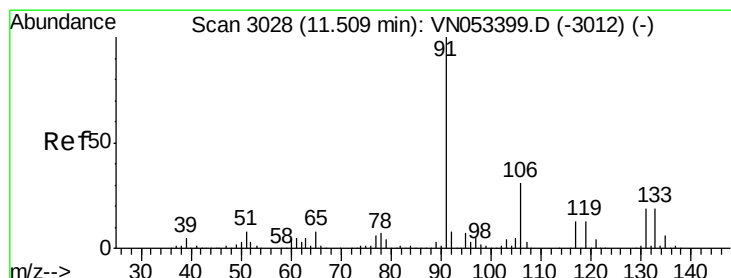
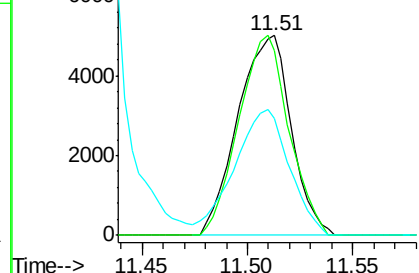
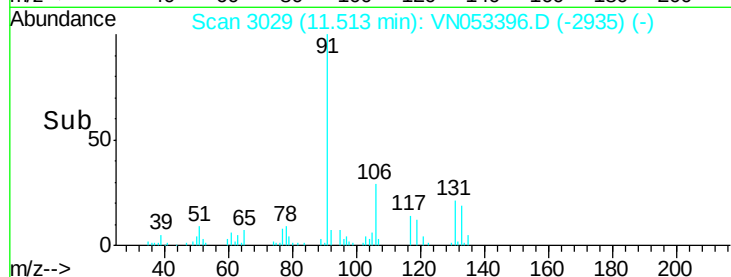
Tot Ion	Ratio	Lower	Upper
131	100		
133	94.3	48.0	144.0
119	0.0	33.3	99.9#

Manual Integrations
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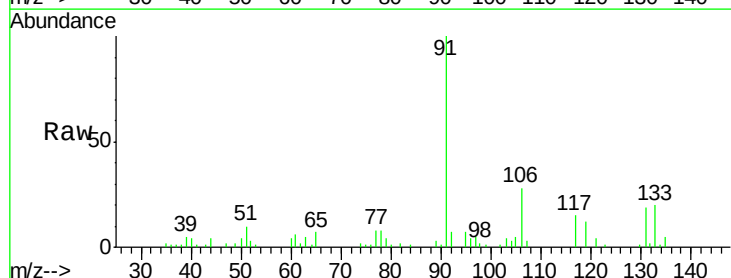


Abundance Ion 130.80 (130.50 to 131.50): V
 Ion 132.80 (132.50 to 133.50): V
 Ion 118.80 (118.50 to 119.50): V

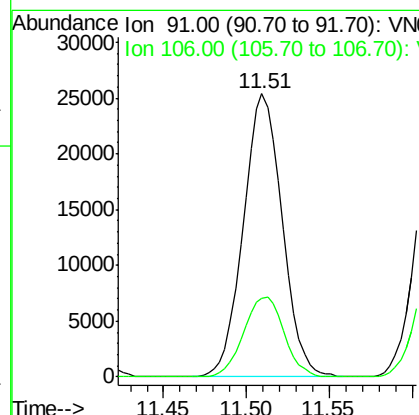
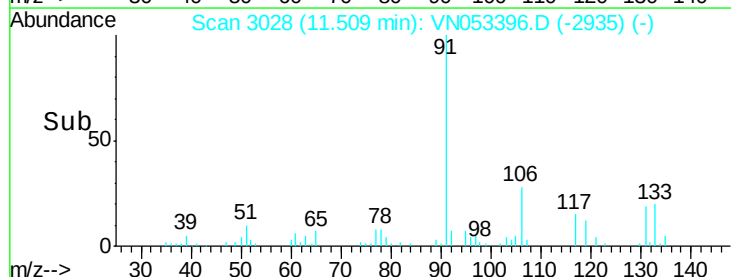


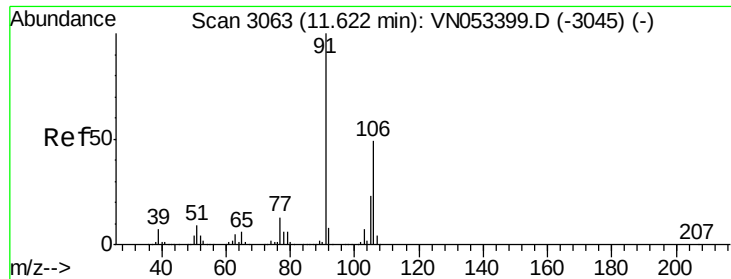
#67
 Ethyl Benzene
 Concen: 0.913 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.8	25.0	37.4



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





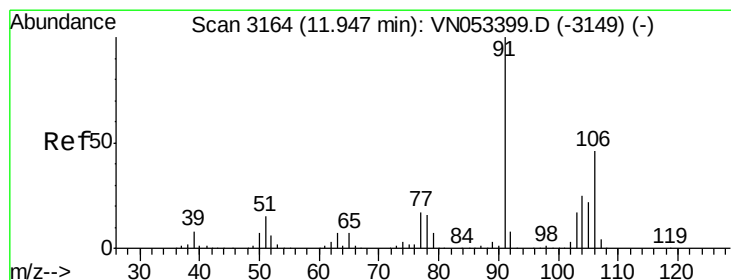
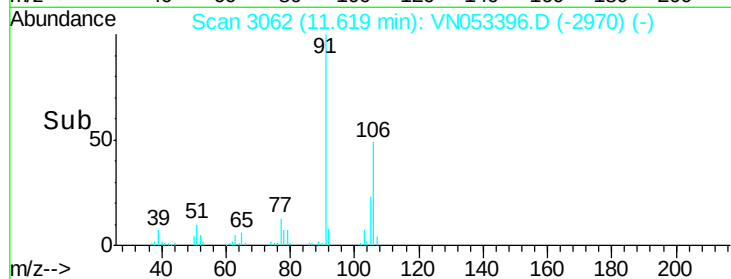
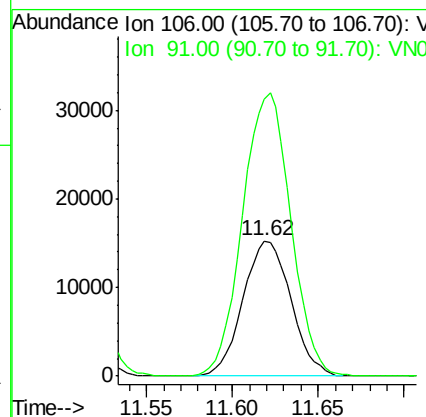
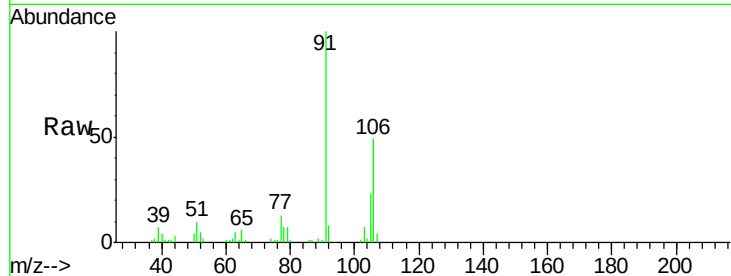
#68
m/p-Xylenes
Concen: 1.729 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion:106 Resp: 29603
Ion Ratio Lower Upper
106 100
91 210.4 161.4 242.2

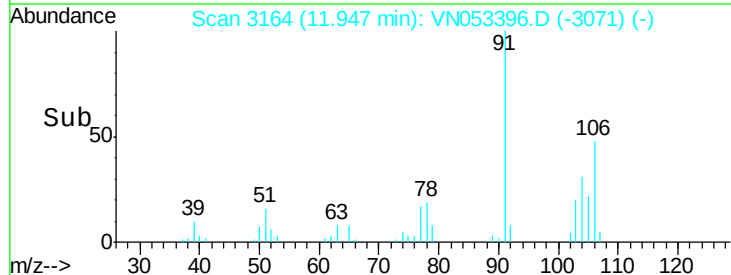
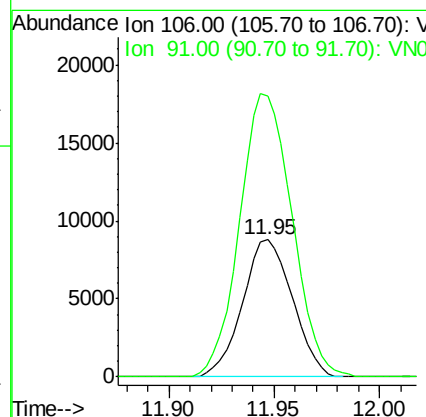
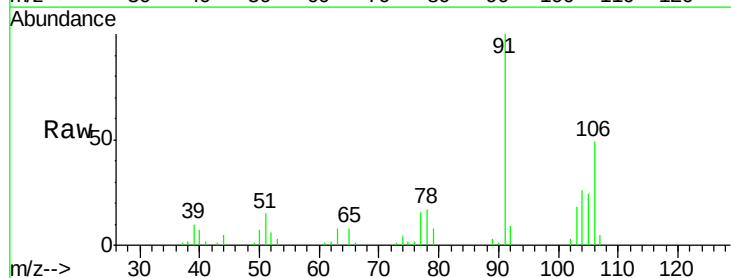
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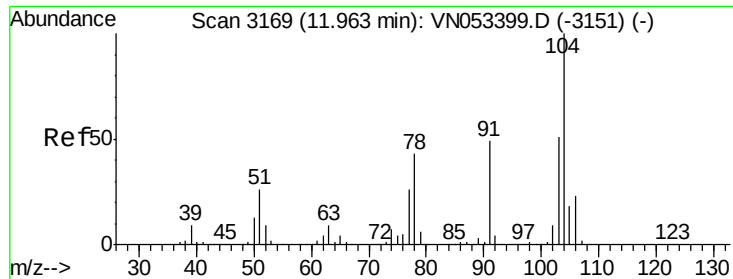
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#69
o-Xylene
Concen: 0.869 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion:106 Resp: 14466
Ion Ratio Lower Upper
106 100
91 216.7 106.8 320.4





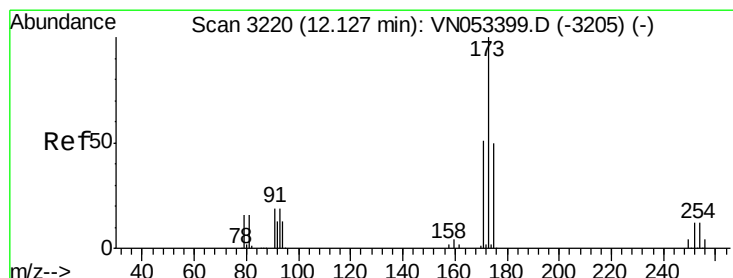
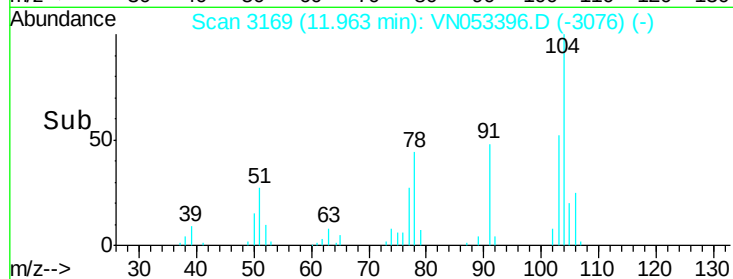
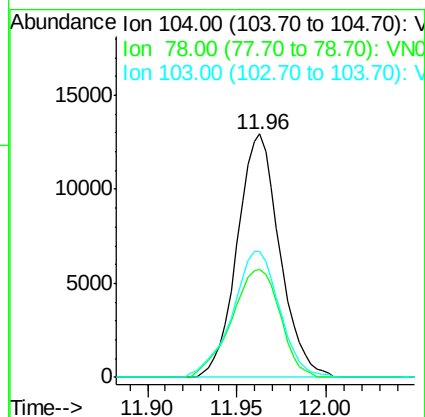
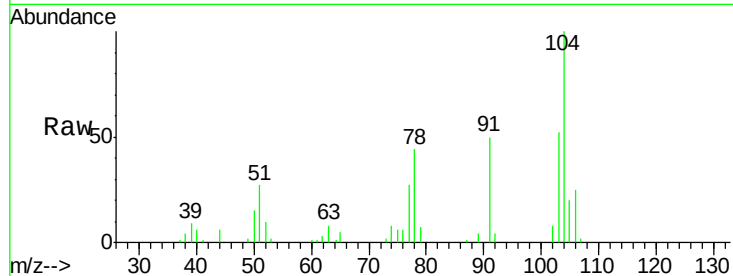
#70
Stvrene
Concen: 0.796 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.7	38.5	57.7
103	57.7	44.5	66.7

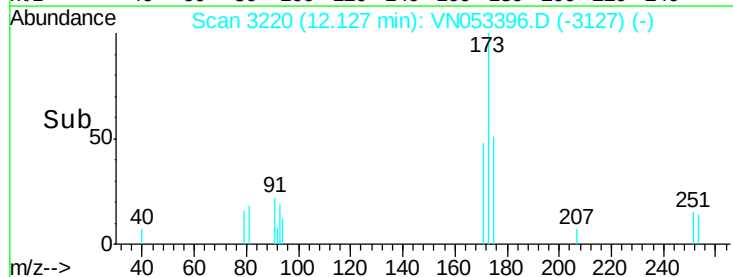
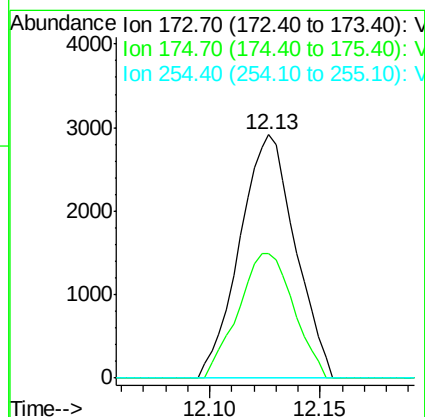
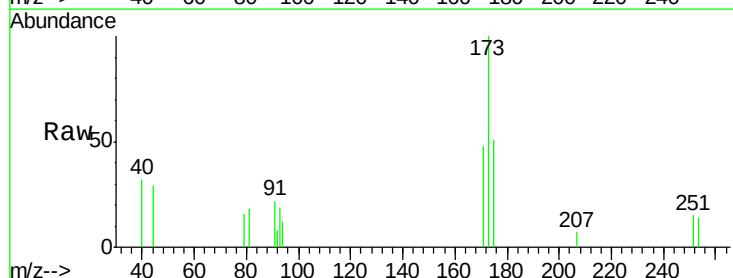
Manual Integrations
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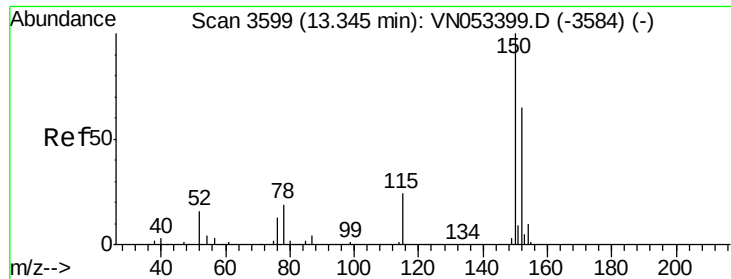
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#71
Bromoform
Concen: 0.799 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.9	24.3	72.8
254	0.0	0.2	0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:152 Resp: 570772

Ion Ratio Lower Upper

152 100

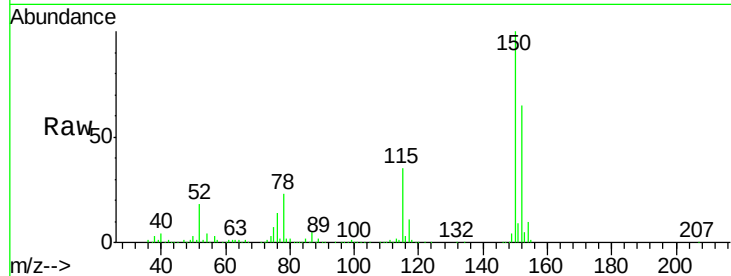
115 55.0 28.0 84.0

150 156.9 0.0 346.6

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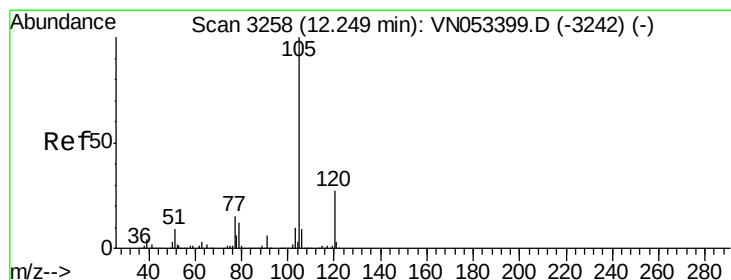
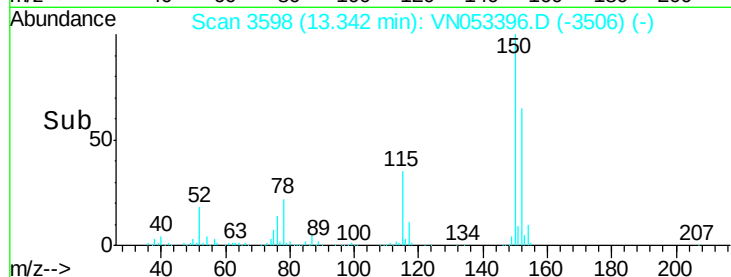
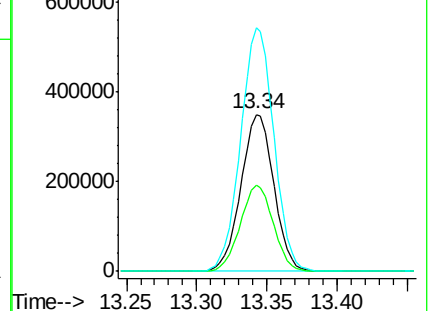
1/16/2019 9:50:34 AM



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: 0.896 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053396.D

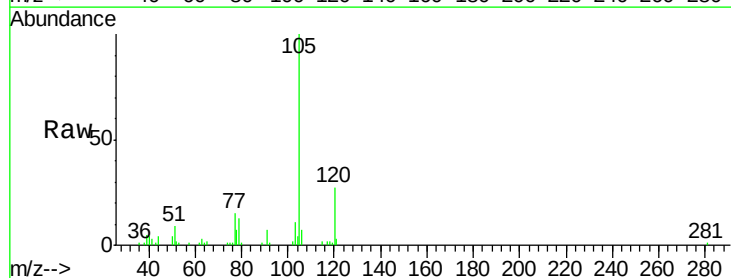
Acq: 15 Jan 2019 9:16

Tgt Ion:105 Resp: 37462

Ion Ratio Lower Upper

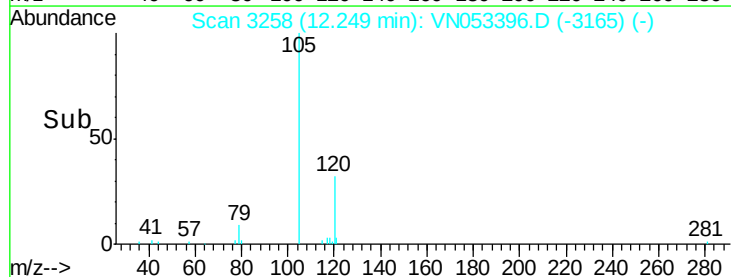
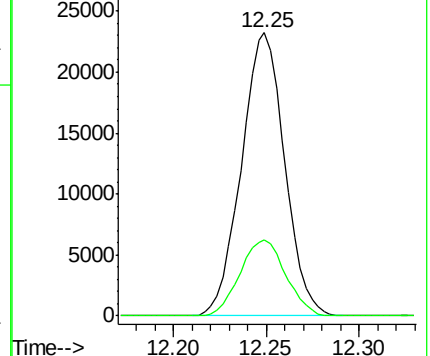
105 100

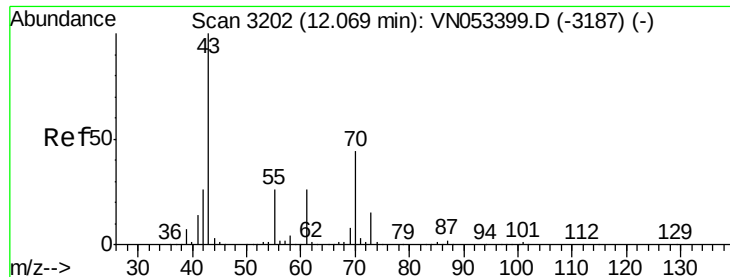
120 28.3 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.864 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

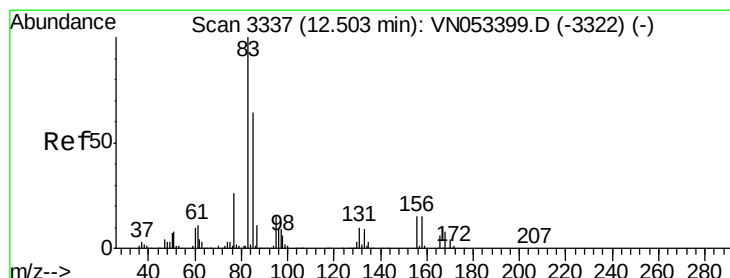
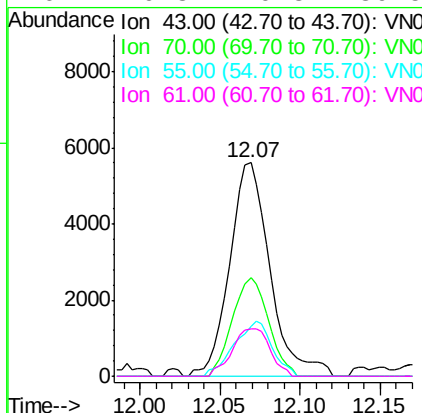
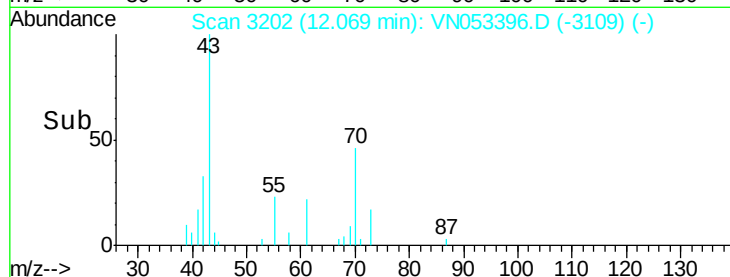
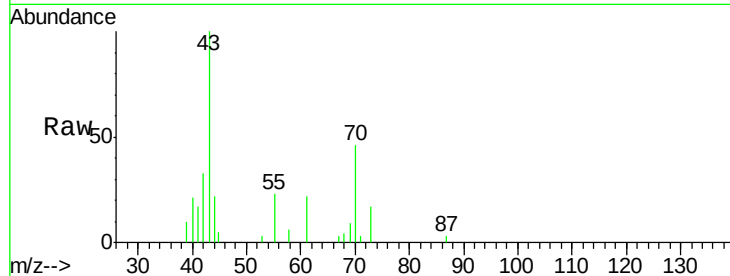
ClientSampled :

VSTDIC001

Tot Ion:	43	Resp:	9628
Ion	Ratio	Lower	Upper
43	100		
70	41.3	35.0	52.6
55	24.3	20.0	30.0
61	20.8	20.3	30.5

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#75

1,1,2,2-Tetrachloroethane

Concen: 0.932 ug/l

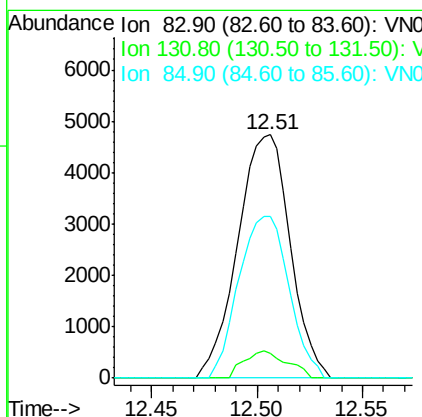
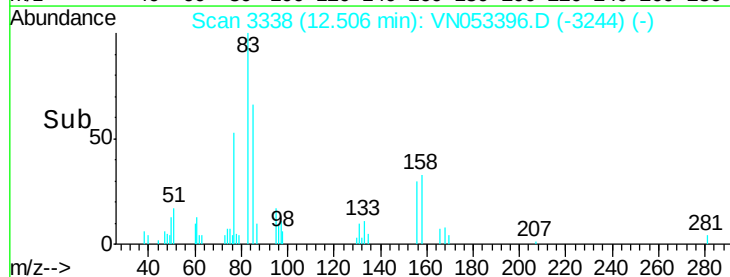
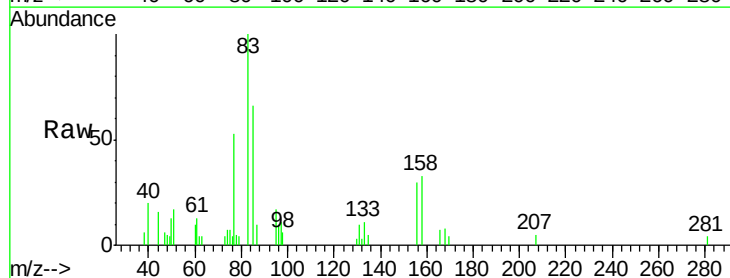
RT: 12.51 min Scan# 3338

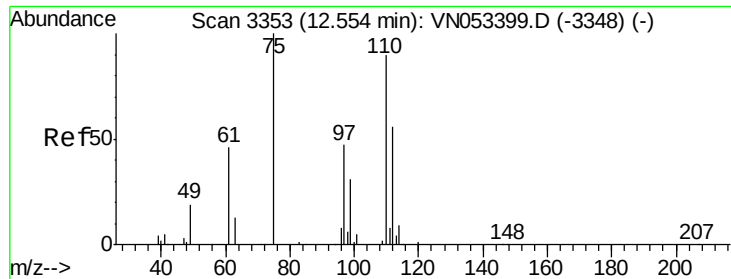
Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tgt Ion:	83	Resp:	8173
Ion	Ratio	Lower	Upper
83	100		
131	9.1	5.3	15.9
85	63.7	32.3	96.8





#76

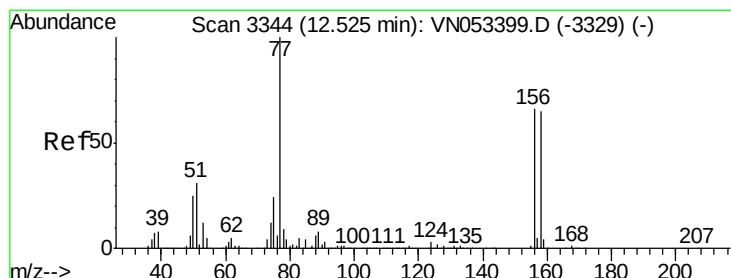
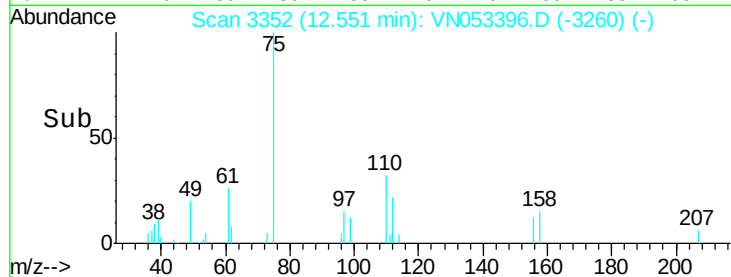
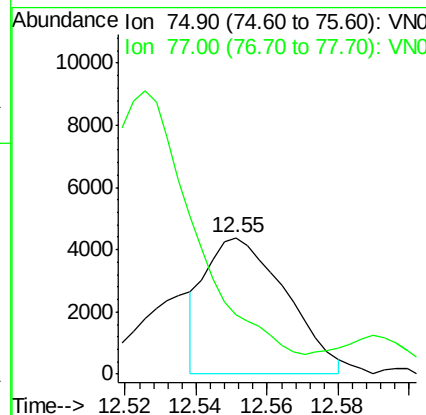
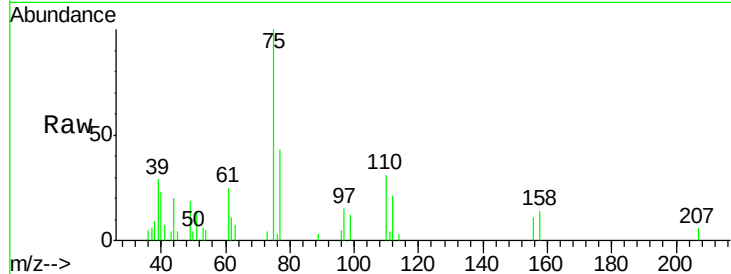
1,2,3-Trichloropropane
Concen: 0.958 ug/l m
RT: 12.55 min Scan# 3352
Delta R.T. -0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

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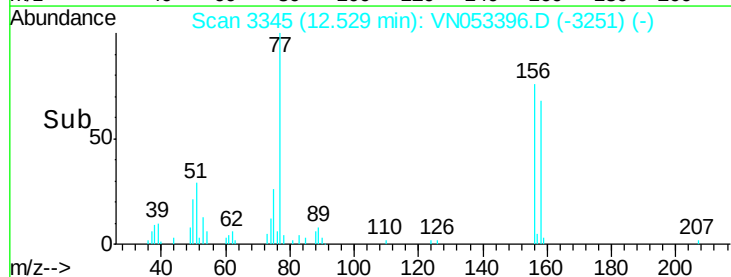
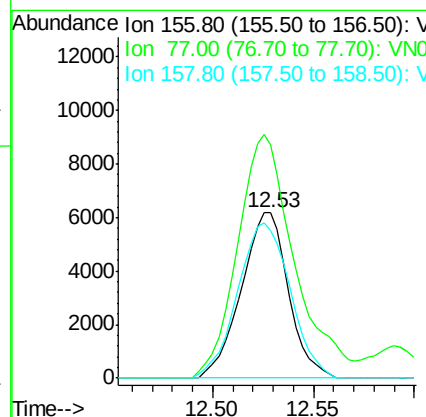
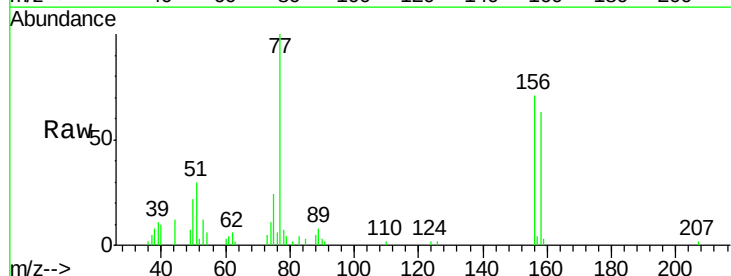
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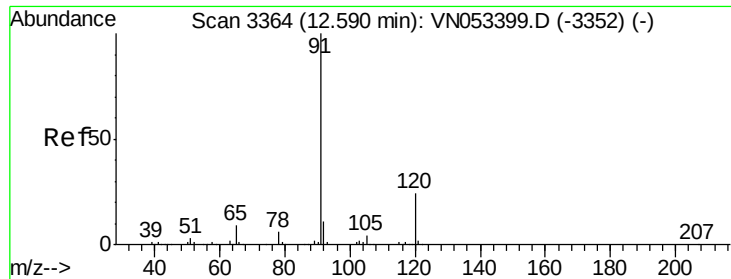


#77

Bromobenzene
Concen: 0.916 ug/l
RT: 12.53 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
156	100		
77	177.6	89.3	268.1
158	104.7	48.9	146.8





#78

n-propylbenzene

Concen: 0.885 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 91 Resp: 42449

Ion Ratio Lower Upper

91 100

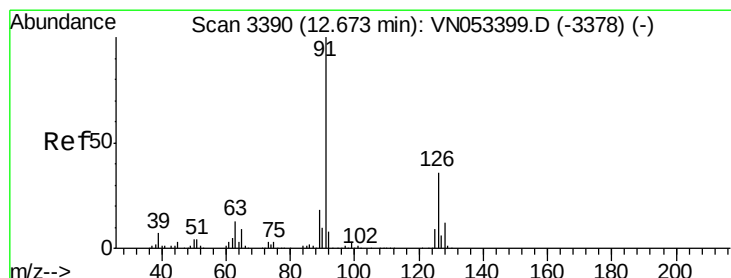
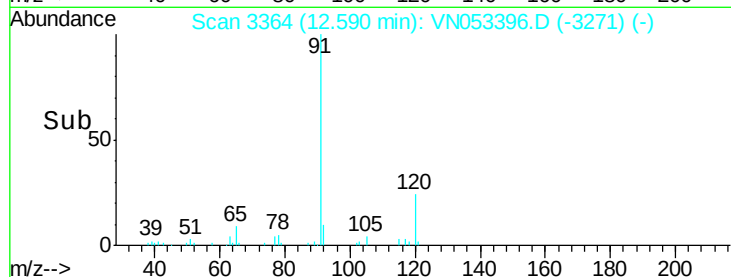
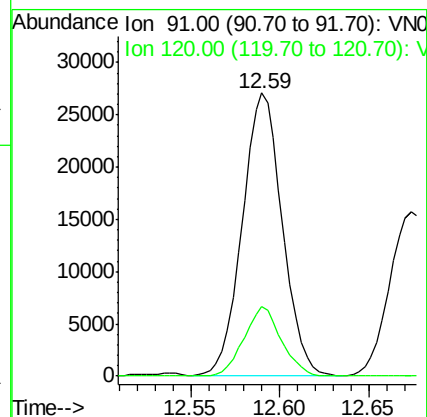
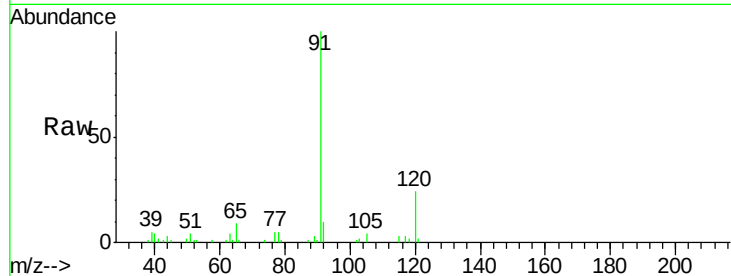
120 22.9 11.5 34.5

Manual Integrations

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#79

2-Chlorotoluene

Concen: 0.943 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN053396.D

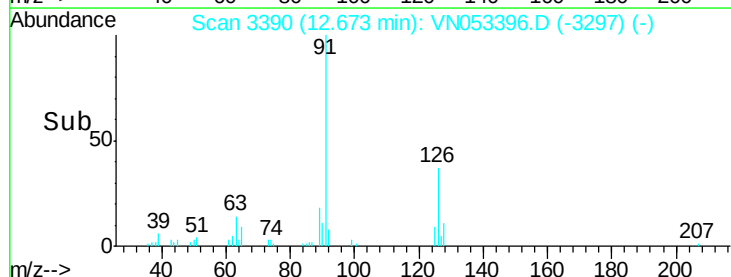
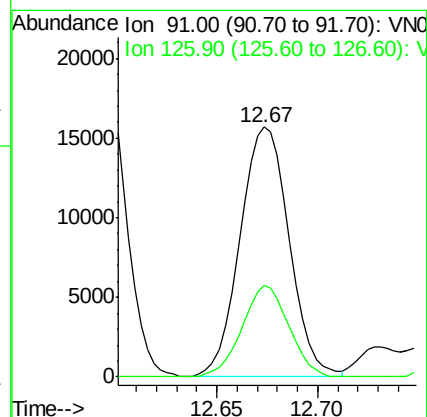
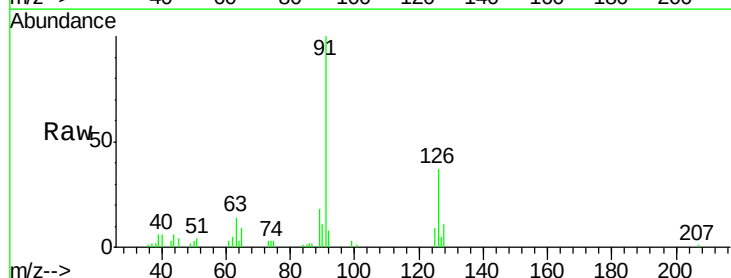
Acq: 15 Jan 2019 9:16

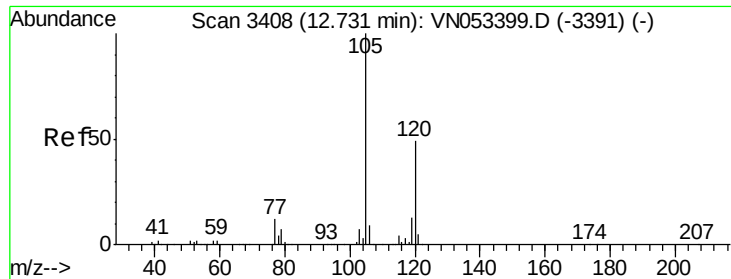
Tgt Ion: 91 Resp: 26810

Ion Ratio Lower Upper

91 100

126 34.8 17.5 52.5





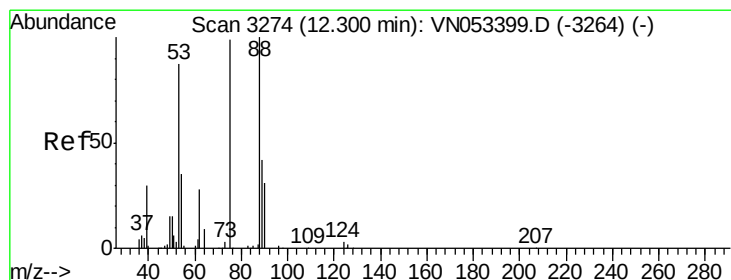
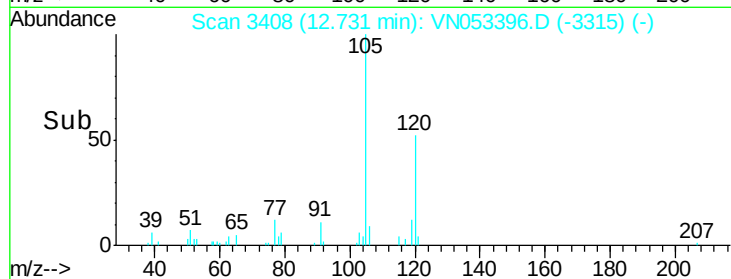
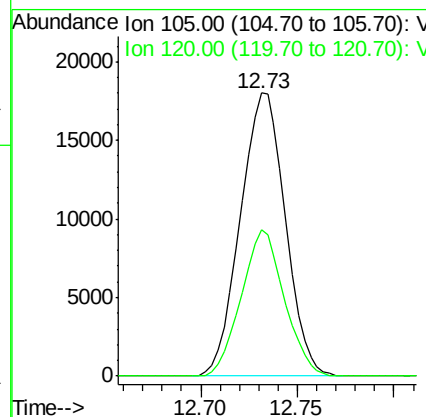
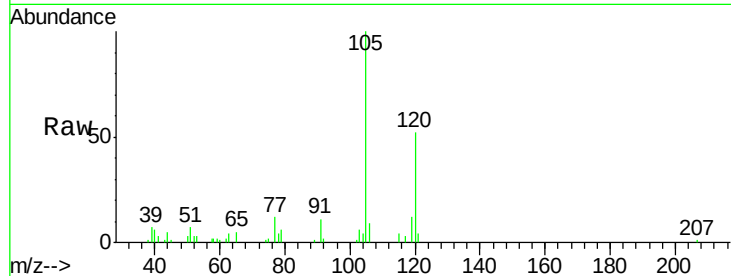
#80
 1,3,5-Trimethylbenzene
 Concen: 0.855 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.7	74.1

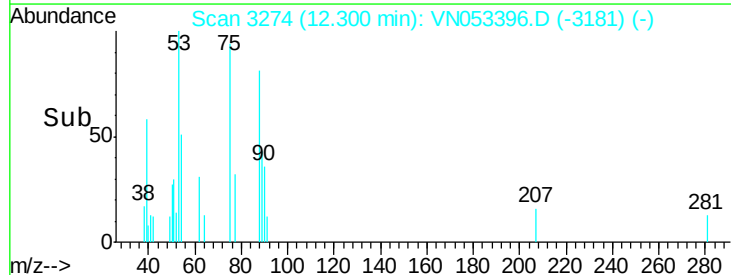
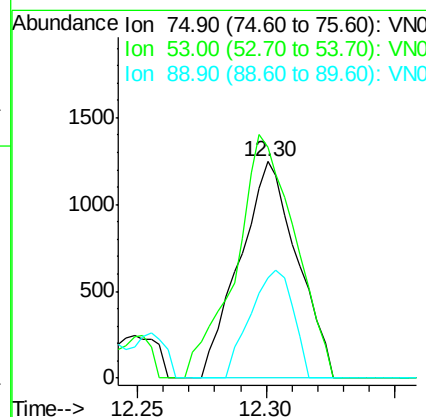
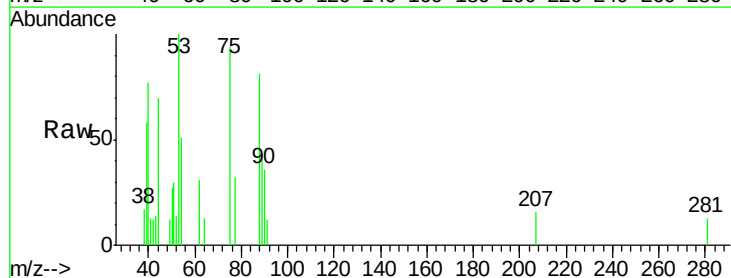
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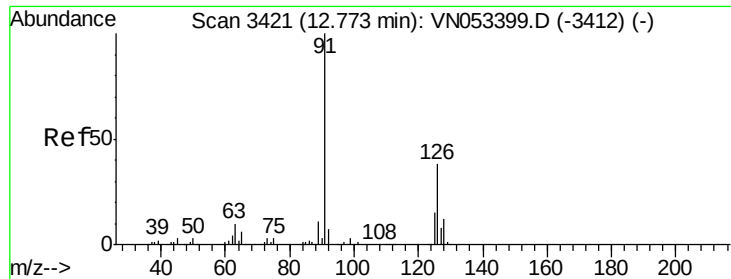
MMDadoda
 1/16/2019 9:50:34 AM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 3.152 ug/l
 RT: 12.30 min Scan# 3274
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
75	100		
53	115.9	70.5	105.7#
89	37.2	35.4	53.0





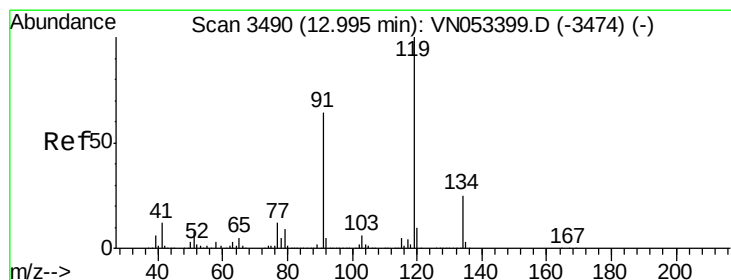
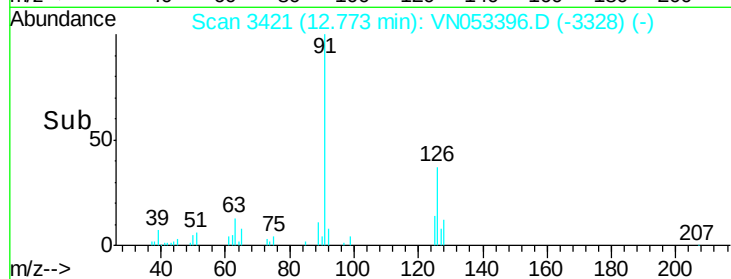
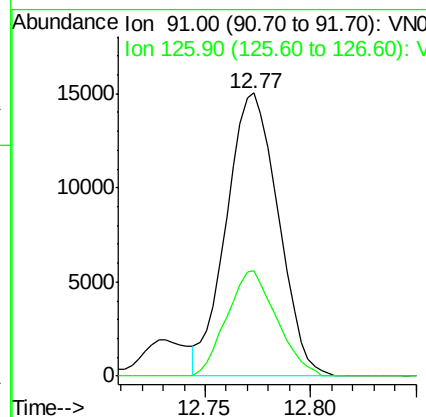
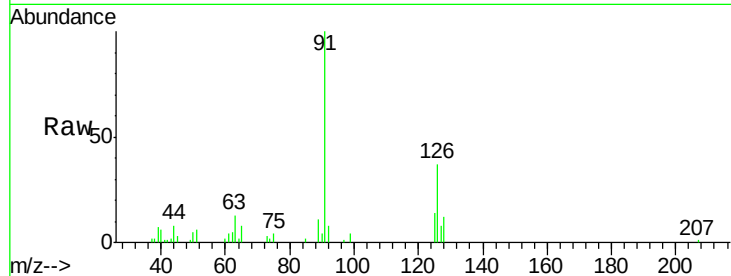
#82
4-Chlorotoluene
Concen: 0.885 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 91 Resp: 25653
Ion Ratio Lower Upper
91 100
126 35.7 17.4 52.2

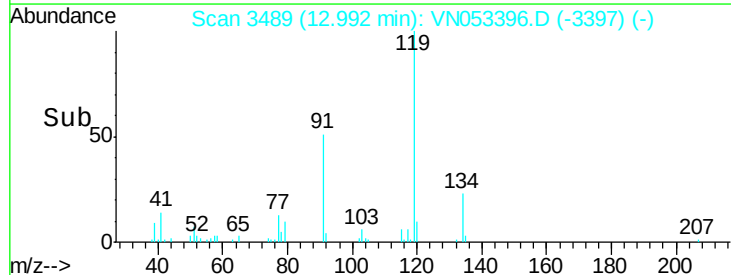
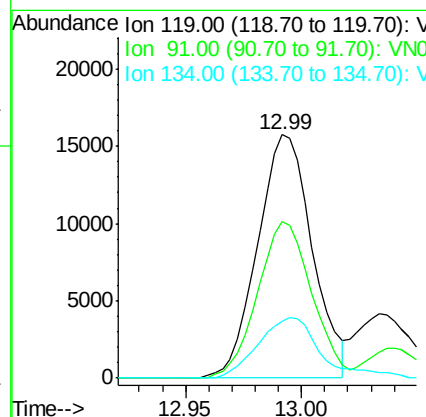
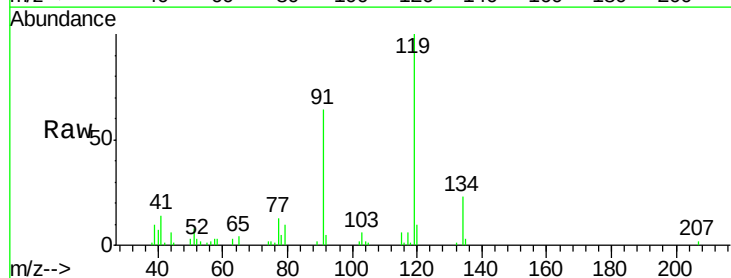
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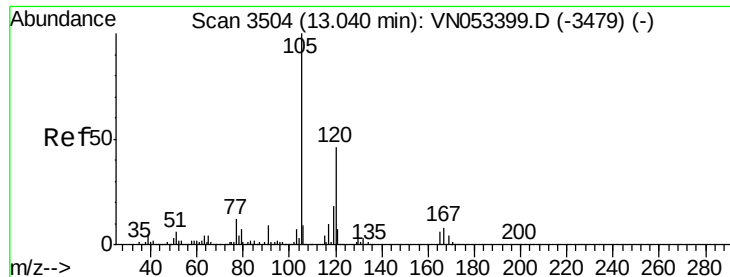
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#83
tert-Butylbenzene
Concen: 0.858 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion: 119 Resp: 25784
Ion Ratio Lower Upper
119 100
91 63.7 31.6 95.0
134 28.5 12.9 38.6





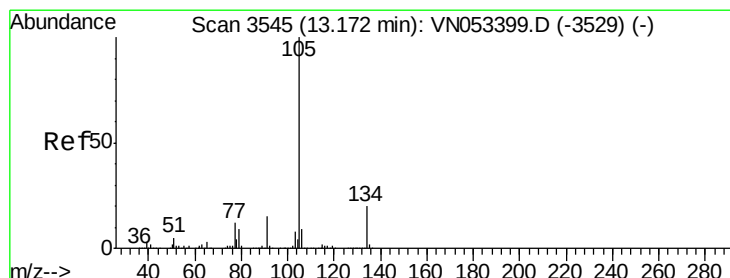
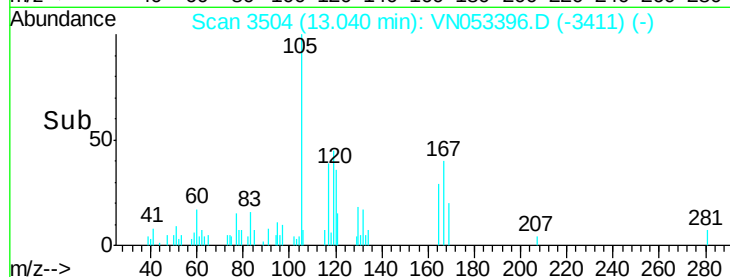
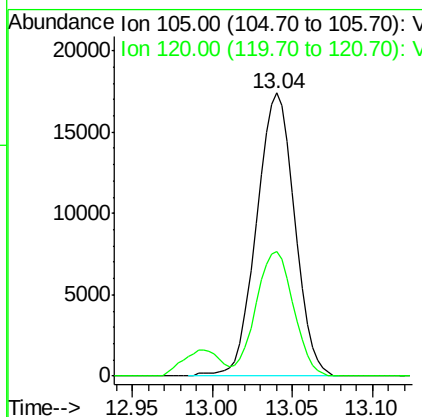
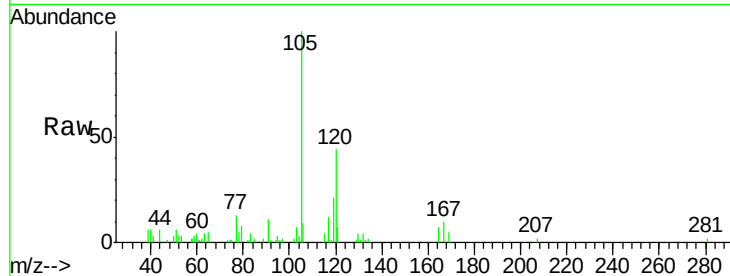
#84
 1,2,4-Trimethylbenzene
 Concen: 0.836 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.7	23.0	69.0

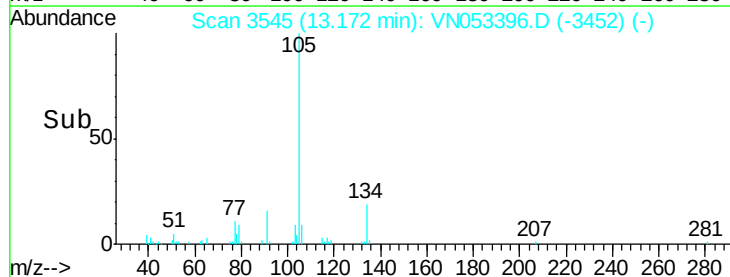
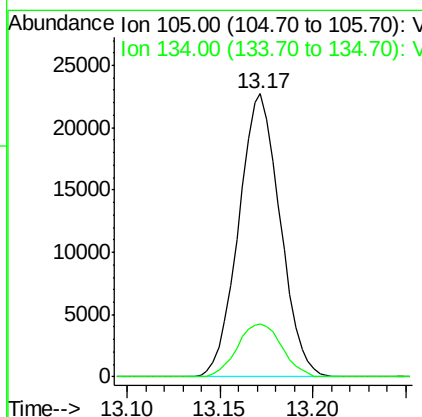
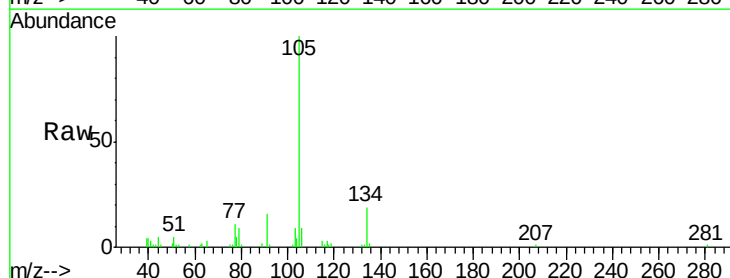
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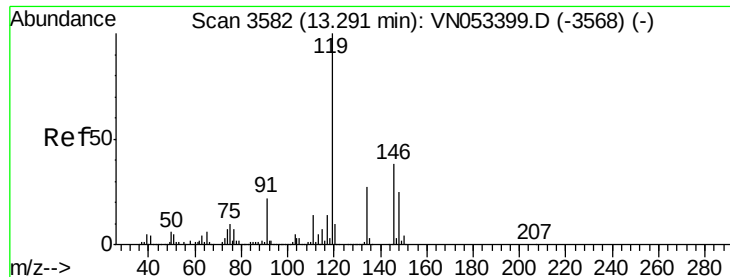
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#85
 sec-Butylbenzene
 Concen: 0.857 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.2	30.6





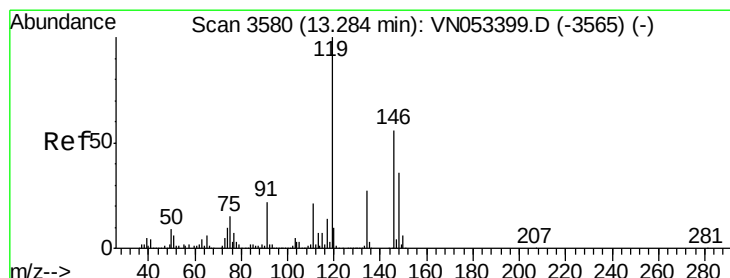
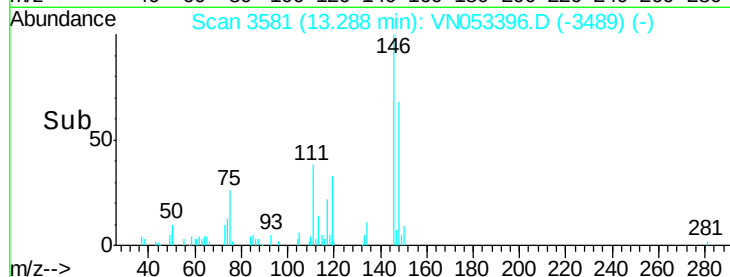
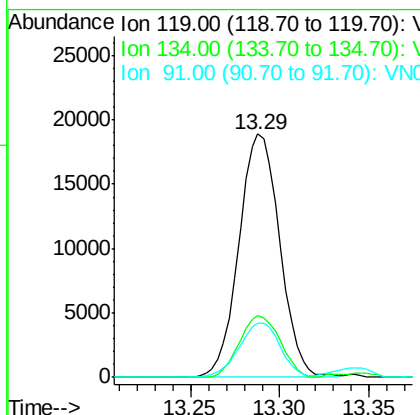
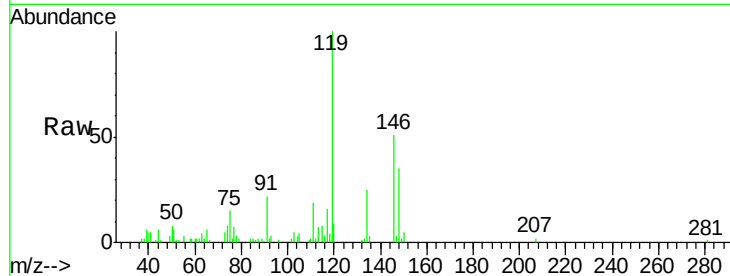
#86
p-Isopropyltoluene
Concen: 0.843 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. -0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.0	13.4	40.1
91	22.8	11.1	33.1

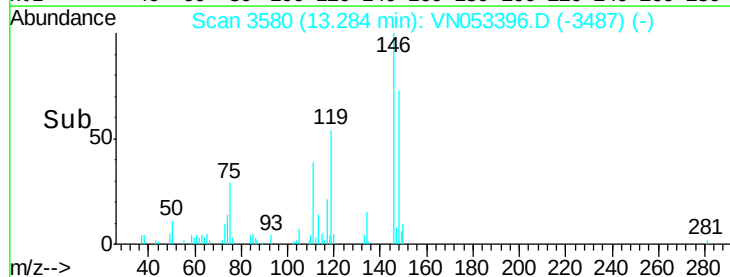
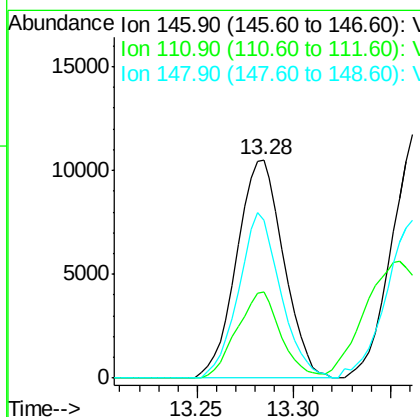
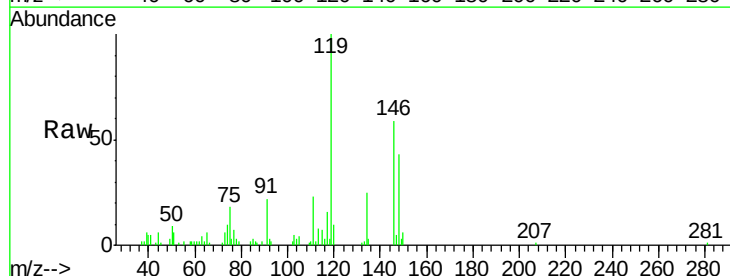
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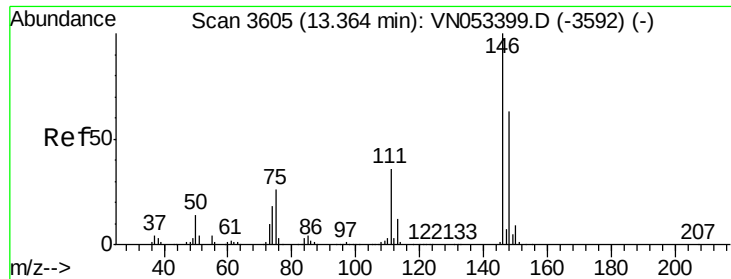
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#87
1,3-Dichlorobenzene
Concen: 0.915 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.9	56.5
148	67.9	32.0	96.2





#88

1,4-Dichlorobenzene

Concen: 1.006 ug/l m

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

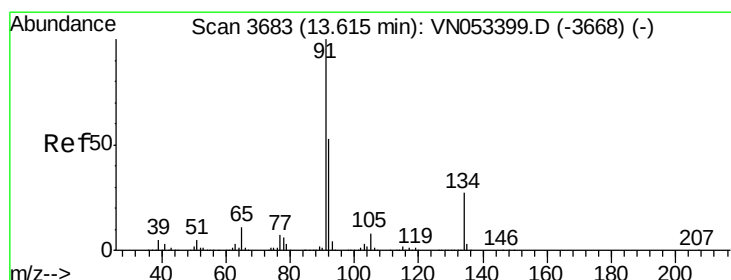
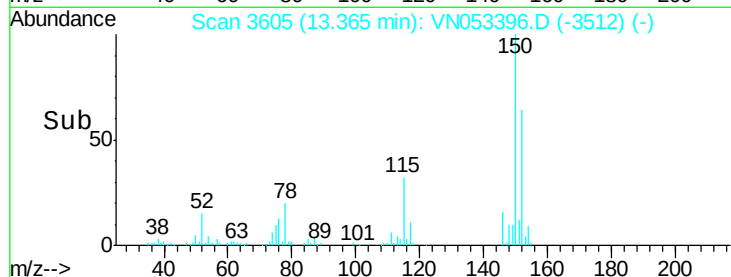
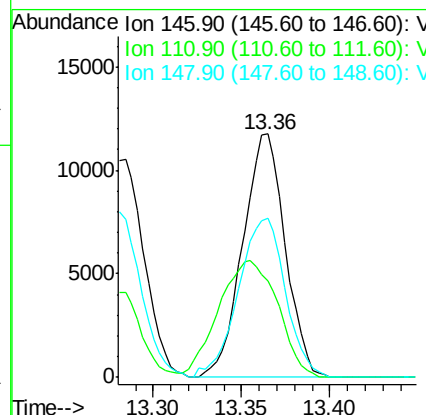
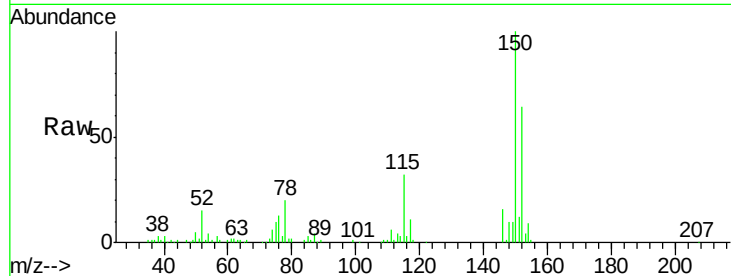
ClientSampled :

VSTDIC001

Tot Ion:	146	Resp:	19554
Ion Ratio	Lower	Upper	
146	100		
111	33.2	18.6	55.8
148	61.6	32.0	96.0

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#89

n-Butylbenzene

Concen: 0.867 ug/l

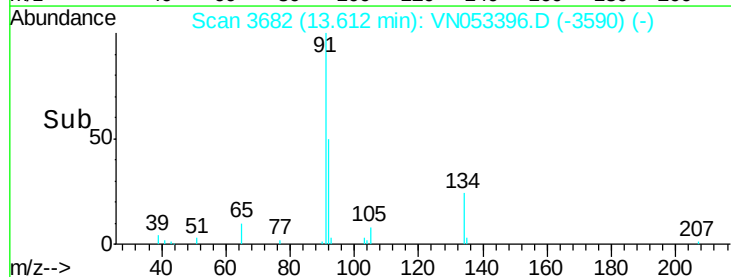
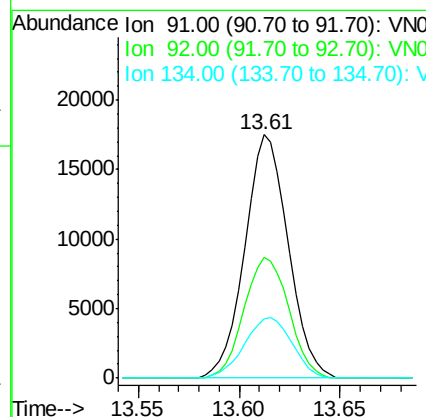
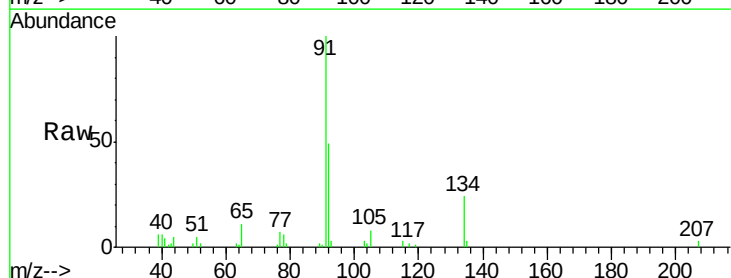
RT: 13.61 min Scan# 3682

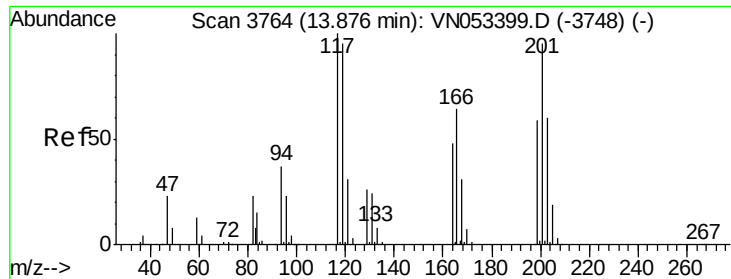
Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Tgt Ion:	91	Resp:	26434
Ion Ratio	Lower	Upper	
91	100		
92	50.9	26.3	78.8
134	27.2	13.5	40.5





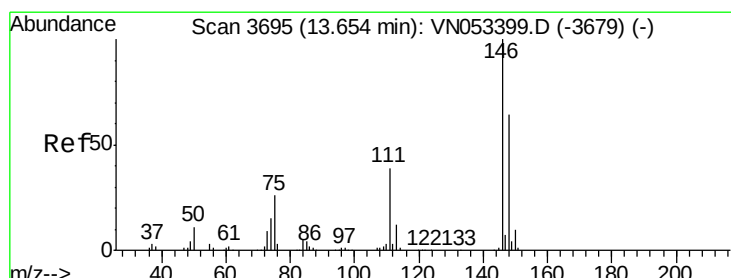
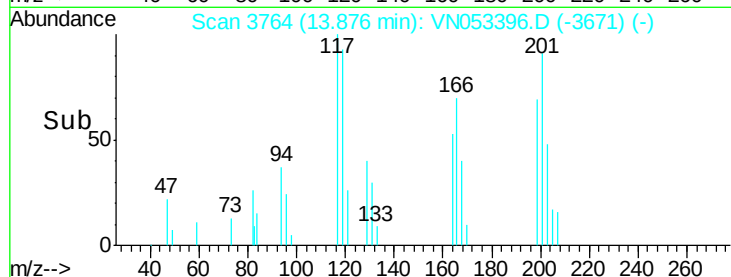
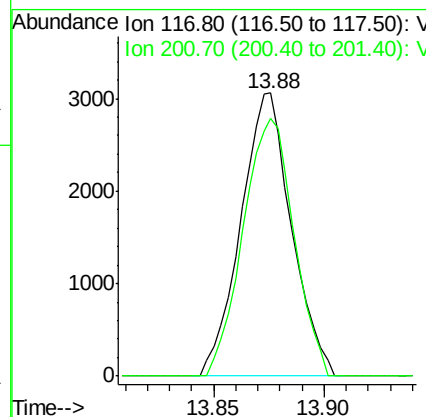
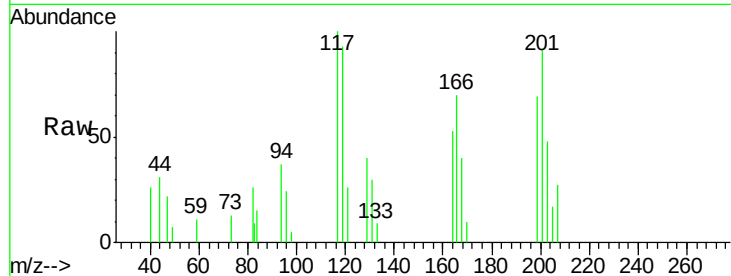
#90
Hexachloroethane
Concen: 0.867 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion:117 Resp: 4863
Ion Ratio Lower Upper
117 100
201 91.1 46.1 138.3

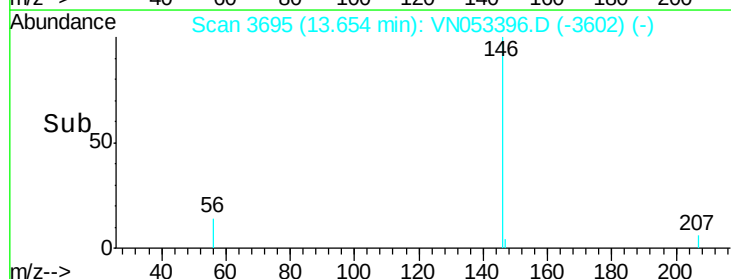
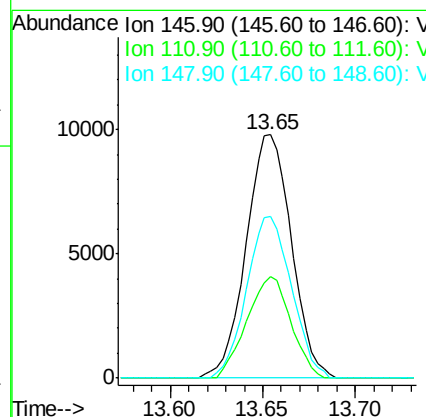
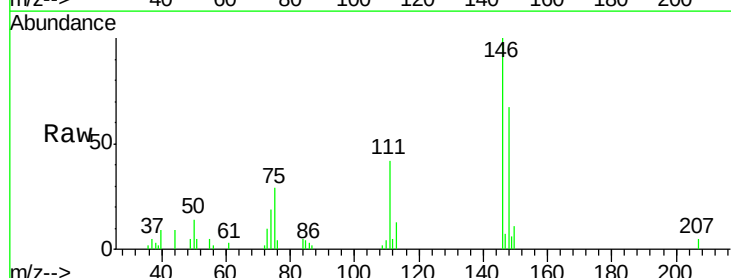
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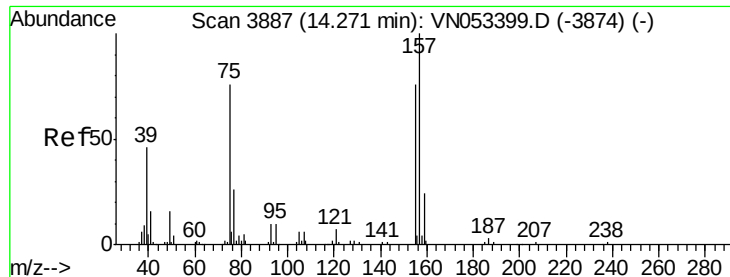
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#91
1,2-Dichlorobenzene
Concen: 0.935 ug/l
RT: 13.65 min Scan# 3695
Delta R.T. 0.00 min
Lab File: VN053396.D
Acq: 15 Jan 2019 9:16

Tgt Ion:146 Resp: 16658
Ion Ratio Lower Upper
146 100
111 40.4 19.4 58.2
148 65.7 32.2 96.6





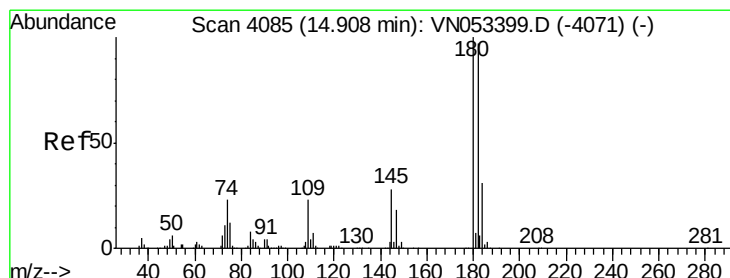
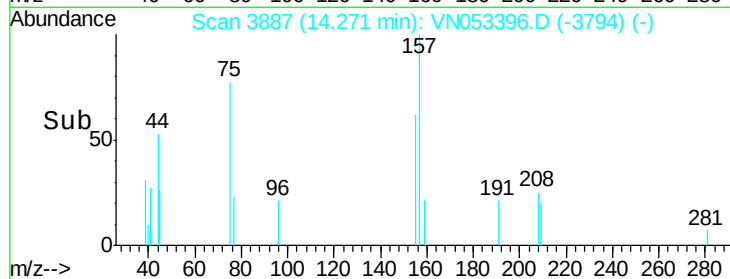
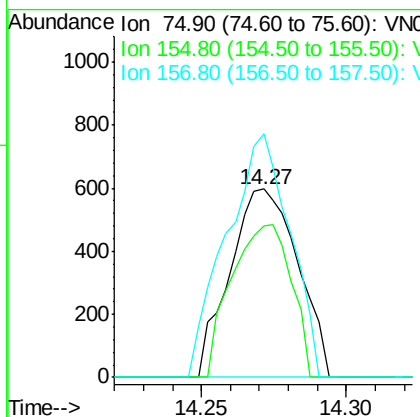
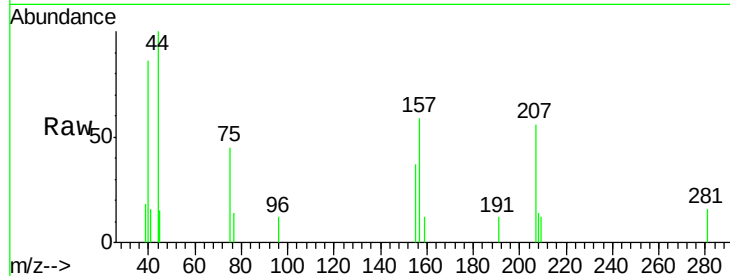
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.874 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
75	100		
155	71.1	48.1	144.3
157	120.7	61.5	184.4

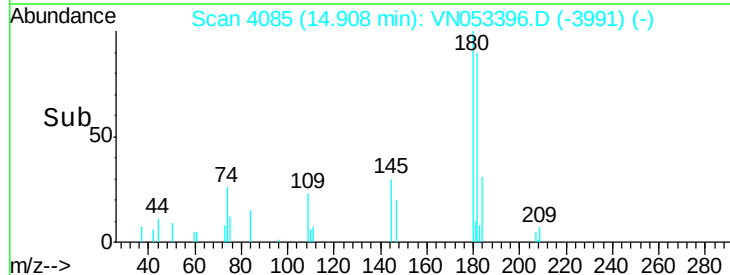
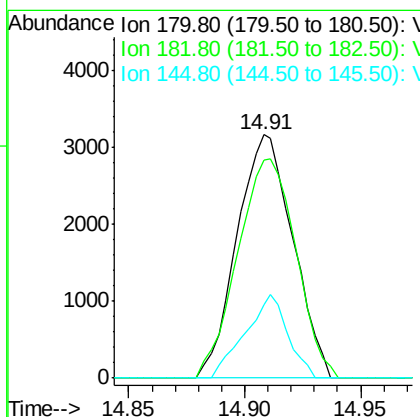
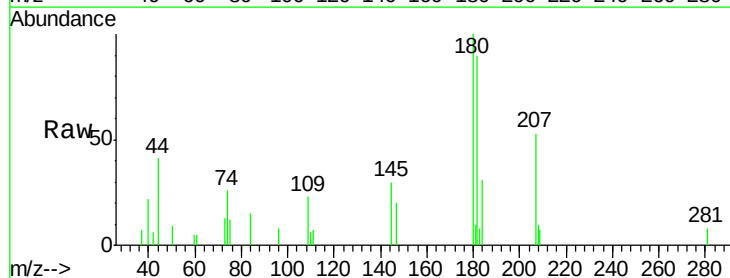
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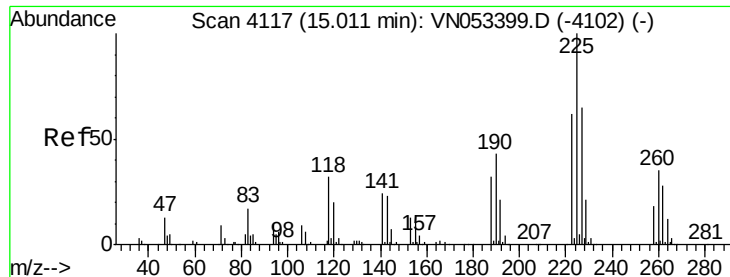
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#93
 1,2,4-Trichlorobenzene
 Concen: 3.402 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.8	143.4
145	26.3	14.4	43.0





#94

Hexachlorobutadiene

Concen: 0.965 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN053396.D

Acq: 15 Jan 2019 9:16

Instrument :

MSVOA_N

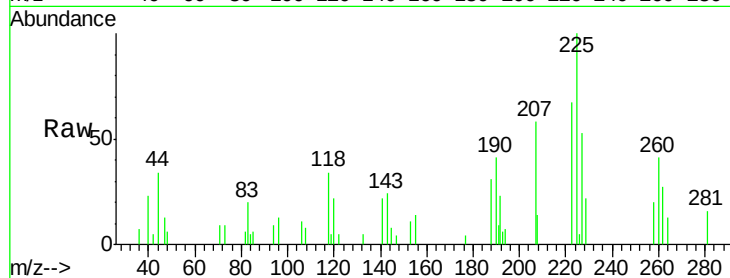
ClientSampleId :

VSTDIC001

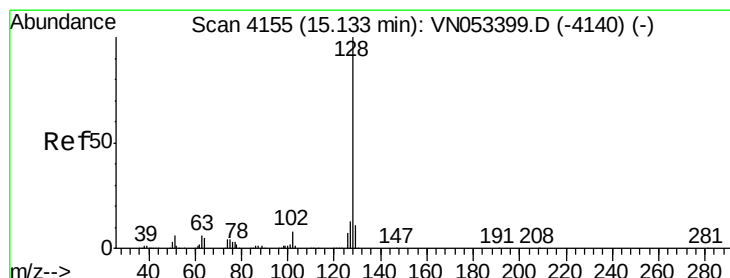
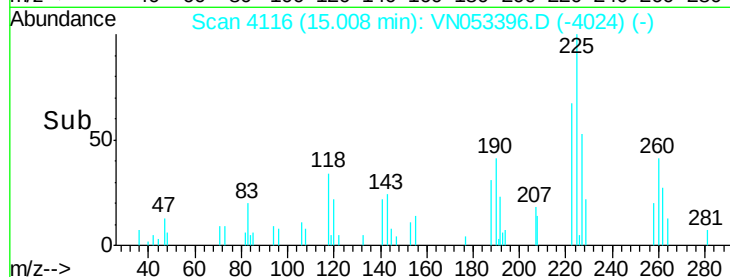
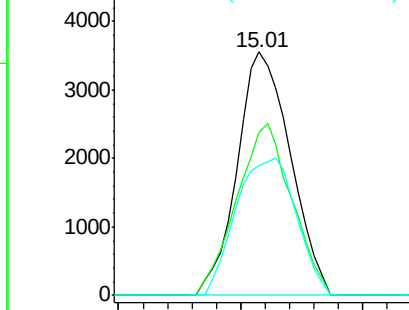
Tot Ion:	225	Resp:	5368
Ion Ratio	Lower	Upper	
225	100		
223	73.0	30.9	92.8
227	64.0	31.4	94.2

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Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.417 ug/l

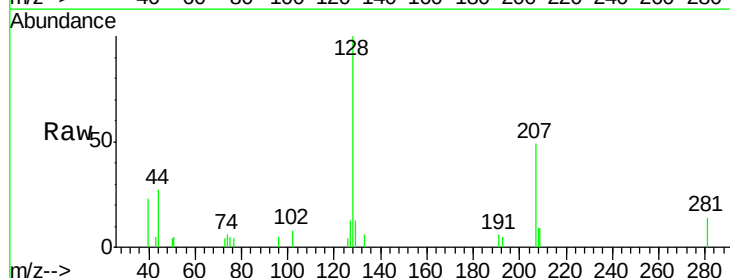
RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

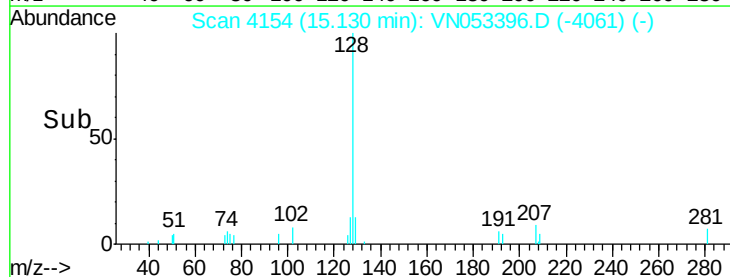
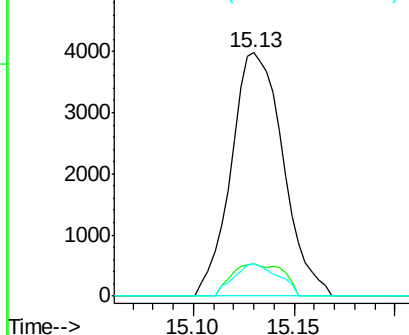
Lab File: VN053396.D

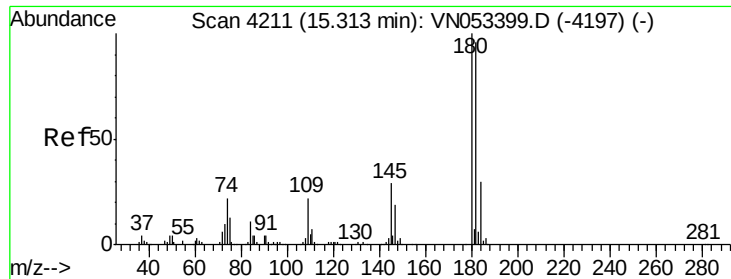
Acq: 15 Jan 2019 9:16

Tgt Ion:	128	Resp:	7167
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.4	15.6
129	11.5	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 4.470 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN053396.D
 Acq: 15 Jan 2019 9:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.4	145.0
145	25.6	14.9	44.5

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