

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\
 Data File : VN055588.D
 Acq On : 14 May 2019 12:22
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 1:31:44 PM

Quant Time: May 15 07:08:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051419W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 15 06:47:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	728759	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1262634	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1077511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	403444	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	214882	19.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.46%	
35) Dibromofluoromethane	7.59	113	169285	20.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.52%	
50) Toluene-d8	10.09	98	648380	20.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.86%	
62) 4-Bromofluorobenzene	12.40	95	204278	19.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	148501	19.958	ug/l	99
3) Chloromethane	2.06	50	229822	19.199	ug/l	100
4) Vinyl Chloride	2.19	62	227280	19.968	ug/l	98
5) Bromomethane	2.55	94	131689	20.928	ug/l	97
6) Chloroethane	2.70	64	137415	20.539	ug/l	100
7) Trichlorofluoromethane	3.01	101	251808	20.145	ug/l	98
8) Diethyl Ether	3.41	74	115221	20.527	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	156379	19.653	ug/l	98
10) Methyl Iodide	3.95	142	208102	19.457	ug/l	99
11) Tert butyl alcohol	4.81	59	132948	85.468	ug/l	97
12) 1,1-Dichloroethene	3.73	96	160378	20.097	ug/l	99
13) Acrolein	3.60	56	127167	113.516	ug/l	98
14) Allyl chloride	4.32	41	301498	18.685	ug/l	99
15) Acrylonitrile	4.99	53	453842	92.453	ug/l	99
16) Acetone	3.82	43	503432	100.336	ug/l	99
17) Carbon Disulfide	4.04	76	449940	20.537	ug/l	99
18) Methyl Acetate	4.33	43	193996	15.823	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	504879	19.260	ug/l	100
20) Methylene Chloride	4.55	84	195933	18.955	ug/l	97
21) trans-1,2-Dichloroethene	5.04	96	177112	20.439	ug/l	96
22) Diisopropyl ether	5.95	45	638808	19.510	ug/l	99
23) Vinyl Acetate	5.90	43	2394297	95.018	ug/l	100
24) 1,1-Dichloroethane	5.85	63	346280	19.434	ug/l	100
25) 2-Butanone	6.84	43	644962	94.391	ug/l	99
26) 2,2-Dichloropropane	6.82	77	223891	20.183	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	202527	20.331	ug/l	100
28) Bromochloromethane	7.19	49	164756	18.075	ug/l	98
29) Tetrahydrofuran	7.21	42	412399	91.216	ug/l	100
30) Chloroform	7.37	83	325762	19.802	ug/l	98
31) Cyclohexane	7.65	56	338064	19.164	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	254073	20.211	ug/l	99
36) 1,1-Dichloropropene	7.79	75	247900	20.035	ug/l	100
37) Ethyl Acetate	6.93	43	244192	18.452	ug/l	100
38) Carbon Tetrachloride	7.77	117	203696	19.440	ug/l	99

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	289576	19.208	ug/l	99
40) Benzene	8.04	78	777314	20.265	ug/l	99
41) Methacrylonitrile	7.17	41	120218	19.623	ug/l	98
42) 1,2-Dichloroethane	8.12	62	253220	18.858	ug/l	99
43) Isopropyl Acetate	8.17	43	369992	18.460	ug/l	99
44) Trichloroethene	8.83	130	187718	20.425	ug/l	98
45) 1,2-Dichloropropane	9.12	63	215018	19.634	ug/l	99
46) Dibromomethane	9.21	93	126430	19.933	ug/l	98
47) Bromodichloromethane	9.40	83	237934	19.527	ug/l	97
48) Methyl methacrylate	9.20	41	181732	18.762	ug/l	99
49) 1,4-Dioxane	9.20	88	66436	354.234	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	1169321	89.133	ug/l	99
52) Toluene	10.15	92	441939	20.129	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	228306	19.601	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	277982	19.907	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	173330	19.527	ug/l	97
56) Ethyl methacrylate	10.43	69	248328	19.003	ug/l	98
57) 1,3-Dichloropropane	10.71	76	307912	19.607	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.69	63	330047	91.639	ug/l	99
59) 2-Hexanone	10.75	43	820137	89.277	ug/l	99
60) Dibromochloromethane	10.90	129	162398	20.109	ug/l	100
61) 1,2-Dibromoethane	11.00	107	170524	20.052	ug/l	97
64) Tetrachloroethene	10.63	164	180578	20.497	ug/l	98
65) Chlorobenzene	11.43	112	450863	20.379	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	155312	20.326	ug/l	99
67) Ethyl Benzene	11.51	91	812234	19.649	ug/l	99
68) m/p-Xylenes	11.62	106	595583	40.036	ug/l	100
69) o-Xylene	11.95	106	291914	19.993	ug/l	99
70) Styrene	11.96	104	473783	20.304	ug/l	100
71) Bromoform	12.12	173	101627	19.859	ug/l #	98
73) Isopropylbenzene	12.25	105	775844	19.678	ug/l	99
74) N-amyl acetate	12.07	43	270080	18.064	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	238450	18.657	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	194007m	17.967	ug/l	
77) Bromobenzene	12.53	156	176545	19.864	ug/l	98
78) n-propylbenzene	12.59	91	846642	19.675	ug/l	100
79) 2-Chlorotoluene	12.67	91	521505	19.475	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	629071	19.634	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	57313	19.672	ug/l	97
82) 4-Chlorotoluene	12.77	91	499788	19.738	ug/l	98
83) tert-Butylbenzene	12.99	119	538130	19.617	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	581034	19.780	ug/l	99
85) sec-Butylbenzene	13.17	105	698533	19.186	ug/l	100
86) p-Isopropyltoluene	13.29	119	577325	19.487	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	276680	20.221	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	269283	19.918	ug/l	99
89) n-Butylbenzene	13.61	91	416484	18.318	ug/l	99
90) Hexachloroethane	13.87	117	94263	19.479	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	275959	20.154	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	31075	17.141	ug/l	96

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Quant Title : SW846 8260
QLast Update : Wed May 15 06:47:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	85603	18.485	ug/l	99
94) Hexachlorobutadiene	15.01	225	86507	17.639	ug/l	99
95) Naphthalene	15.13	128	234814	17.353	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	96771	17.824	ug/l	98

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

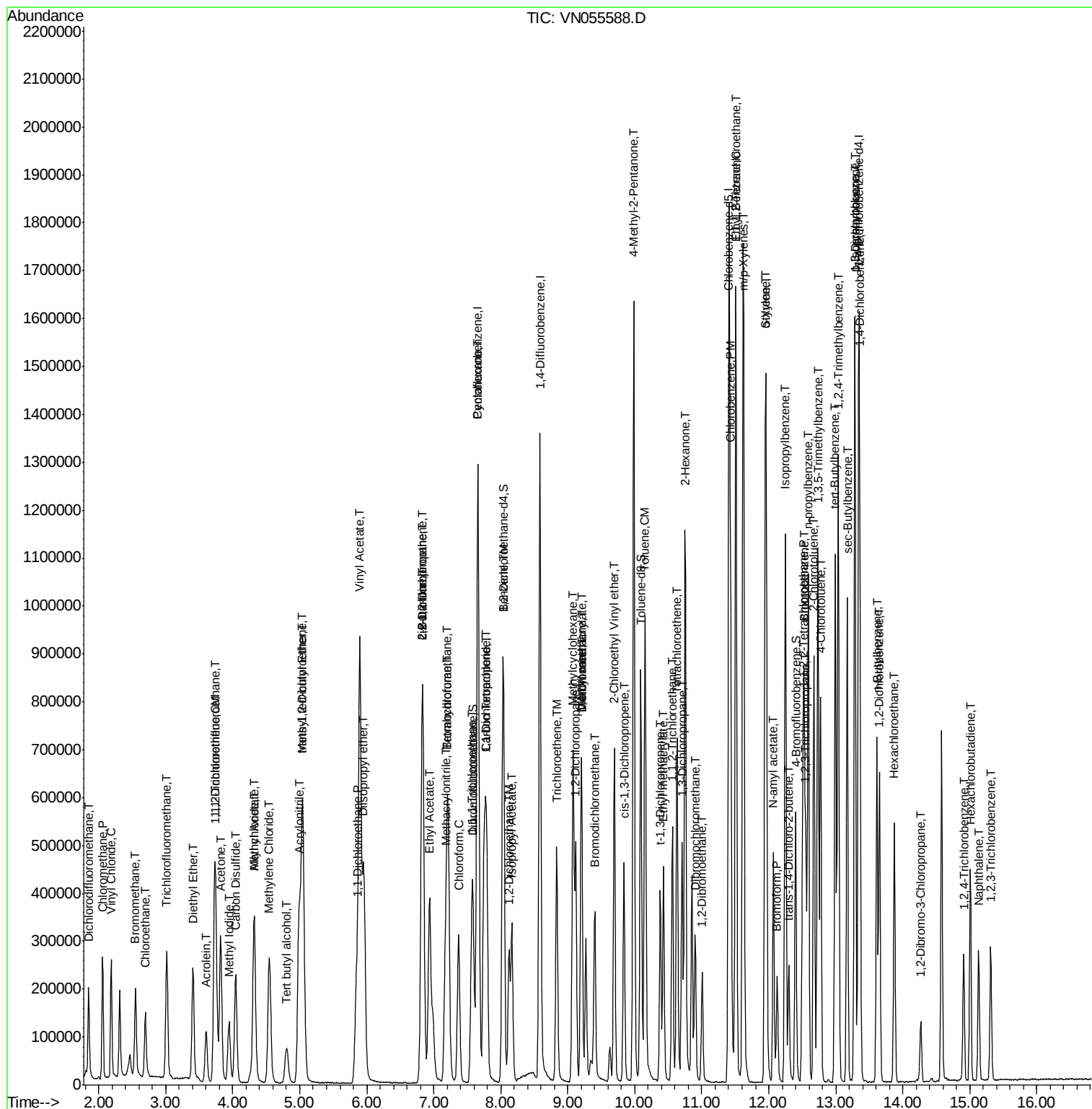
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051419\
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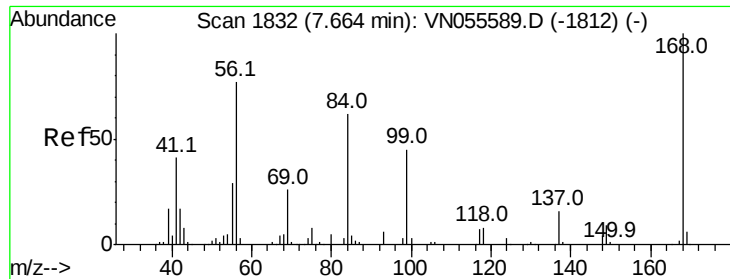
Instrument :
 MSVOA_N
 Client Sampled :
 VSTDIC020

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 728759

Ion Ratio Lower Upper

168 100

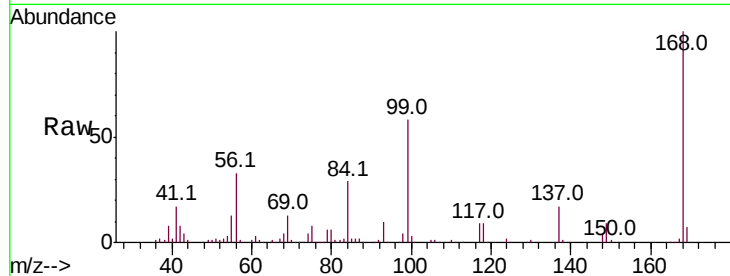
99 57.3 44.6 66.8

Manual Integrations

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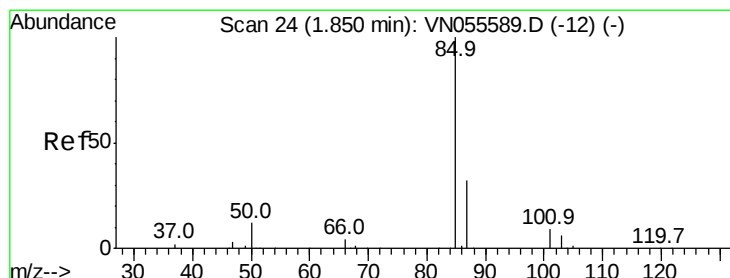
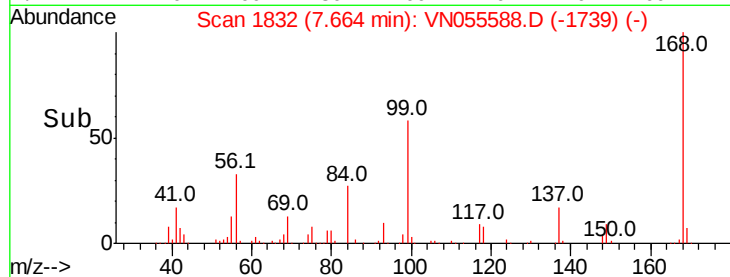
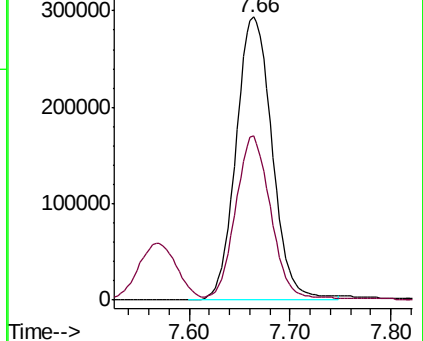
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 19.958 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN055588.D

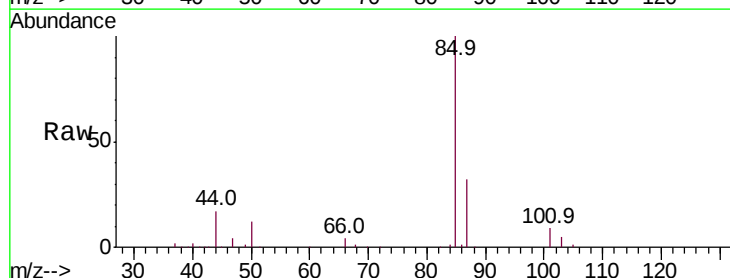
Acq: 14 May 2019 12:22

Tgt Ion: 85 Resp: 148501

Ion Ratio Lower Upper

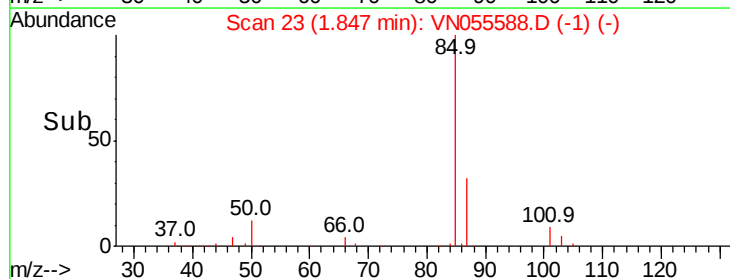
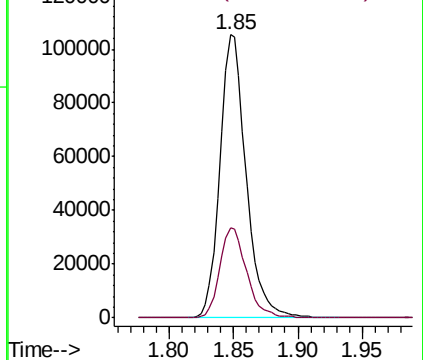
85 100

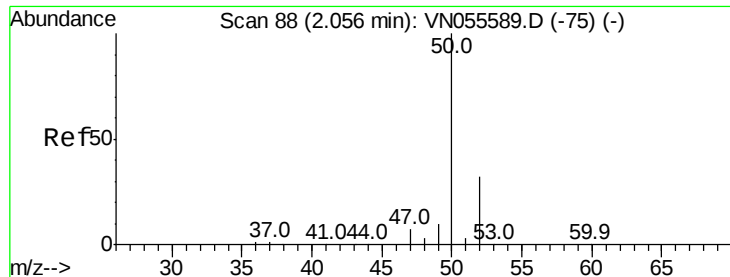
87 31.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 19.199 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 229822

Ion Ratio Lower Upper

50 100

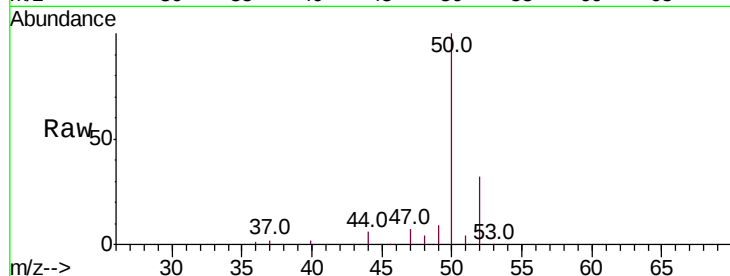
52 31.7 25.5 38.3

Manual Integrations

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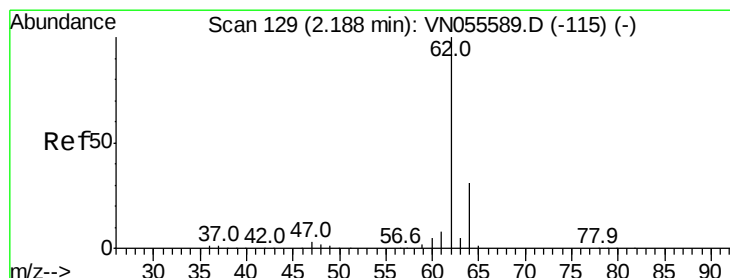
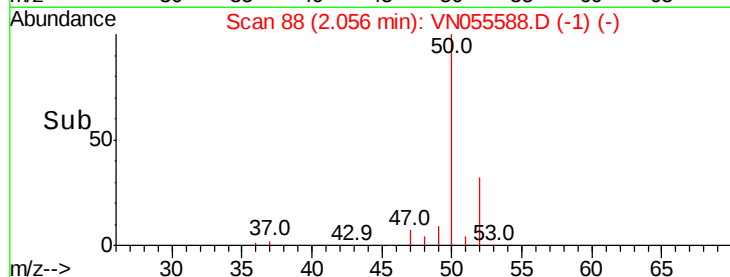
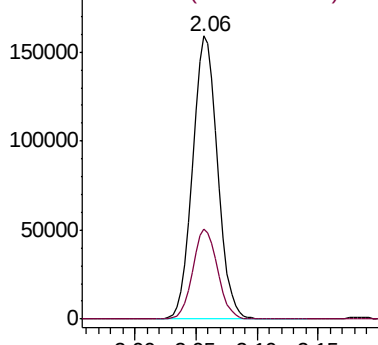
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 19.968 ug/l

RT: 2.19 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN055588.D

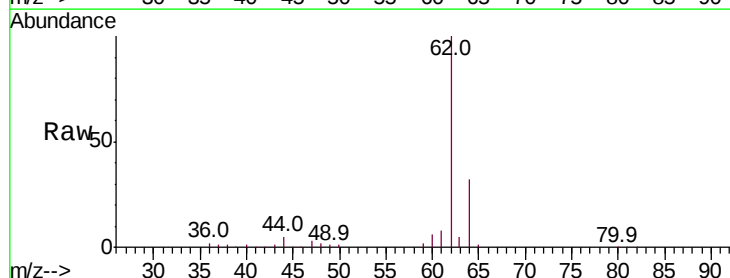
Acq: 14 May 2019 12:22

Tgt Ion: 62 Resp: 227280

Ion Ratio Lower Upper

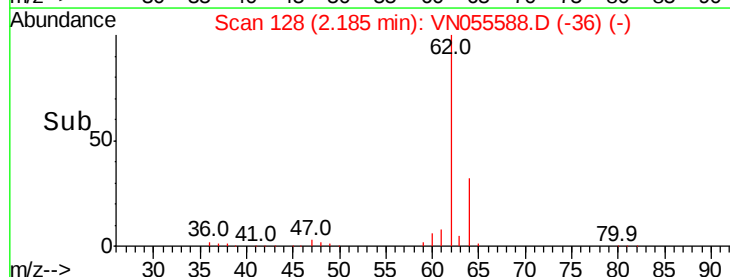
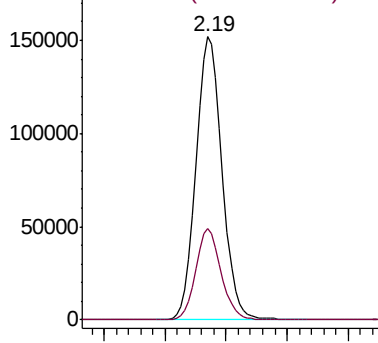
62 100

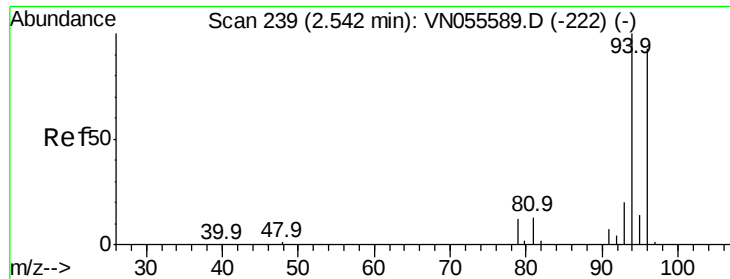
64 32.3 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 20.928 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

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Tot Ion: 94 Resp: 131689

Ion Ratio Lower Upper

94 100

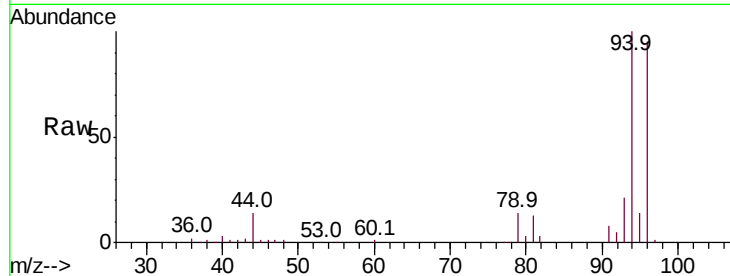
96 95.2 74.0 111.0

Manual Integrations

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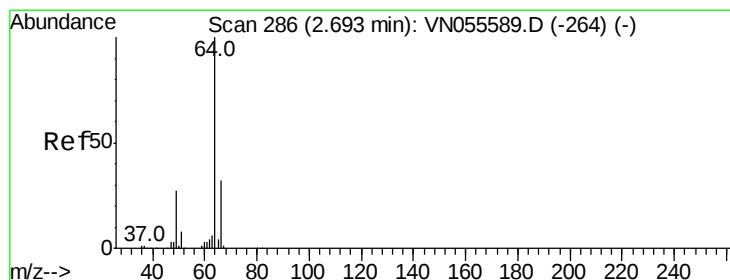
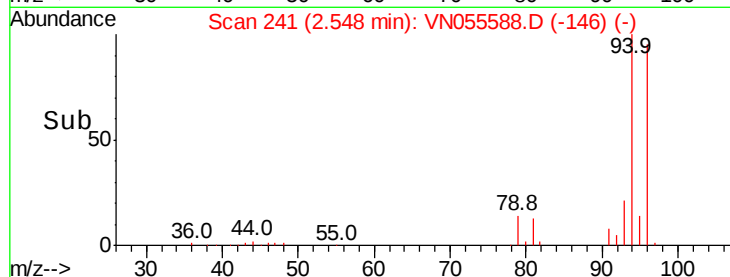
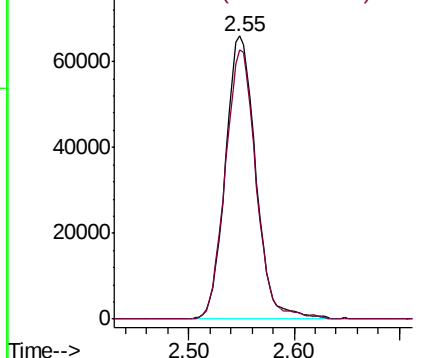
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.539 ug/l

RT: 2.70 min Scan# 287

Delta R.T. 0.00 min

Lab File: VN055588.D

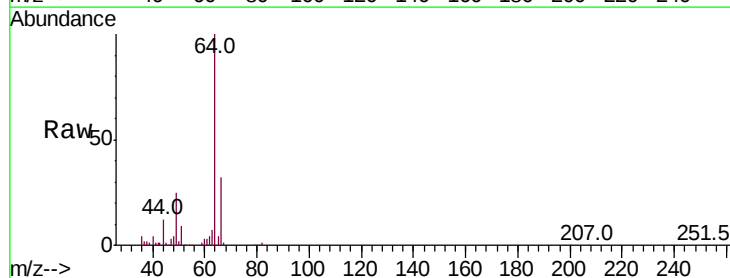
Acq: 14 May 2019 12:22

Tgt Ion: 64 Resp: 137415

Ion Ratio Lower Upper

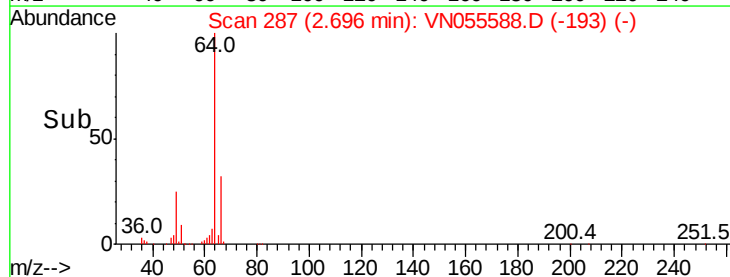
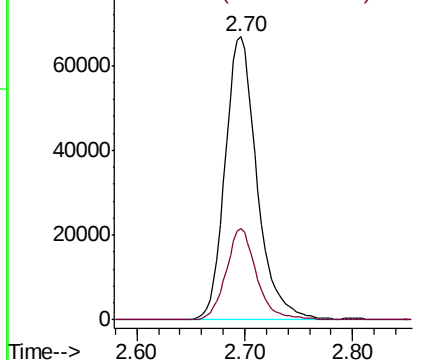
64 100

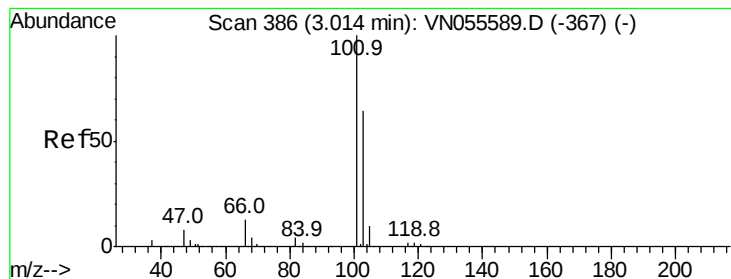
66 32.1 25.8 38.6



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

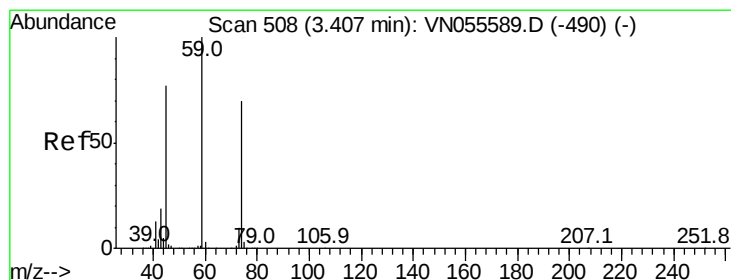
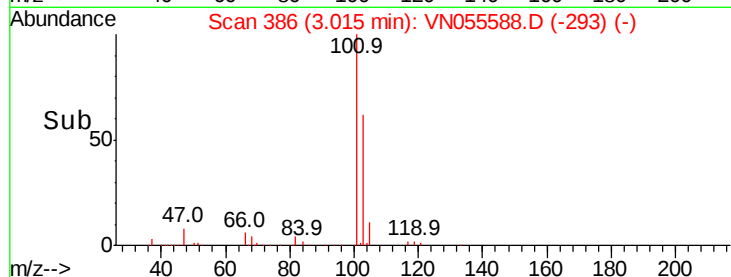
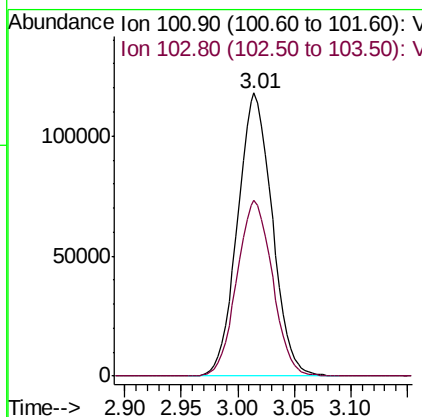
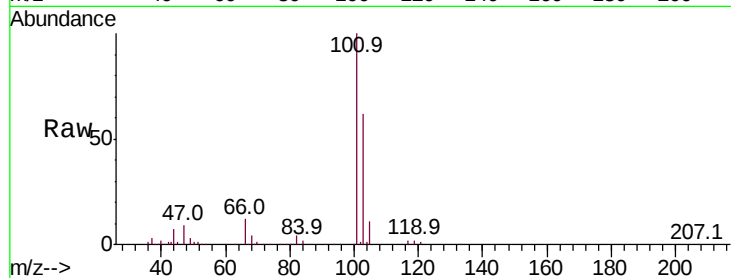
Trichlorofluoromethane
Concen: 20.145 ug/l
RT: 3.01 min Scan# 386
Delta R.T. 0.00 min
Lab File: VN055588.D
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VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.3	51.0	76.6

Manual Integrations
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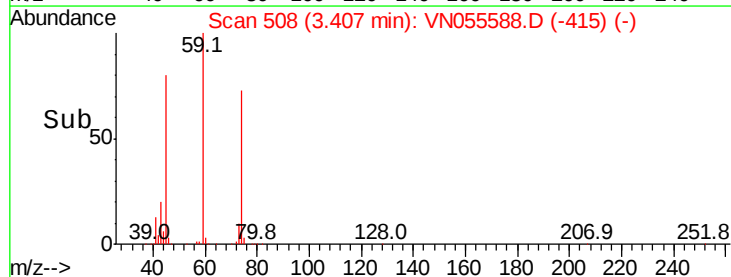
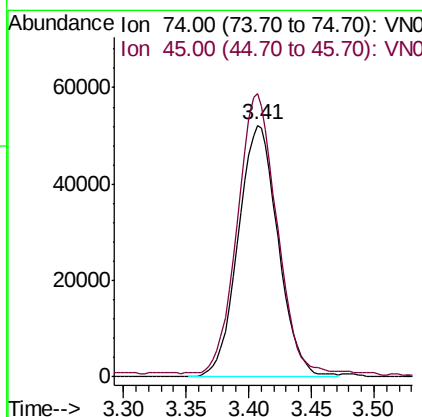
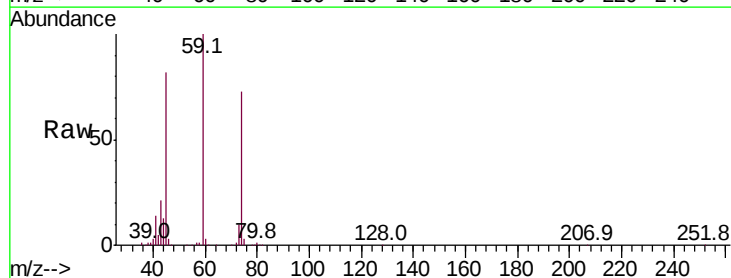
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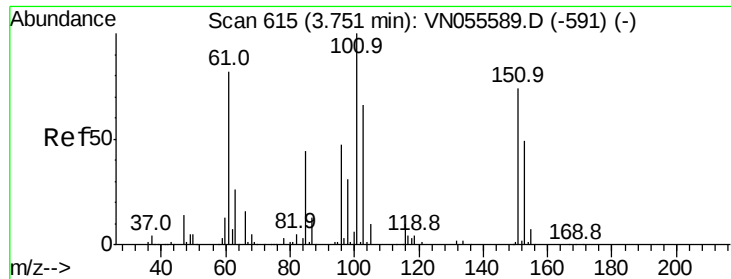


#8

Diethyl Ether
Concen: 20.527 ug/l
RT: 3.41 min Scan# 508
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
74	100		
45	108.7	54.9	164.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.653 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

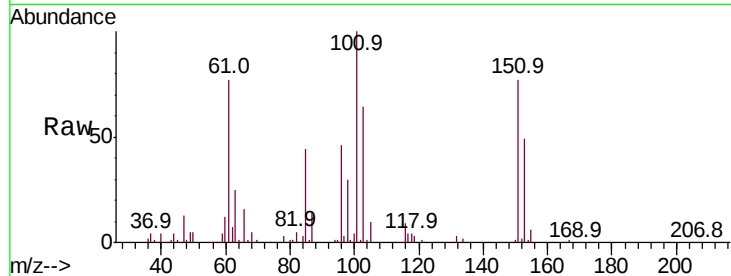
ClientSampleId :

VSTDIC020

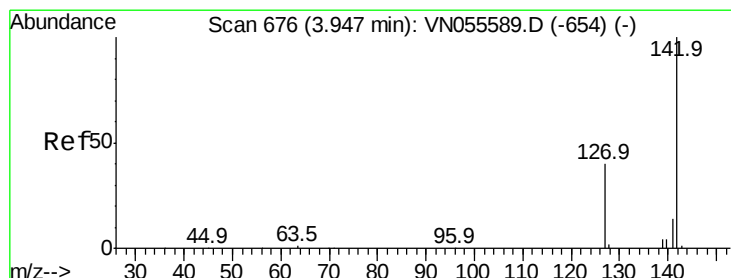
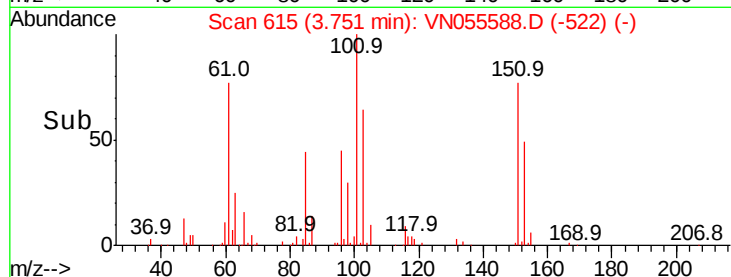
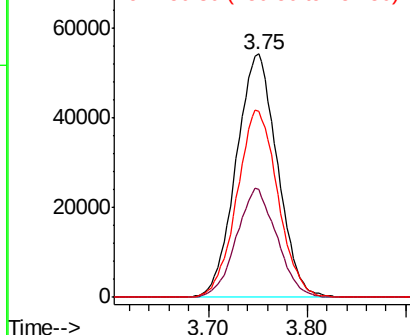
Tot Ion:	101	Resp:	156379
Ion Ratio	Lower	Upper	
101	100		
85	43.8	34.2	51.2
151	76.7	60.2	90.2

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



#10

Methyl Iodide

Concen: 19.457 ug/l

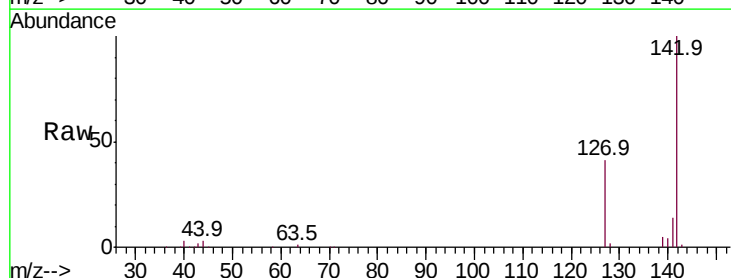
RT: 3.95 min Scan# 676

Delta R.T. 0.00 min

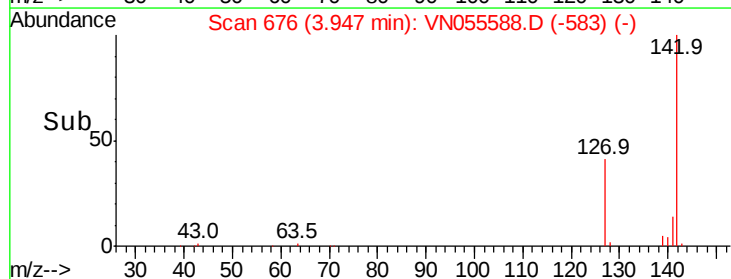
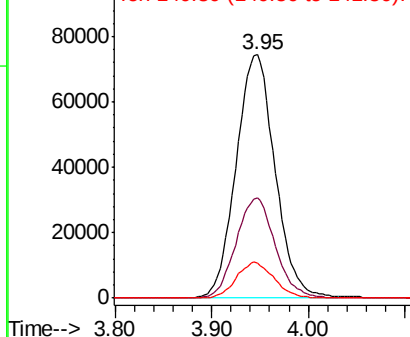
Lab File: VN055588.D

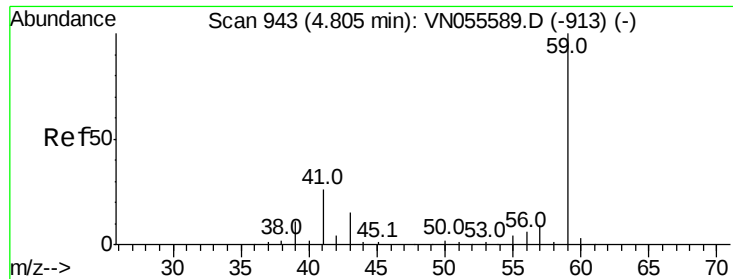
Acq: 14 May 2019 12:22

Tgt Ion:	142	Resp:	208102
Ion Ratio	Lower	Upper	
142	100		
127	41.2	32.5	48.7
141	14.2	11.2	16.8



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





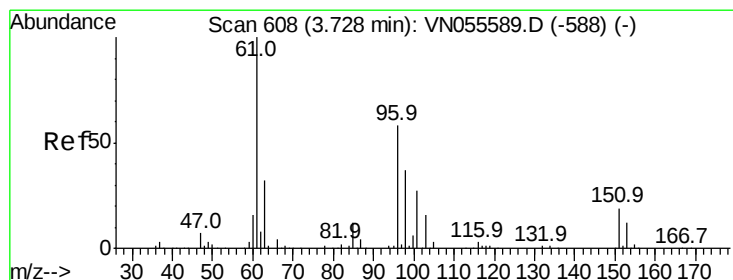
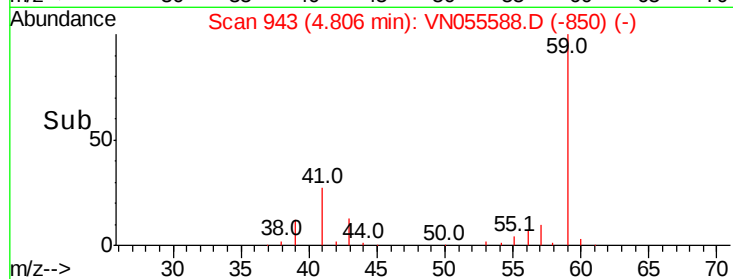
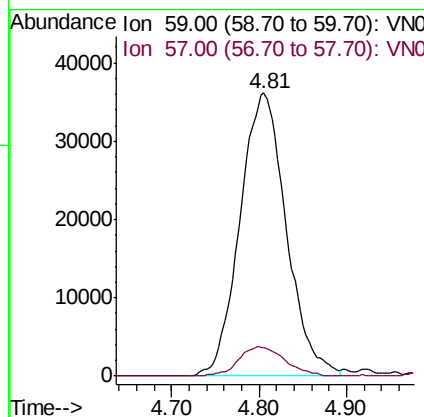
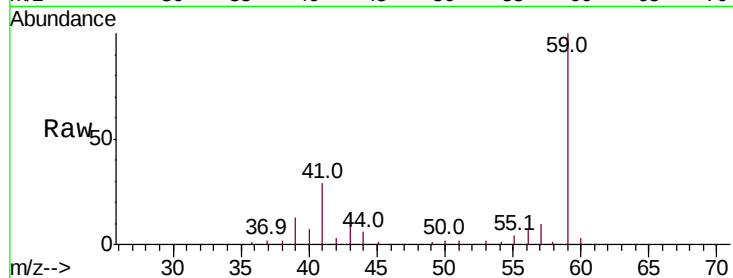
#11
Tert butyl alcohol
Concen: 85.468 ug/l
RT: 4.81 min Scan# 943
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.5	7.6	11.4

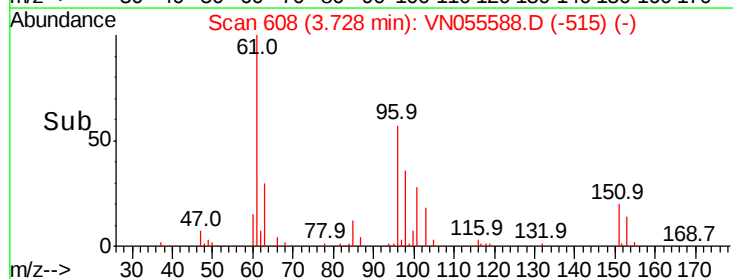
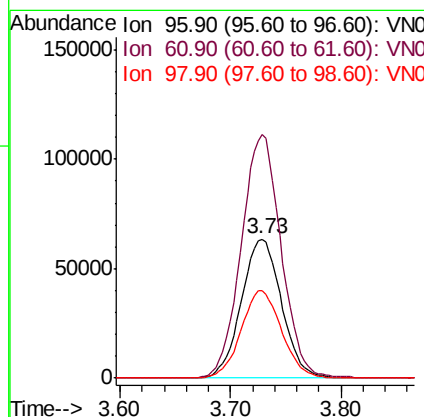
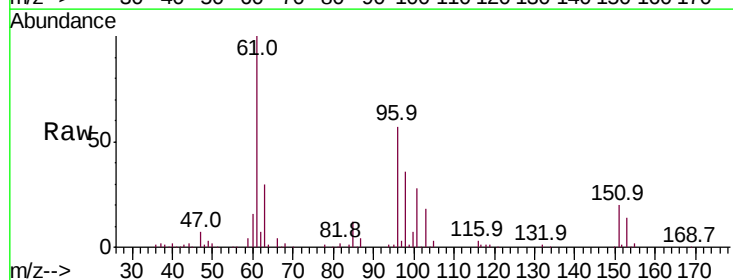
Manual Integrations
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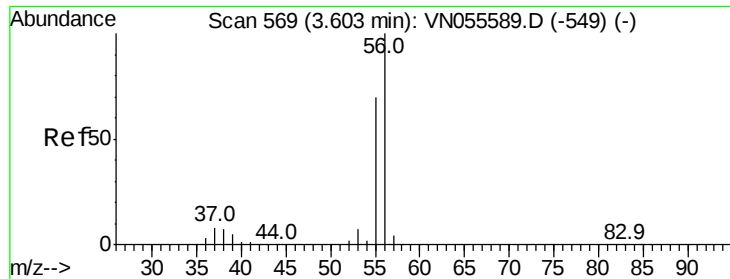
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#12
1,1-Dichloroethene
Concen: 20.097 ug/l
RT: 3.73 min Scan# 608
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	174.6	137.5	206.3
98	63.0	50.3	75.5





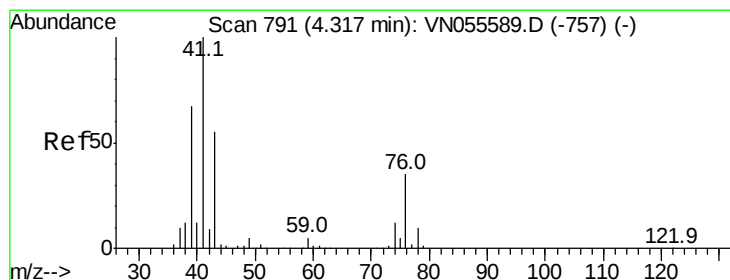
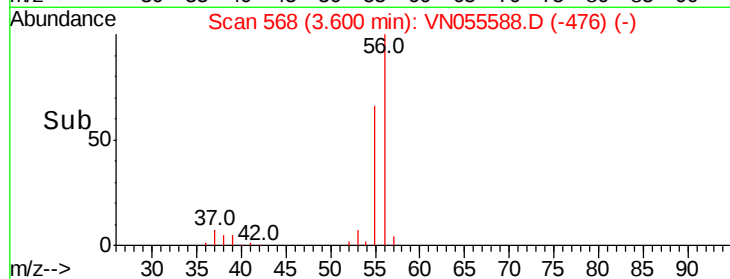
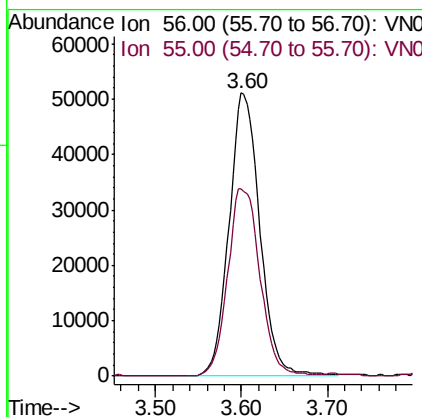
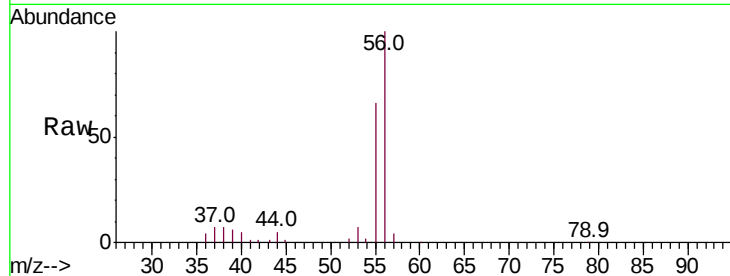
#13
Acrolein
Concen: 113.516 ug/l
RT: 3.60 min Scan# 568
Delta R.T. -0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
55	69.8	57.1	85.7

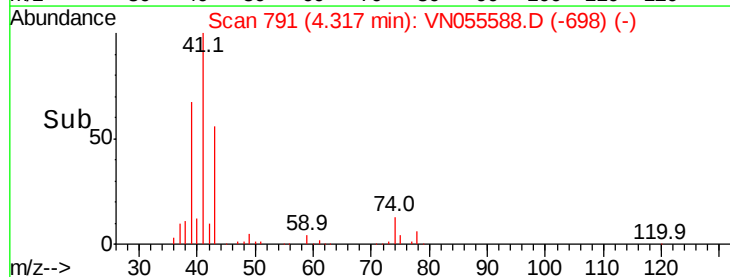
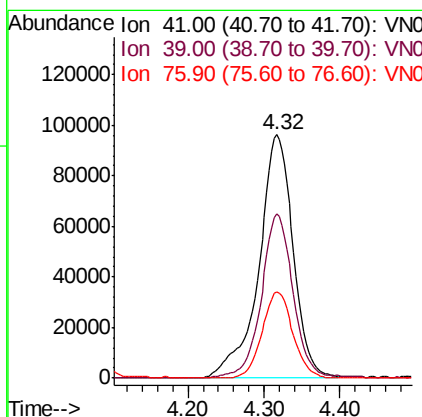
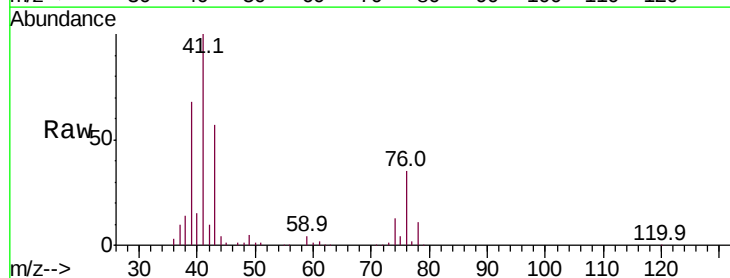
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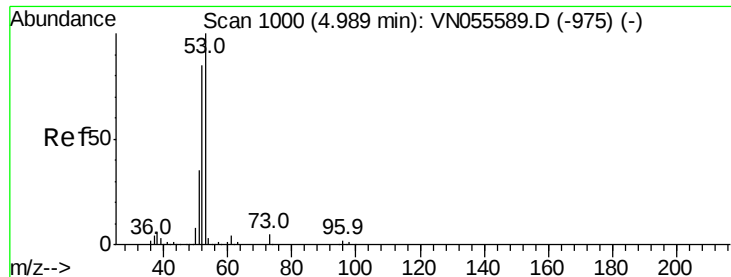
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#14
Allyl chloride
Concen: 18.685 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
41	100		
39	62.1	49.3	73.9
76	31.1	24.7	37.1





#15

Acrylonitrile

Concen: 92.453 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

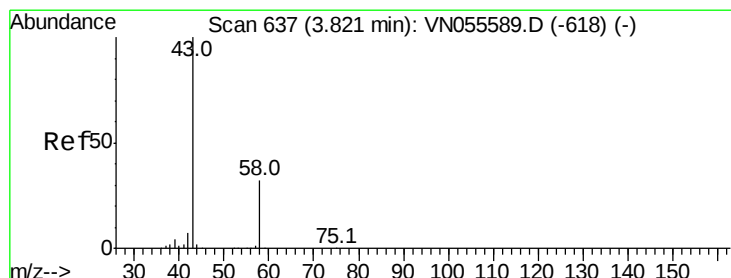
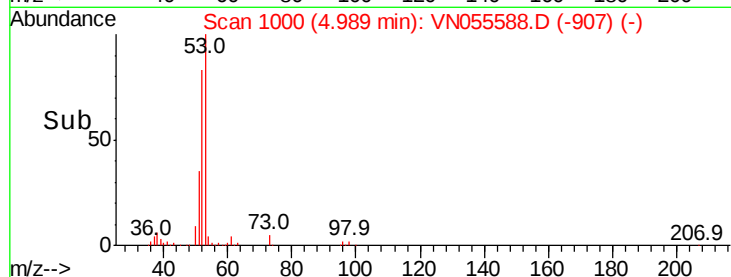
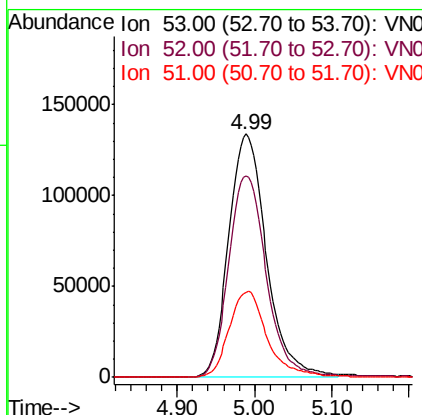
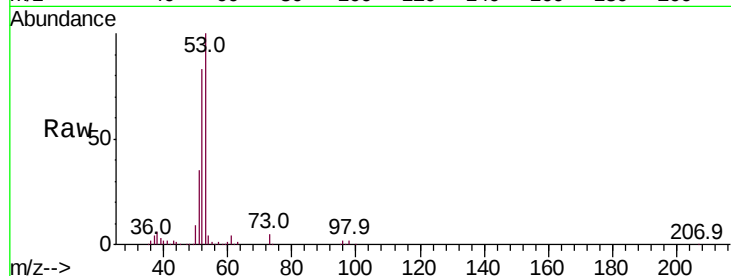
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	453842
Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.6	98.4
51	35.7	28.3	42.5

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#16

Acetone

Concen: 100.336 ug/l

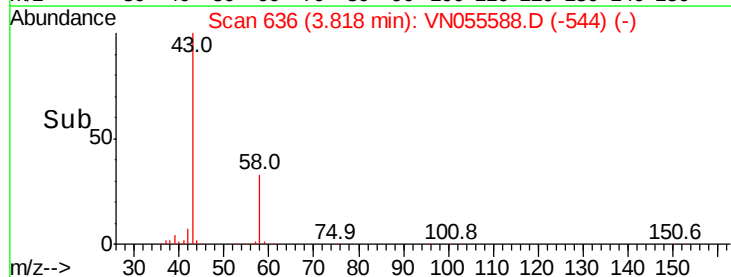
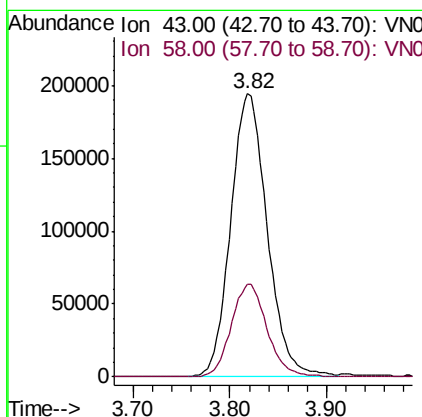
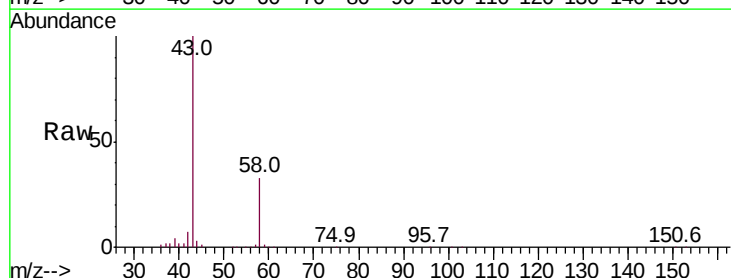
RT: 3.82 min Scan# 636

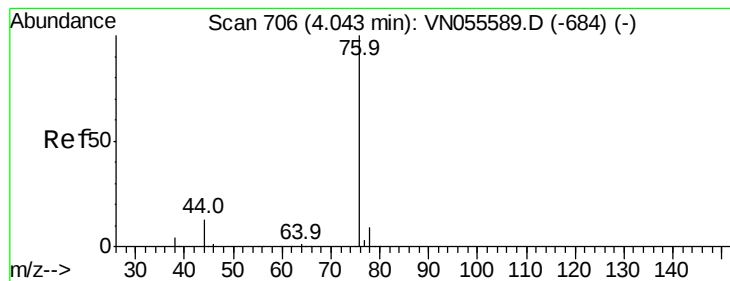
Delta R.T. -0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Tgt Ion:	43	Resp:	503432
Ion	Ratio	Lower	Upper
43	100		
58	32.6	25.7	38.5





#17

Carbon Disulfide

Concen: 20.537 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 449940

Ion Ratio Lower Upper

76 100

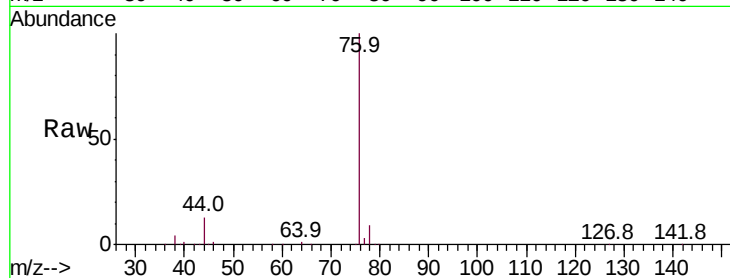
78 8.8 7.4 11.0

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN055588.D (-684) (-)

Ion 77.90 (77.60 to 78.60): VN055588.D (-684) (-)

4.04

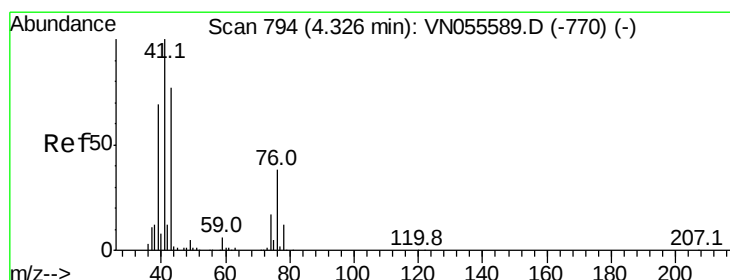
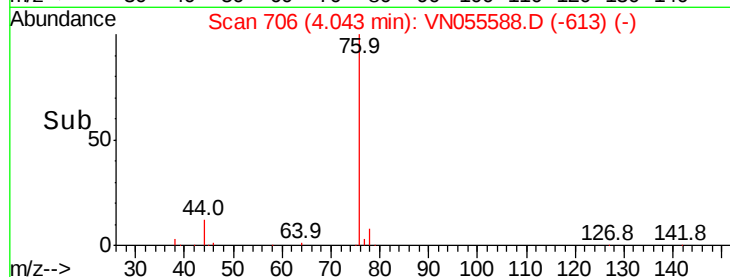
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 15.823 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055588.D

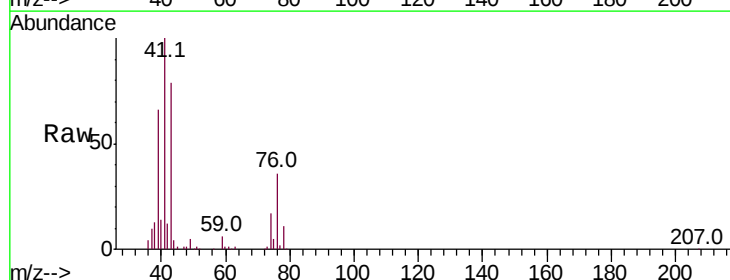
Acq: 14 May 2019 12:22

Tgt Ion: 43 Resp: 193996

Ion Ratio Lower Upper

43 100

74 20.9 17.4 26.2



Abundance Ion 43.00 (42.70 to 43.70): VN055588.D (-770) (-)

Ion 74.00 (73.70 to 74.70): VN055588.D (-770) (-)

4.33

80000

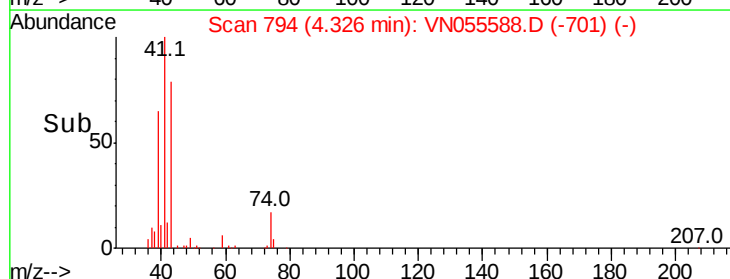
60000

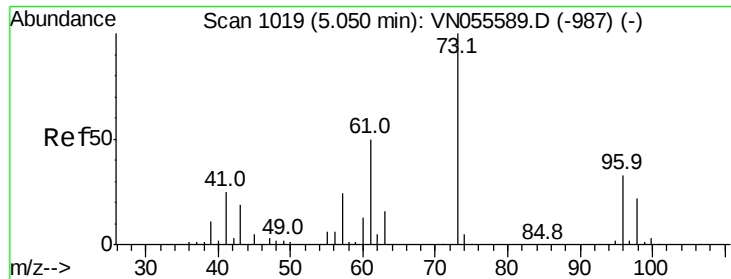
40000

20000

0

Time-->





#19

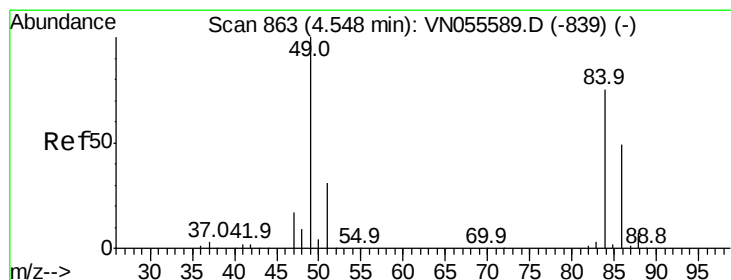
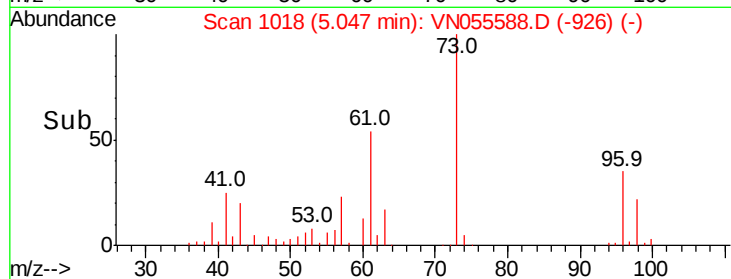
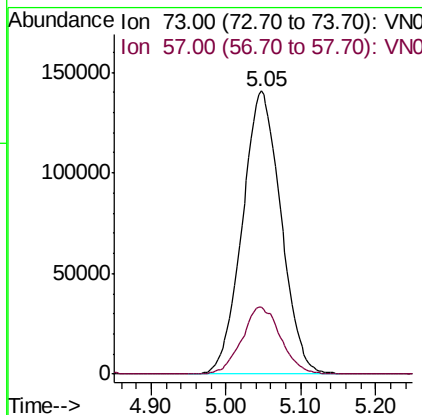
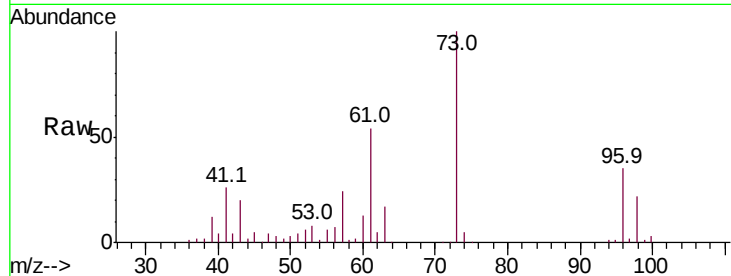
Methyl tert-butyl Ether
 Concen: 19.260 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.5	18.9	28.3

Manual Integrations
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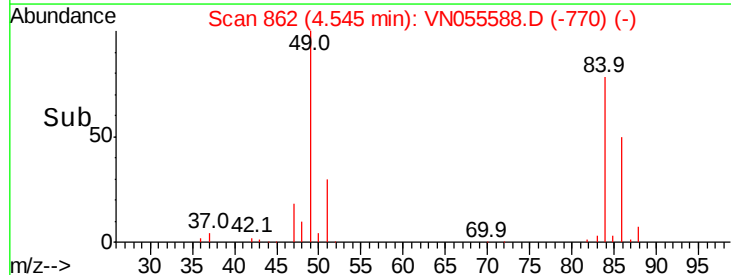
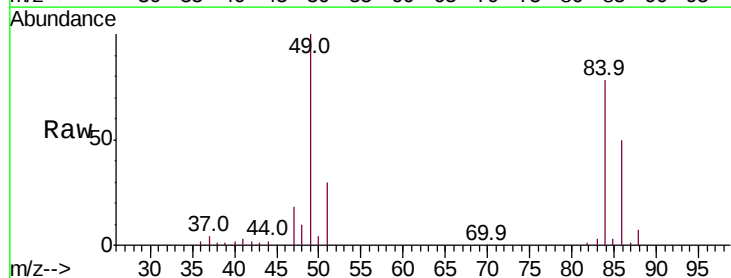
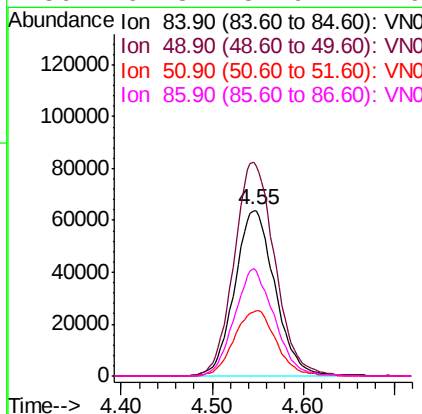
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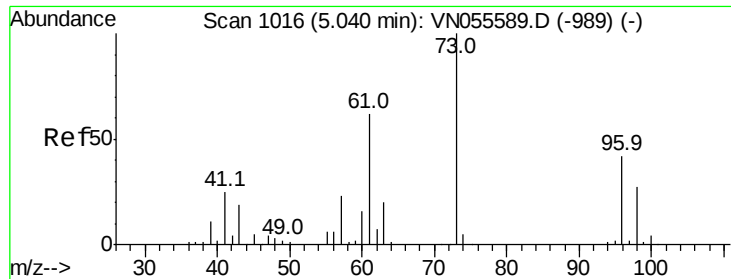


#20

Methylene Chloride
 Concen: 18.955 ug/l
 RT: 4.55 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
84	100		
49	128.6	106.2	159.2
51	38.8	32.7	49.1
86	64.8	51.9	77.9





#21

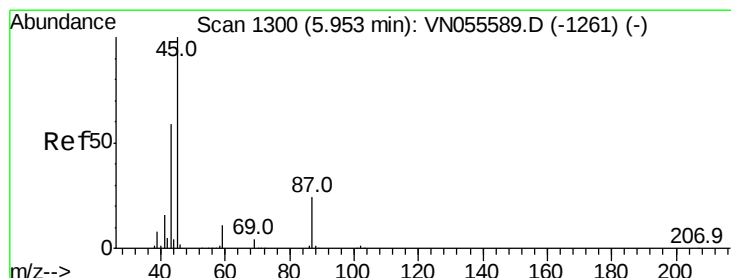
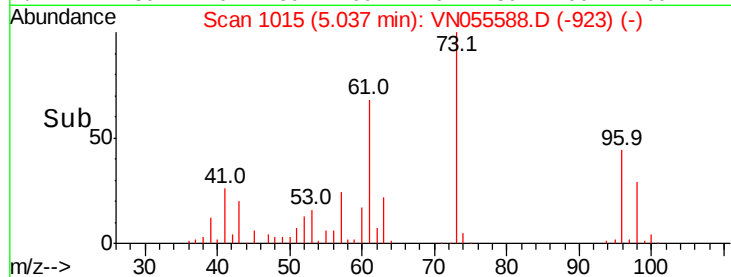
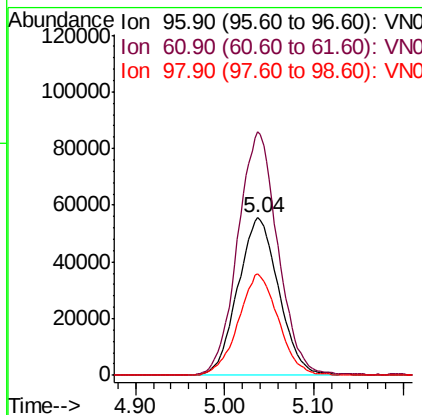
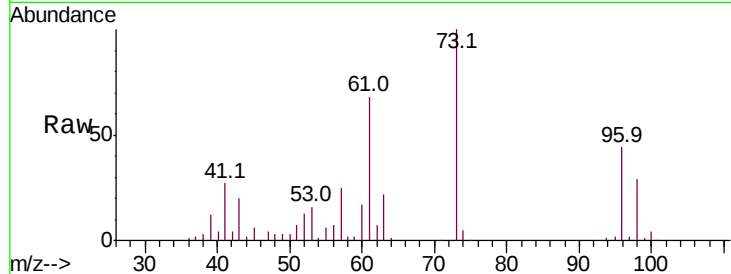
trans-1,2-Dichloroethene
Concen: 20.439 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.4	117.8	176.6
98	64.7	51.4	77.2

Manual Integrations
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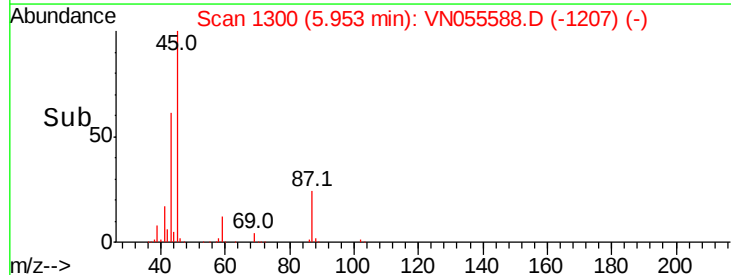
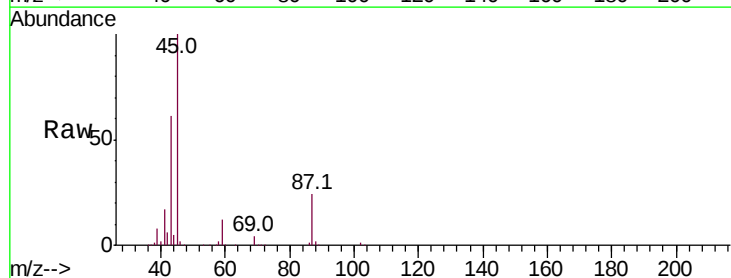
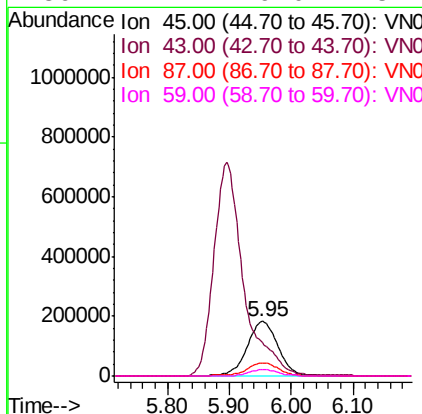
MMDadoda
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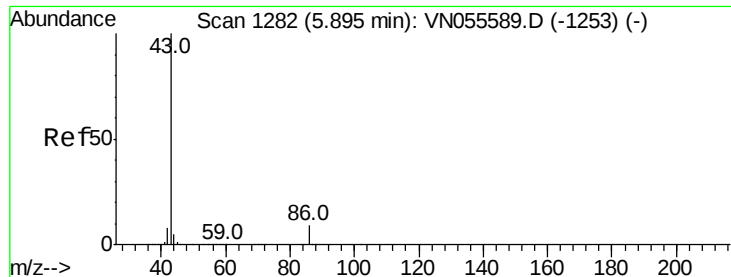


#22

Diisopropyl ether
Concen: 19.510 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.9	47.1	70.7
87	24.1	19.5	29.3
59	11.4	9.0	13.4





#23

Vinyl Acetate

Concen: 95.018 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Tot Ion: 43 Resp: 2394297

Ion Ratio Lower Upper

43 100

86 9.3 7.4 11.0

Instrument :

MSVOA_N

ClientSampleId :

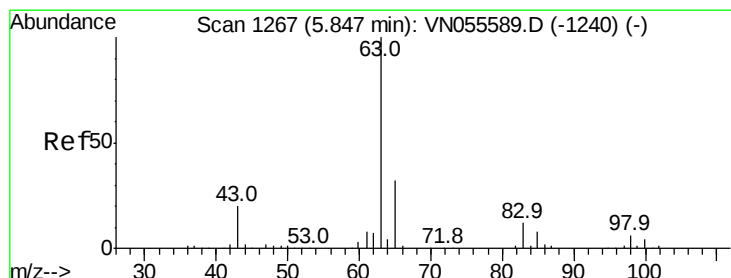
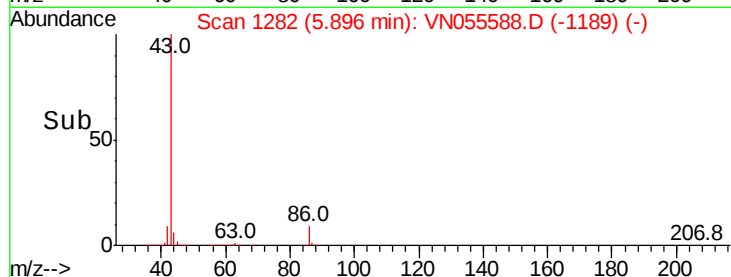
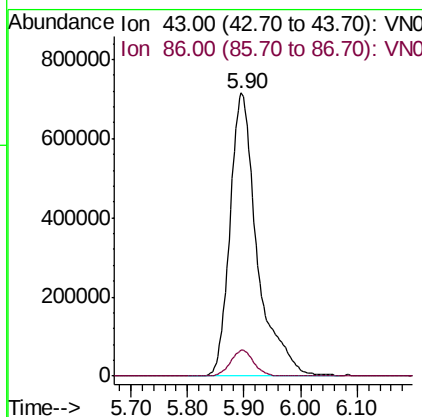
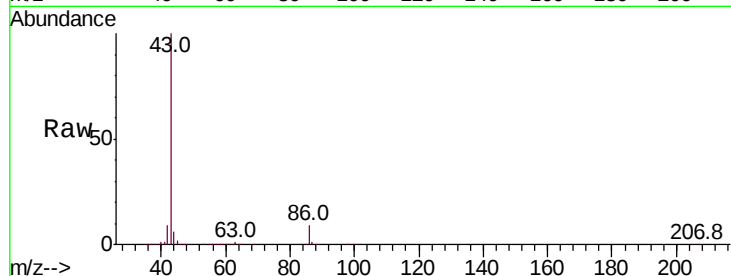
VSTDIC020

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 19.434 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

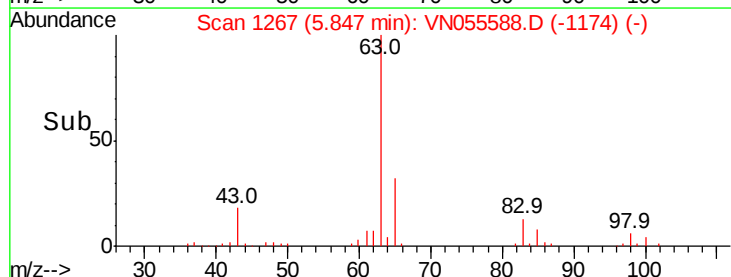
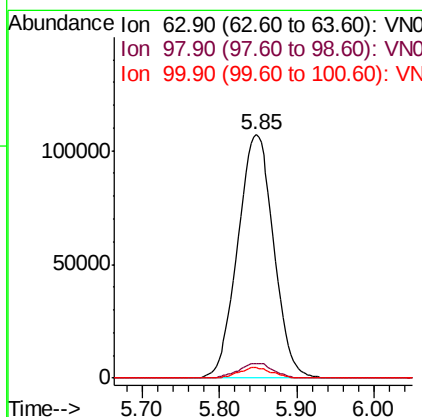
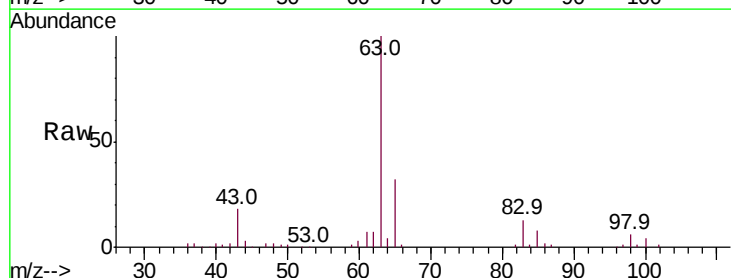
Tgt Ion: 63 Resp: 346280

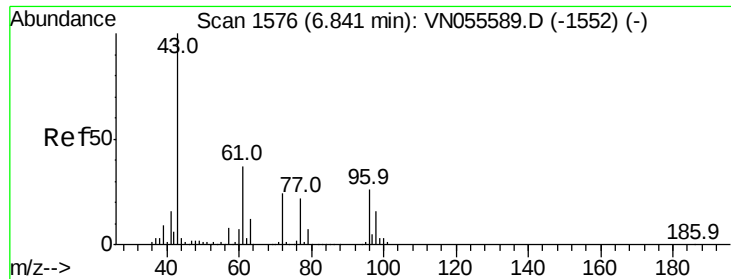
Ion Ratio Lower Upper

63 100

98 5.7 3.0 9.0

100 4.2 2.1 6.3





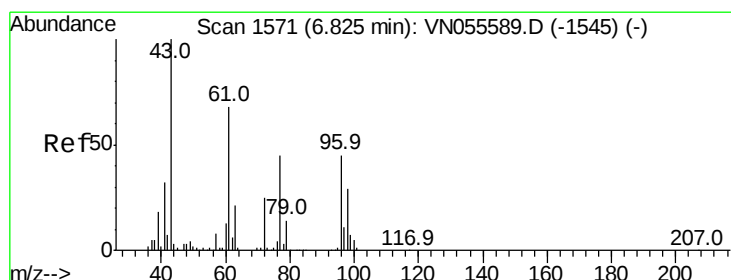
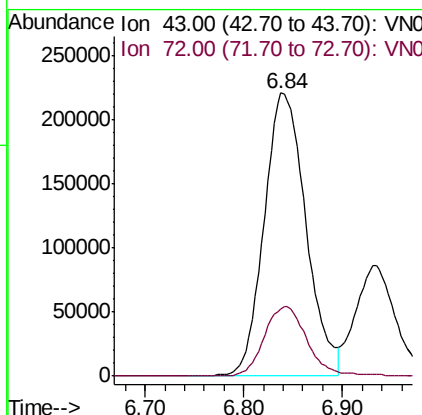
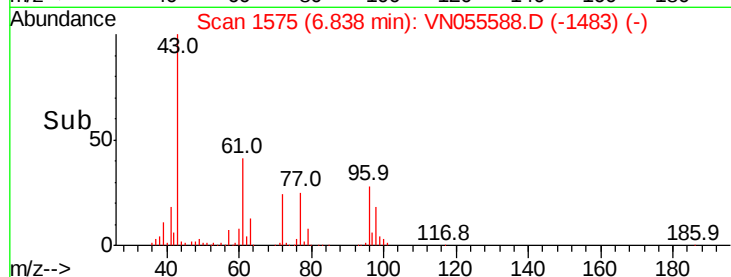
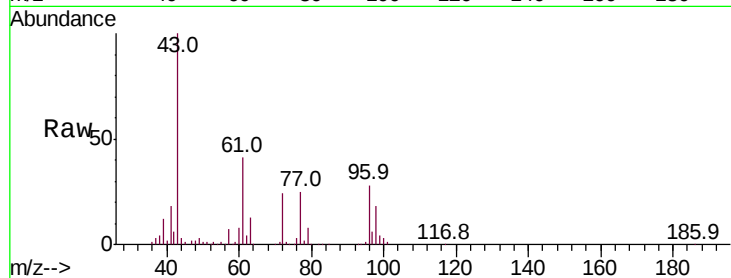
#25
2-Butanone
Concen: 94.391 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	43	72	Ratio	100	24.0	Resp	644962	Lower	19.5	Upper	29.3
Ion	43	72	Ratio	100	24.0	Resp	644962	Lower	19.5	Upper	29.3

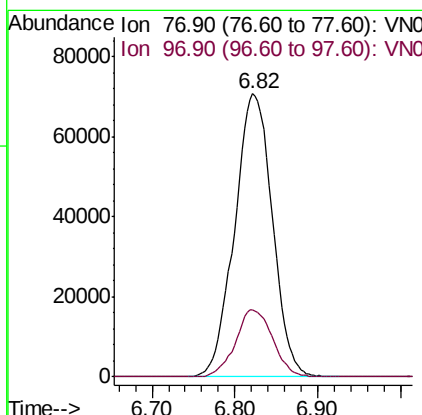
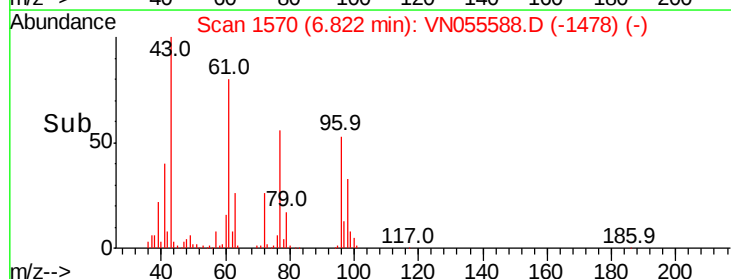
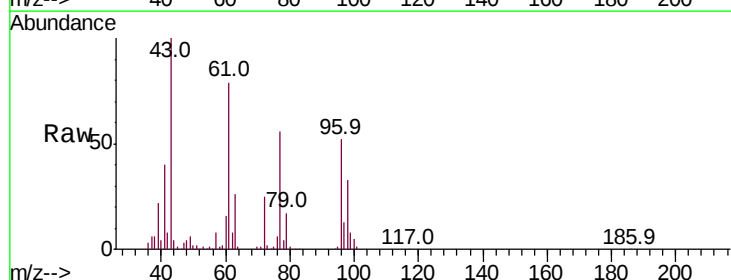
Manual Integrations
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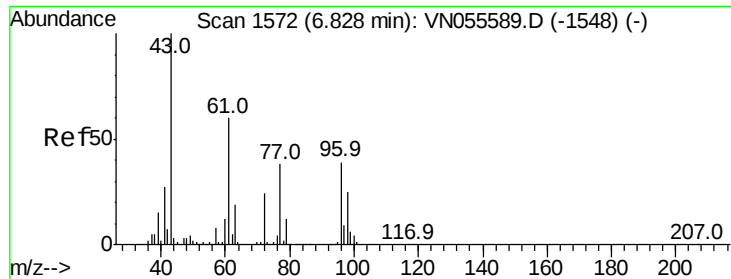
MMDadoda
5/16/2019 1:31:44 PM



#26
2,2-Dichloropropane
Concen: 20.183 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	77	97	Ratio	100	23.4	Resp	223891	Lower	11.7	Upper	35.1
Ion	77	97	Ratio	100	23.4	Resp	223891	Lower	11.7	Upper	35.1





#27

cis-1,2-Dichloroethene

Concen: 20.331 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

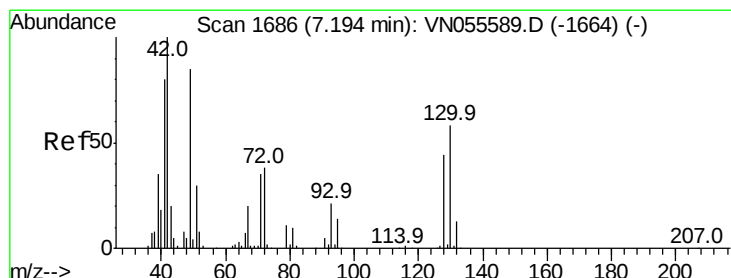
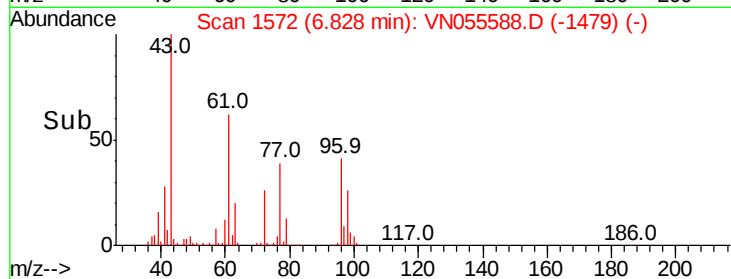
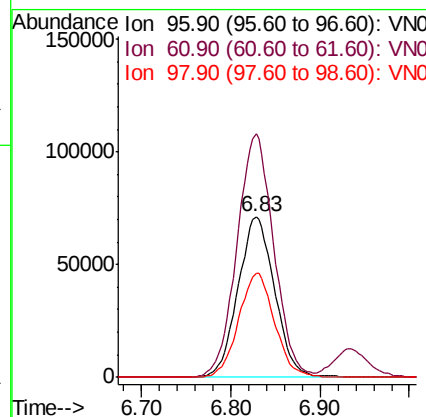
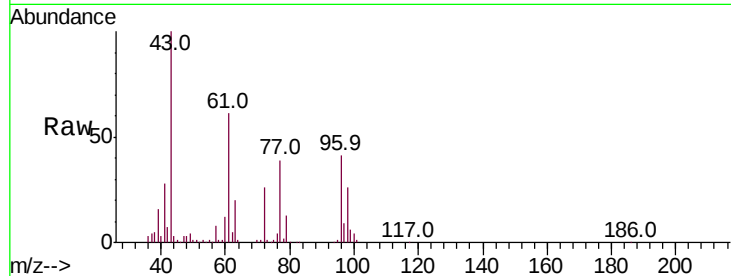
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	202527
Ion Ratio	Lower	Upper	
96	100		
61	152.0	0.0	305.0
98	63.5	0.0	128.2

Manual Integrations
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#28

Bromochloromethane

Concen: 18.075 ug/l

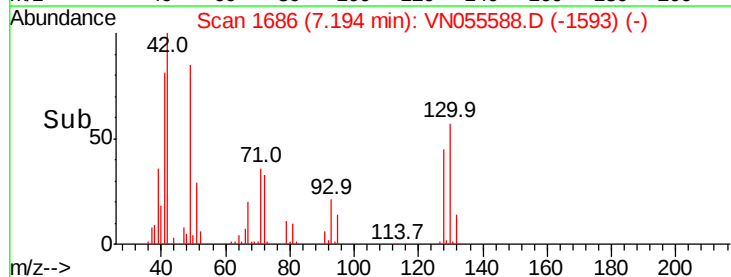
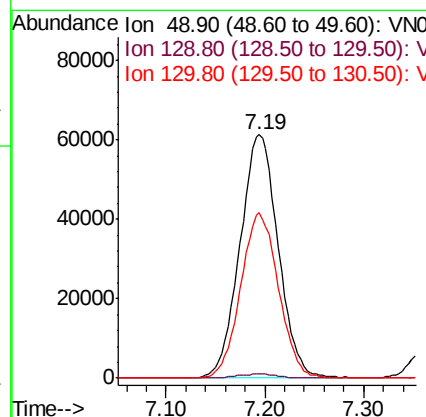
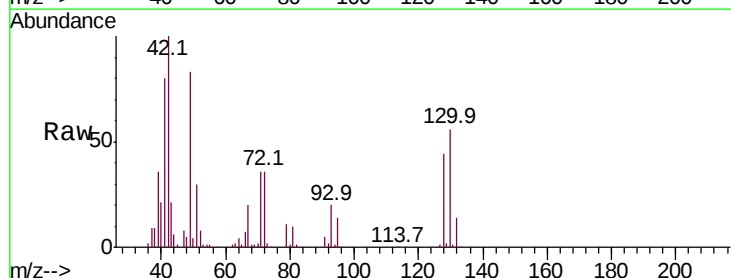
RT: 7.19 min Scan# 1686

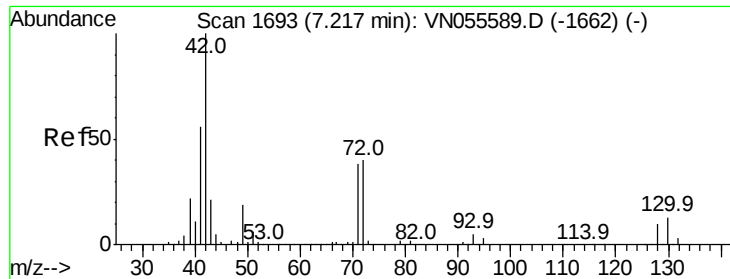
Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Tgt Ion:	49	Resp:	164756
Ion Ratio	Lower	Upper	
49	100		
129	1.7	0.0	3.6
130	67.1	52.4	78.6





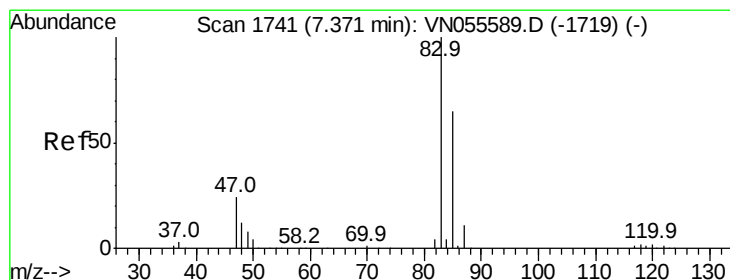
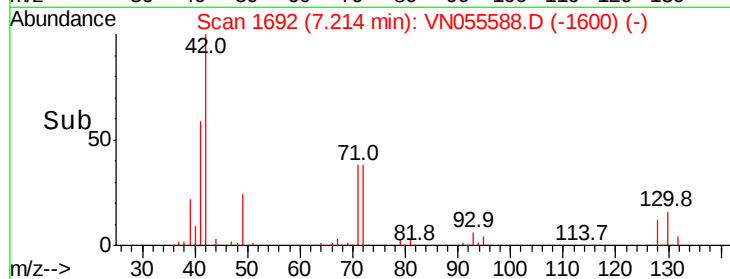
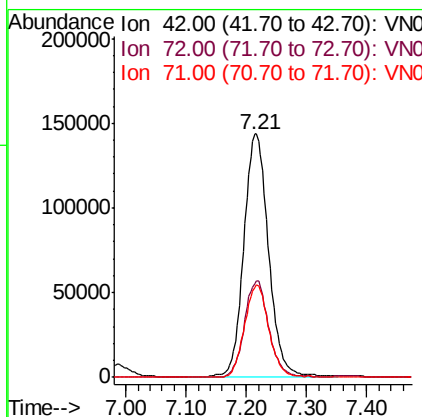
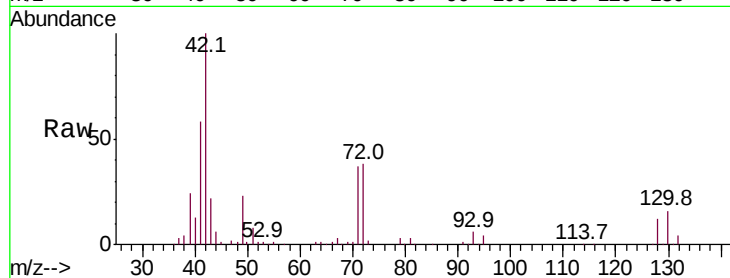
#29
Tetrahydrofuran
Concen: 91.216 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.1	31.4	47.2
71	37.3	29.9	44.9

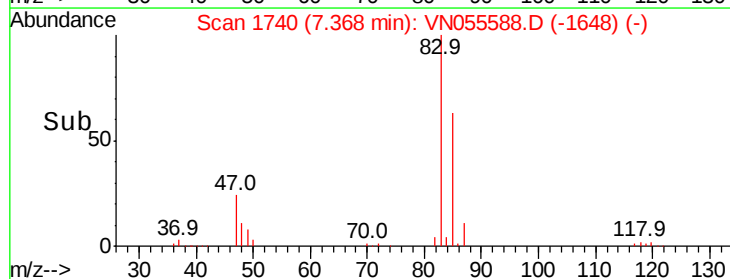
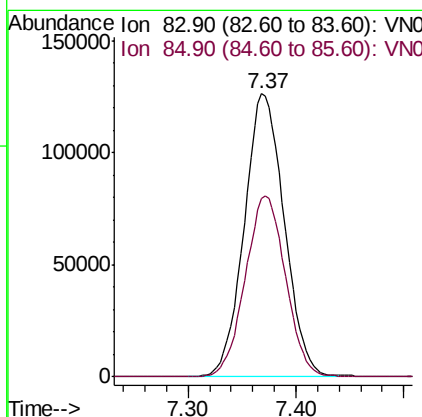
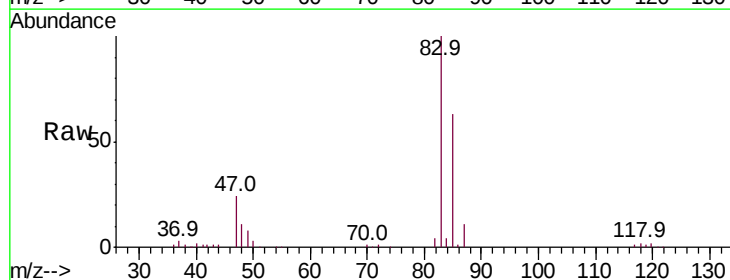
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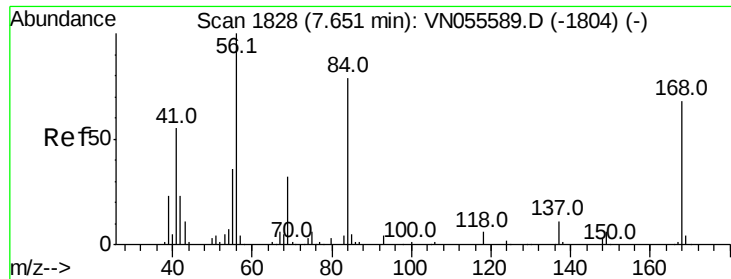
MMDadoda
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#30
Chloroform
Concen: 19.802 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.9	77.9





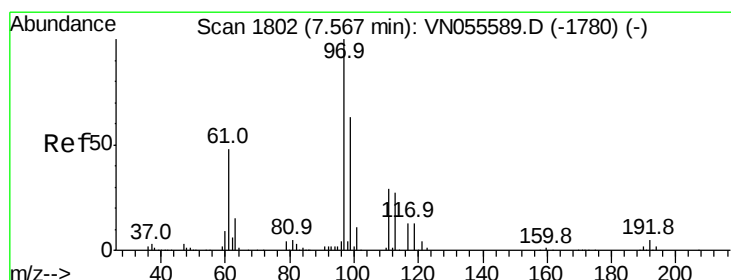
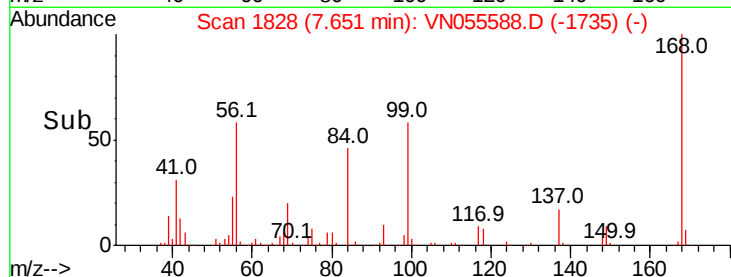
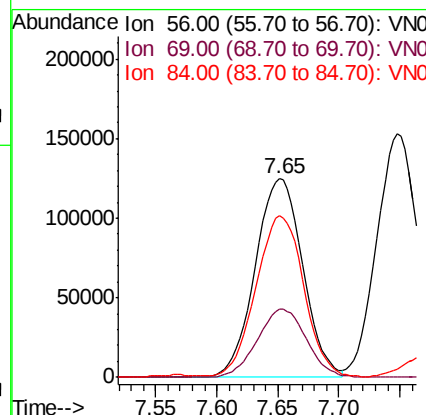
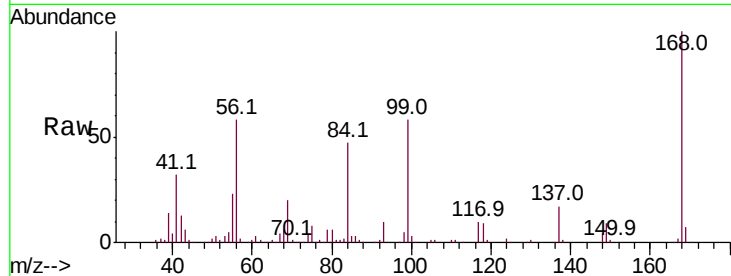
#31
Cyclohexane
Concen: 19.164 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.4	25.7	38.5
84	80.4	63.4	95.0

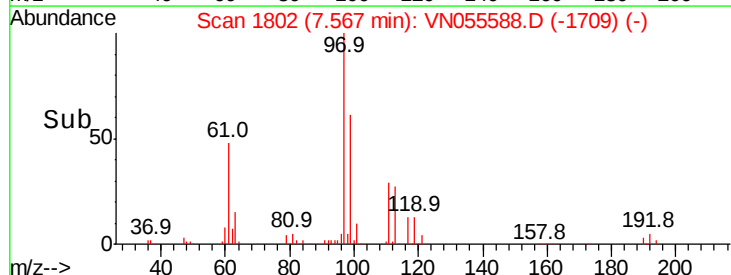
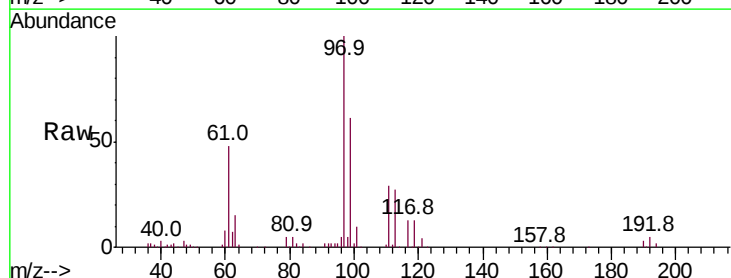
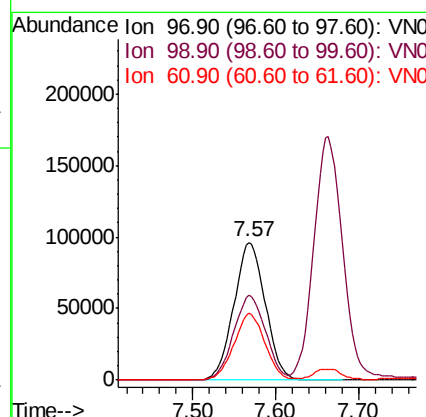
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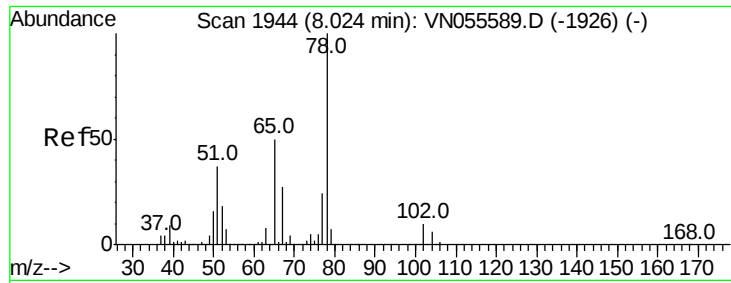
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 20.211 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.5	50.8	76.2
61	47.7	38.7	58.1





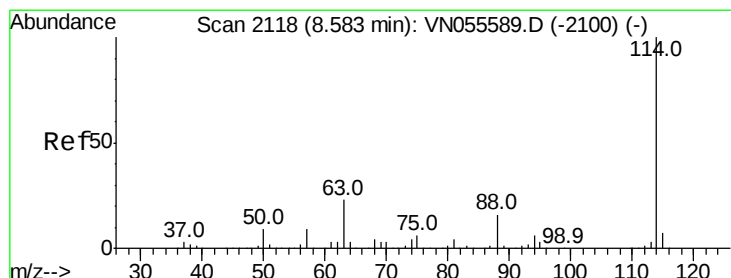
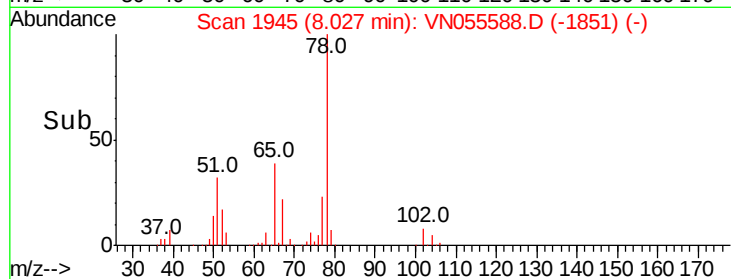
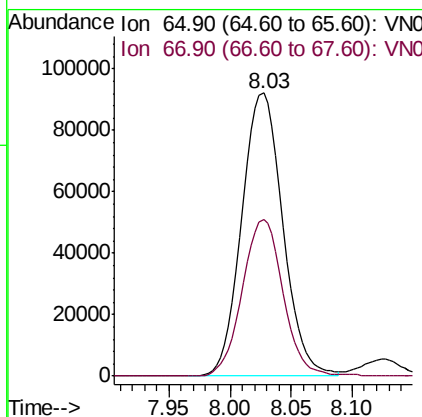
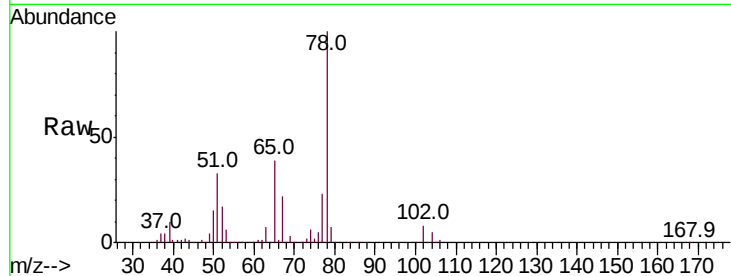
#33
 1,2-Dichloroethane-d4
 Concen: 19.734 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	214882		
67	54.6	0.0	109.8	

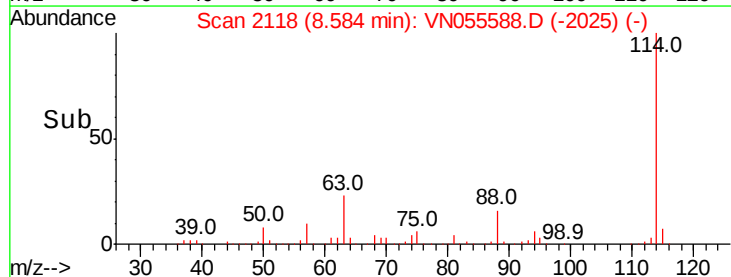
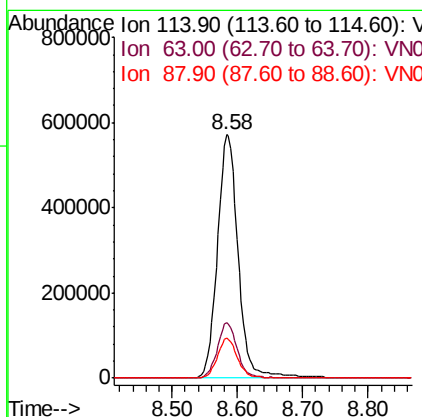
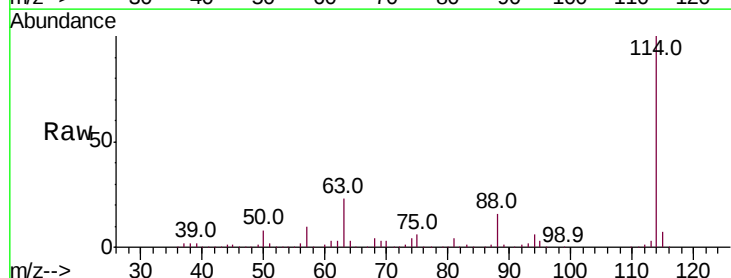
Manual Integrations
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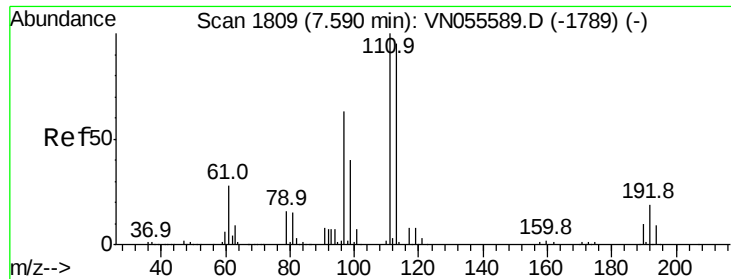
MMDadoda
 5/16/2019 1:31:44 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1262634		
63	22.8	0.0	45.8	
88	16.4	0.0	32.6	





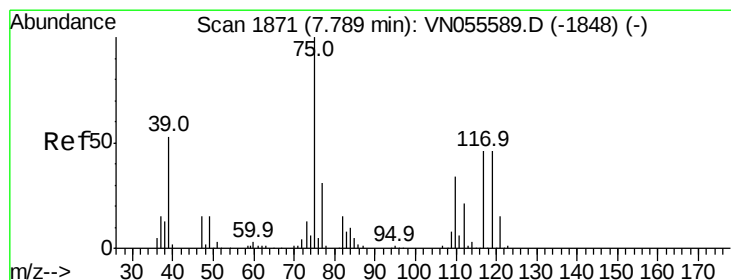
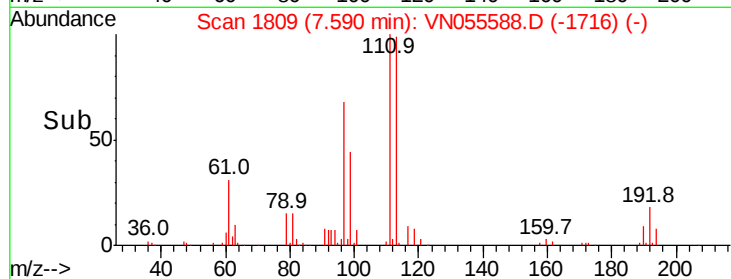
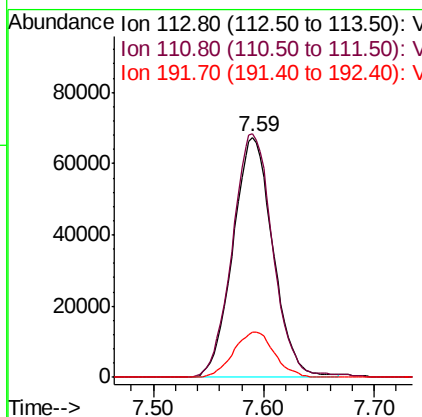
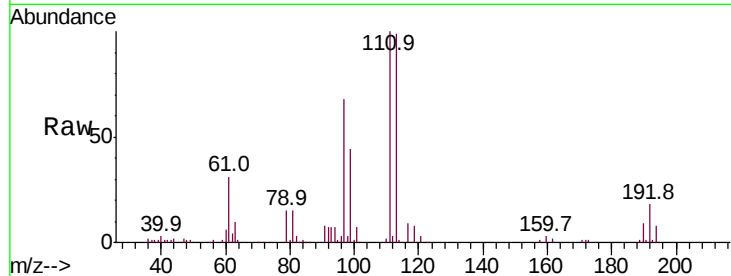
#35
 Dibromofluoromethane
 Concen: 20.761 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	169285		
111	102.7	83.5	125.3	
192	19.3	16.0	24.0	

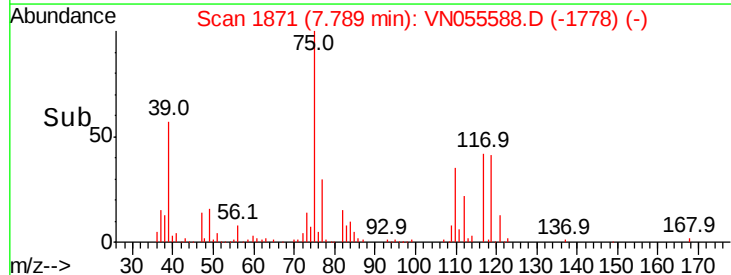
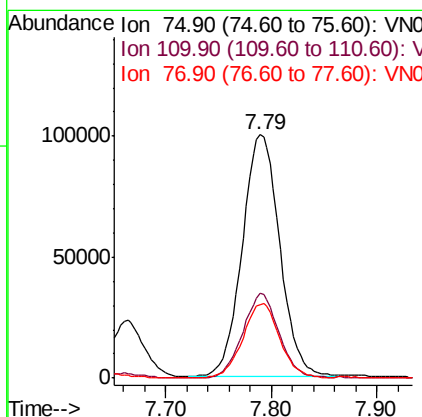
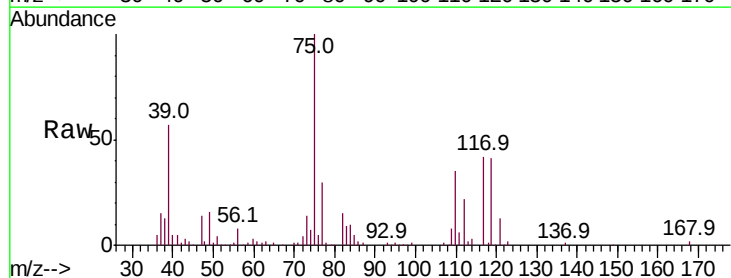
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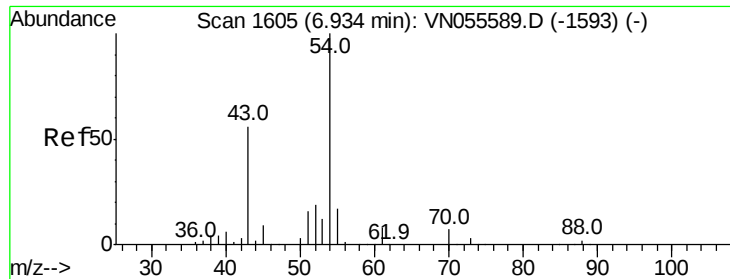
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 5/16/2019 1:31:44 PM



#36
 1,1-Dichloropropene
 Concen: 20.035 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	247900		
110	33.8	16.9	50.7	
77	30.6	24.9	37.3	





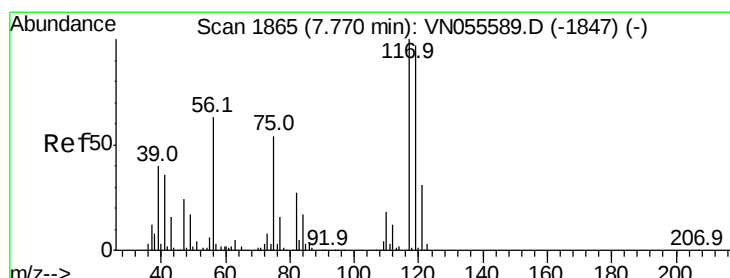
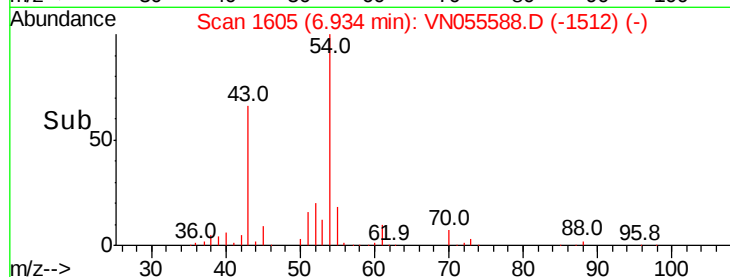
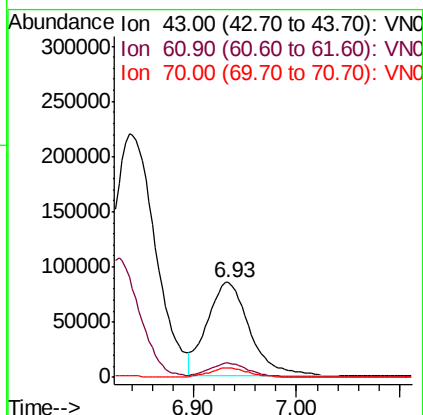
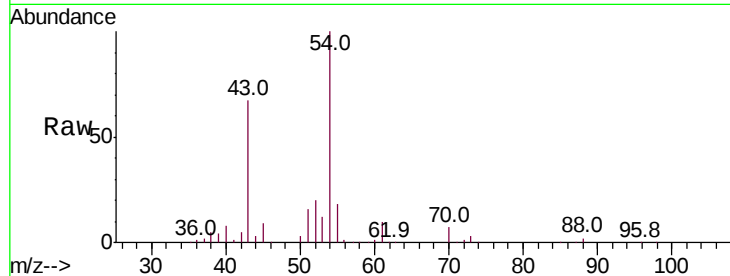
#37
Ethyl Acetate
Concen: 18.452 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.7	10.8	16.2
70	9.1	7.4	11.2

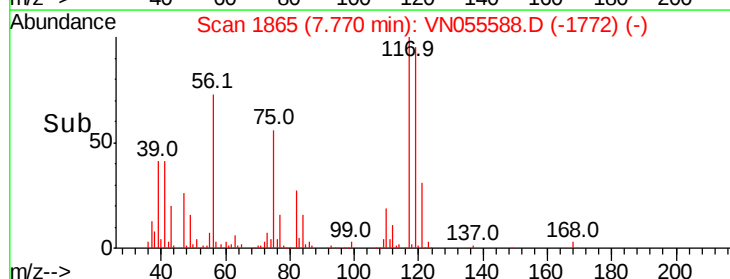
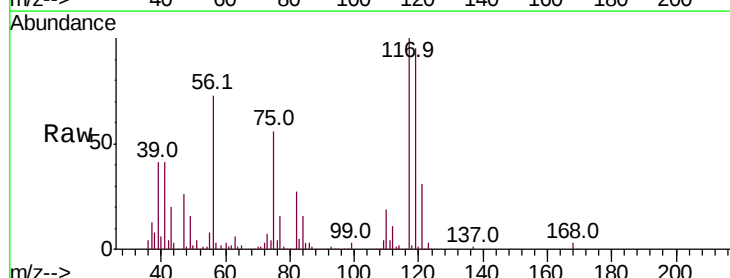
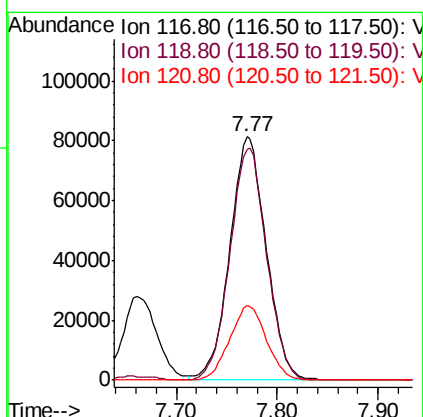
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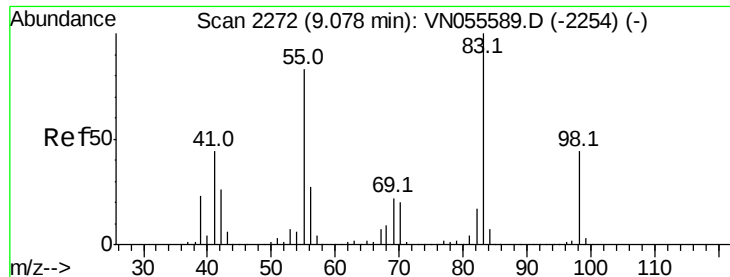
MMDadoda
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#38
Carbon Tetrachloride
Concen: 19.440 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.1	115.7
121	30.5	24.4	36.6





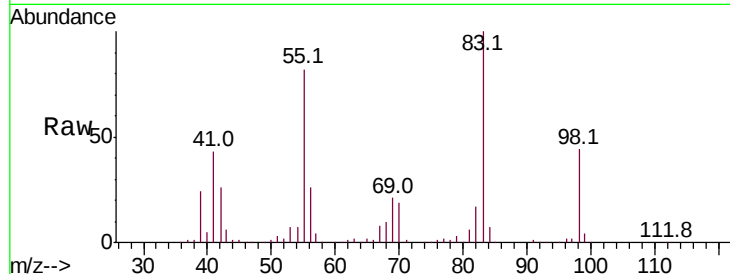
#39
Methvlcvclohexane
Concen: 19.208 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

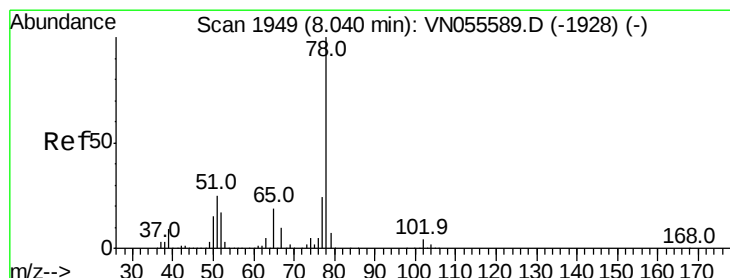
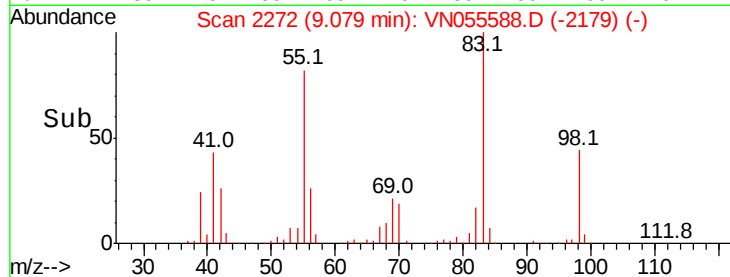
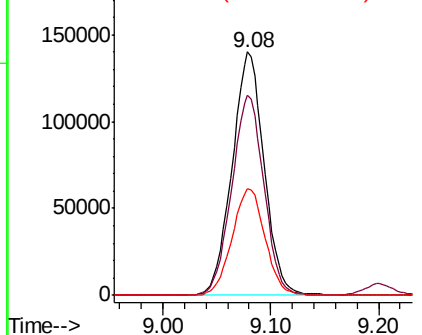
Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	82.2	66.3	99.5	
98	43.6	34.8	52.2	

Manual Integrations
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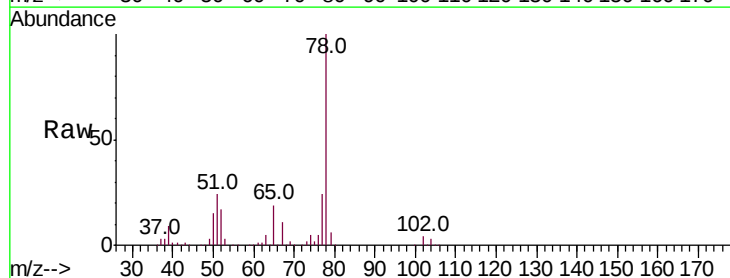


Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 98.00 (97.70 to 98.70): VNO

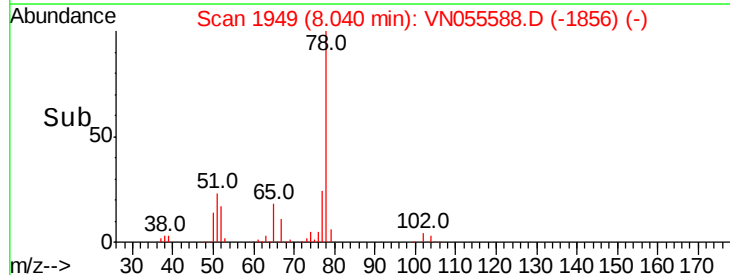
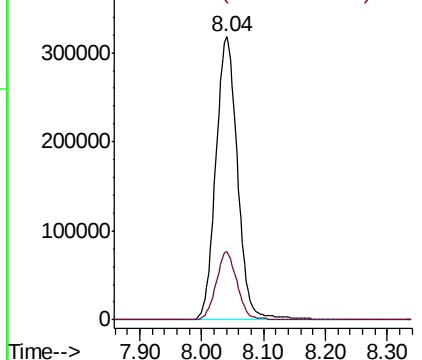


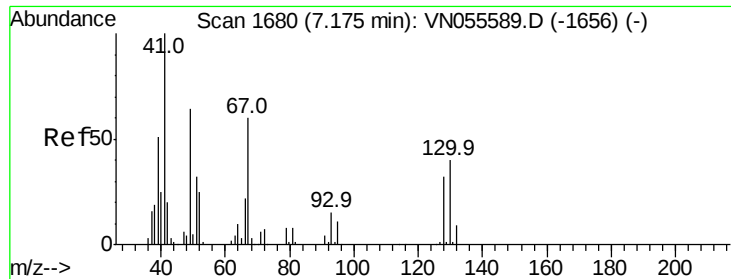
#40
Benzene
Concen: 20.265 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.1	18.9	28.3	



Abundance Ion 78.00 (77.70 to 78.70): VNO
Ion 77.00 (76.70 to 77.70): VNO





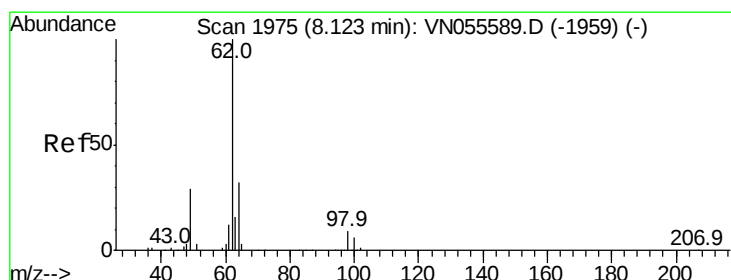
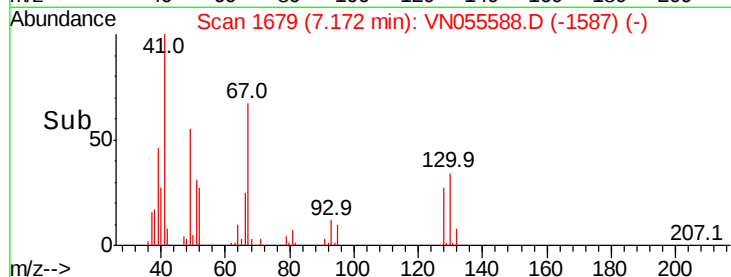
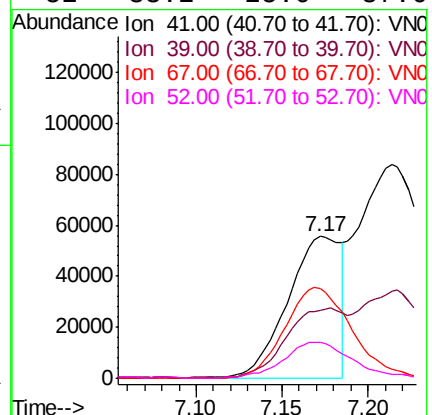
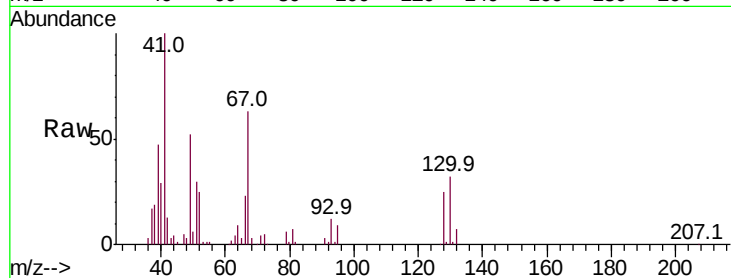
#41
Methacrylonitrile
Concen: 19.623 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.7	44.1	66.1
67	81.1	63.4	95.0
52	33.2	25.0	37.6

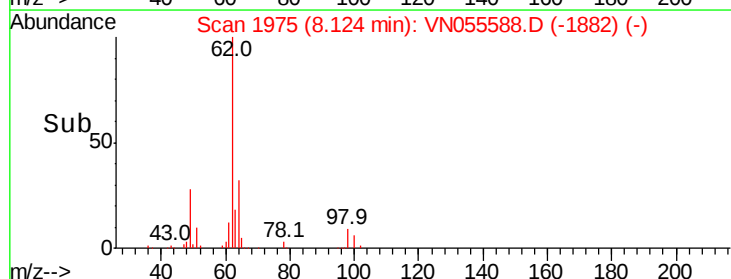
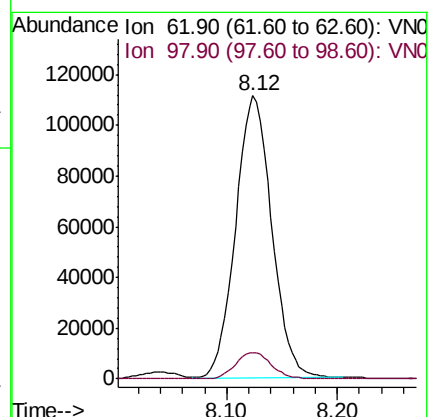
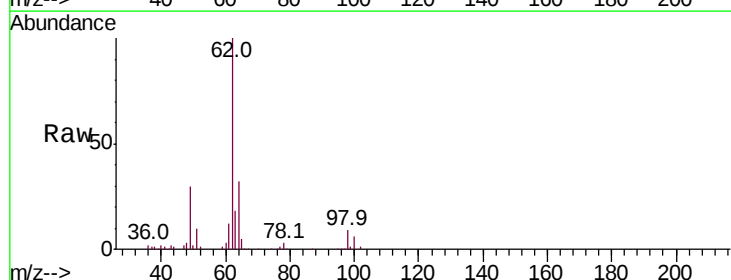
Manual Integrations
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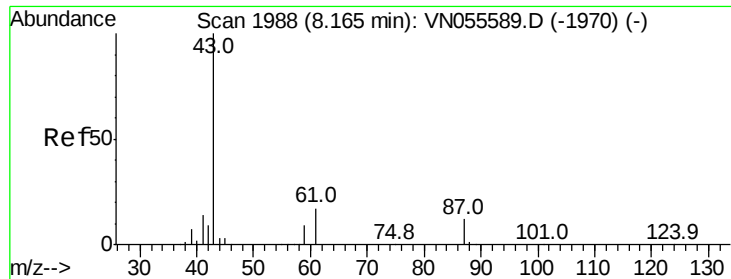
MMDadoda
5/16/2019 1:31:44 PM



#42
1,2-Dichloroethane
Concen: 18.858 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.0





#43

Isopropyl Acetate

Concen: 18.460 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

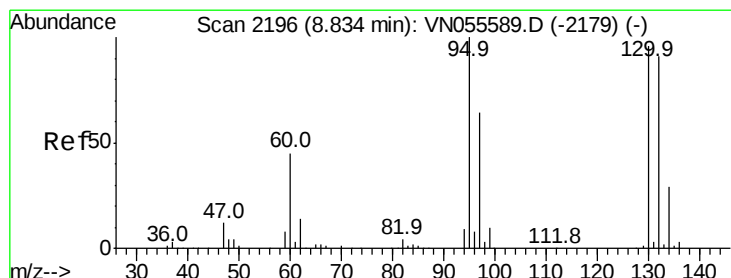
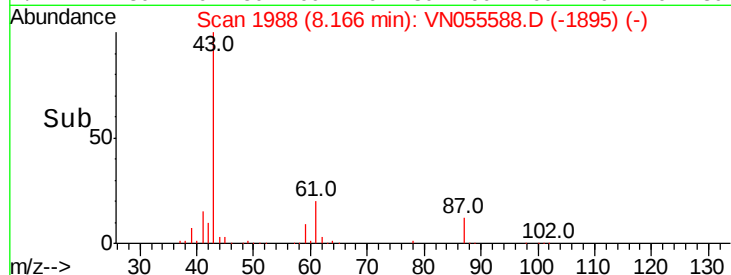
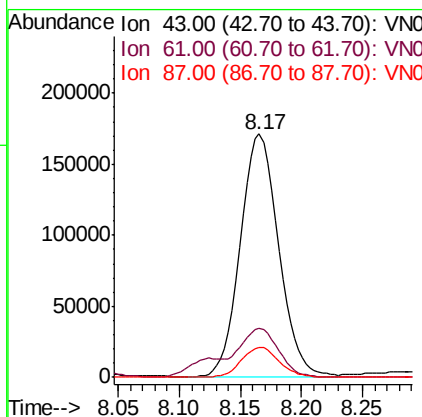
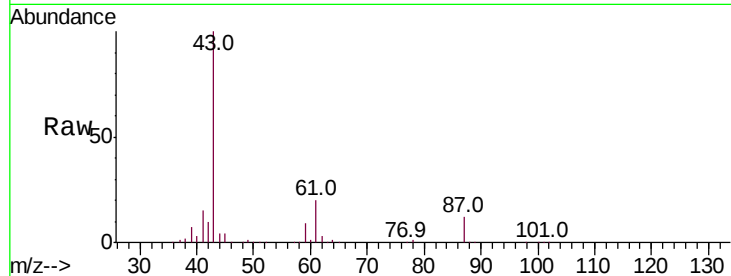
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	369992
Ion	Ratio	Lower	Upper
43	100		
61	20.6	16.1	24.1
87	12.2	9.6	14.4

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#44

Trichloroethene

Concen: 20.425 ug/l

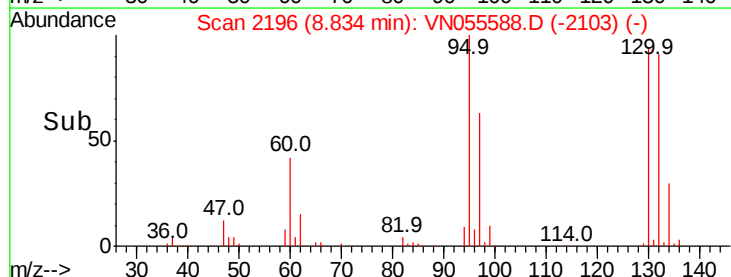
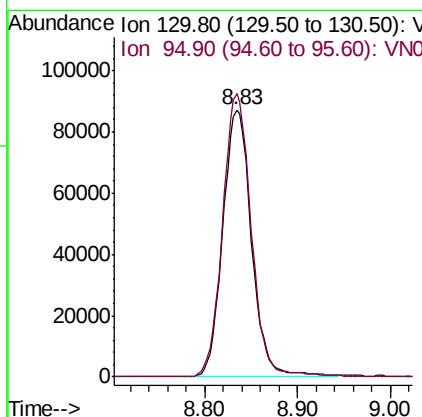
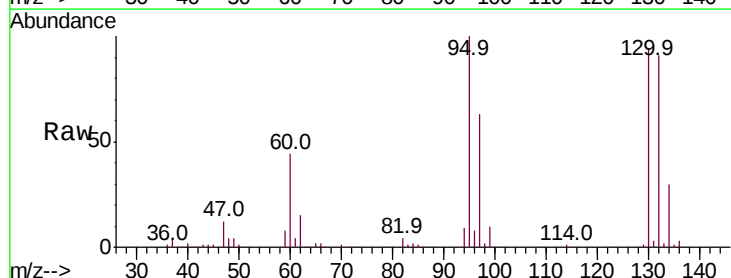
RT: 8.83 min Scan# 2196

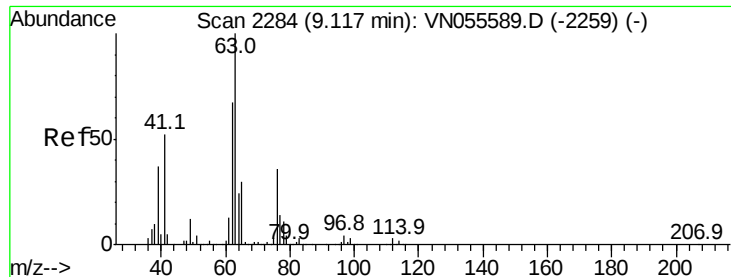
Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Tgt Ion:	130	Resp:	187718
Ion	Ratio	Lower	Upper
130	100		
95	106.1	0.0	208.6





#45

1,2-Dichloropropane

Concen: 19.634 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 215018

Ion Ratio Lower Upper

63 100

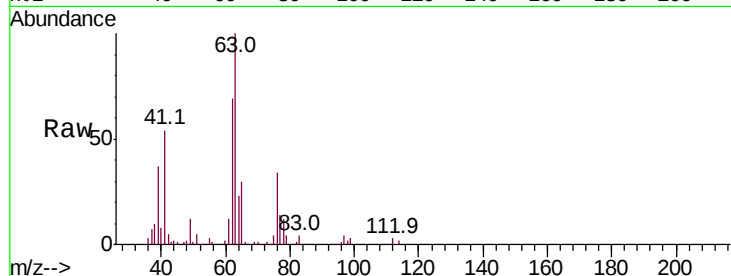
65 29.6 24.1 36.1

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

120000

100000

80000

60000

40000

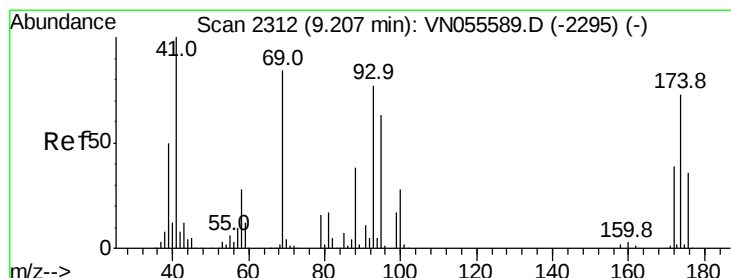
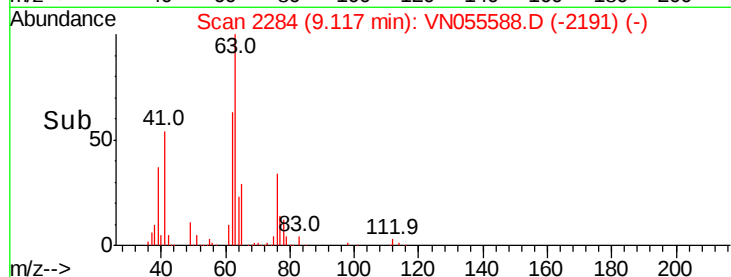
20000

0

9.00 9.10 9.20

9.12

Time-->



#46

Dibromomethane

Concen: 19.933 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

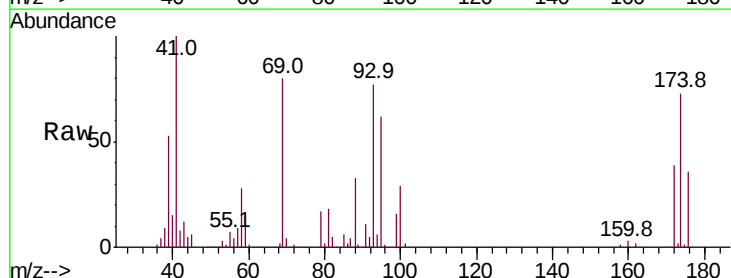
Tgt Ion: 93 Resp: 126430

Ion Ratio Lower Upper

93 100

95 81.1 66.6 100.0

174 96.6 78.4 117.6



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

80000

60000

40000

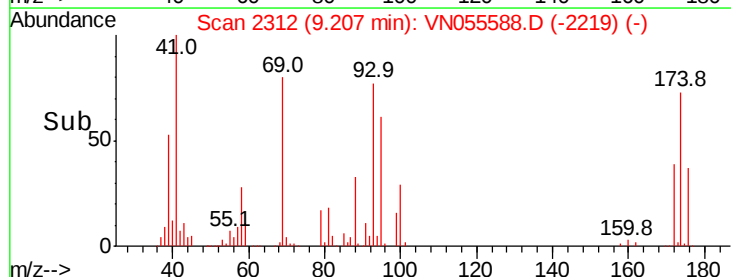
20000

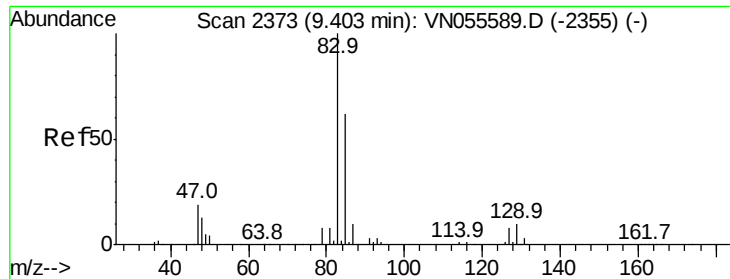
0

9.10 9.15 9.20 9.25 9.30

9.21

Time-->





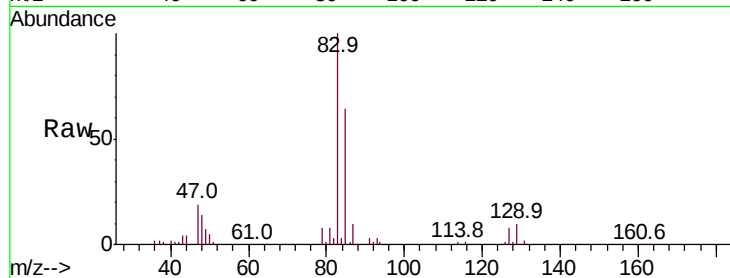
#47
Bromodichloromethane
Concen: 19.527 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

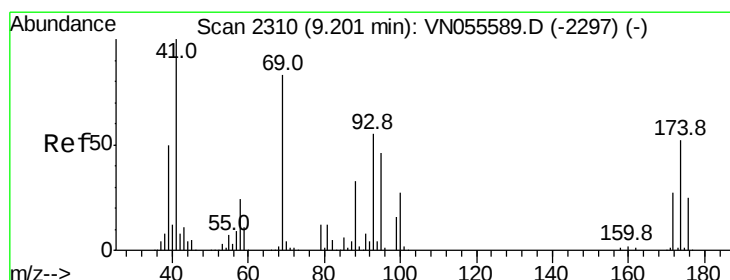
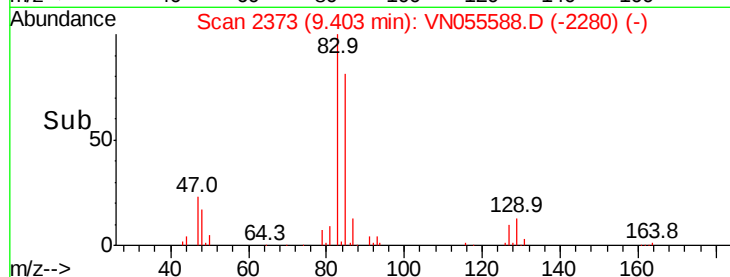
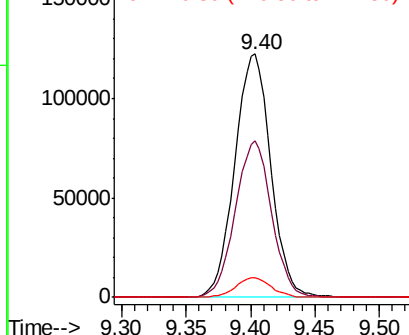
Tot Ion	83	Resp	237934
Ion Ratio	100	Lower	Upper
83	100		
85	64.3	49.6	74.4
127	8.2	6.6	9.8

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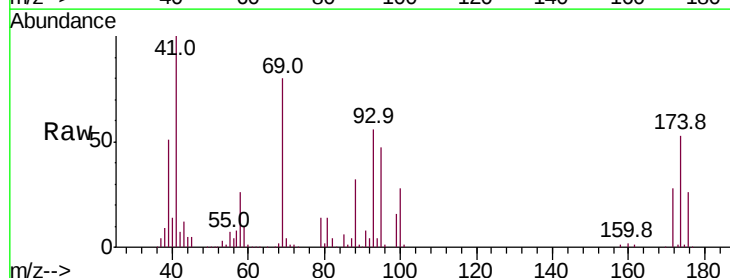


Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO

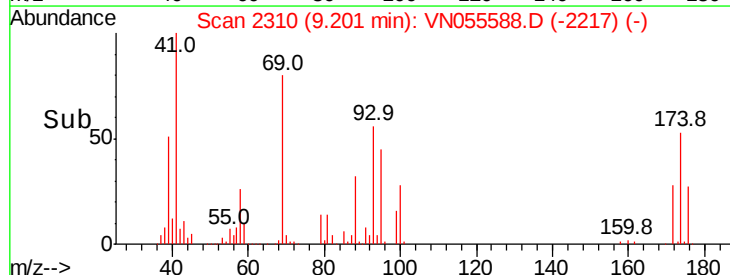
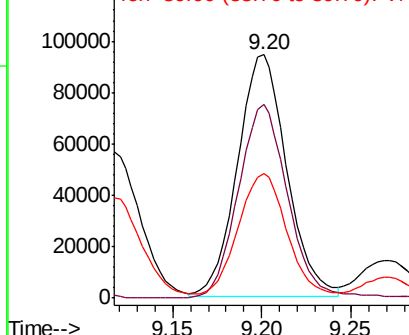


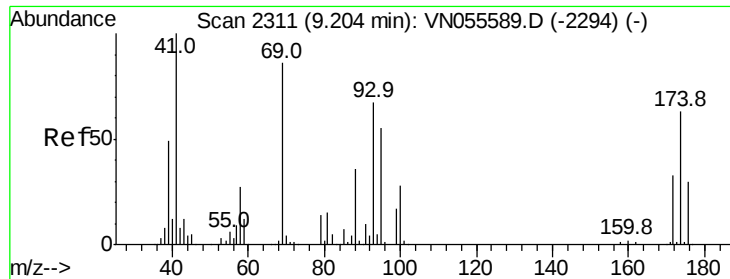
#48
Methyl methacrylate
Concen: 18.762 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	41	Resp	181732
Ion Ratio	100	Lower	Upper
41	100		
69	81.3	65.7	98.5
39	51.2	40.2	60.4



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 354.234 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 88 Resp: 66436

Ion Ratio Lower Upper

88 100

43 31.6 25.4 38.0

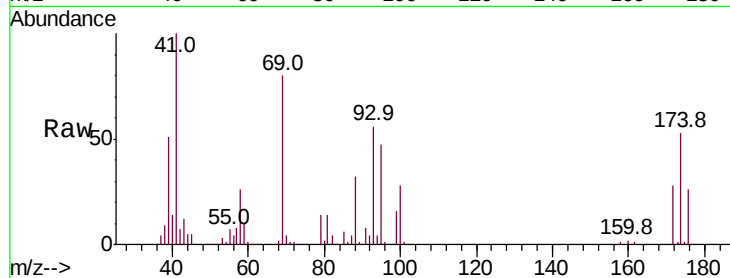
58 76.7 59.4 89.2

Manual Integrations

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Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

200000

150000

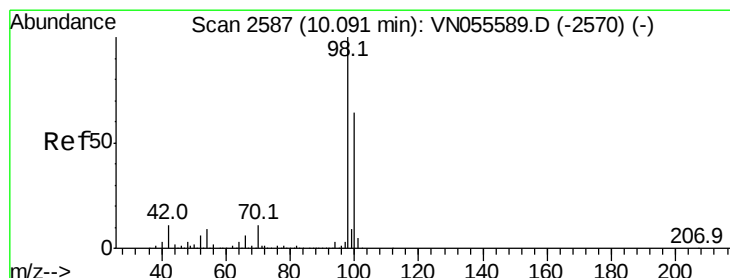
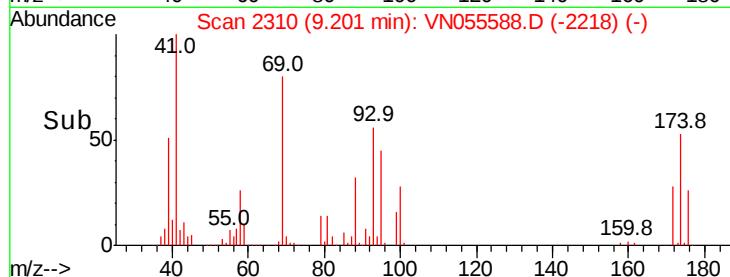
100000

50000

0

9.10 9.20 9.30

Time-->



#50

Toluene-d8

Concen: 20.433 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055588.D

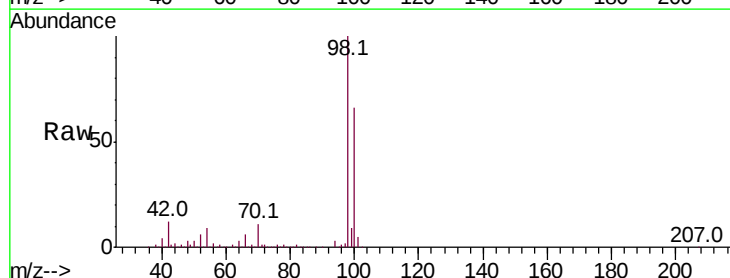
Acq: 14 May 2019 12:22

Tgt Ion: 98 Resp: 648380

Ion Ratio Lower Upper

98 100

100 63.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

300000

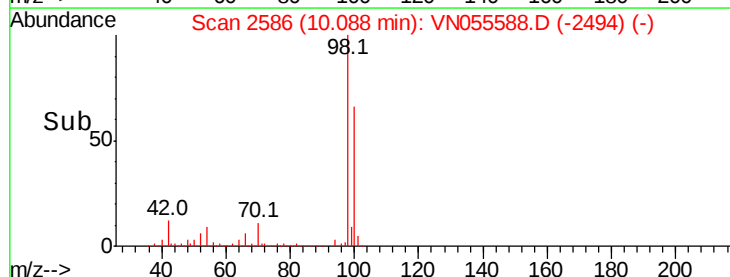
200000

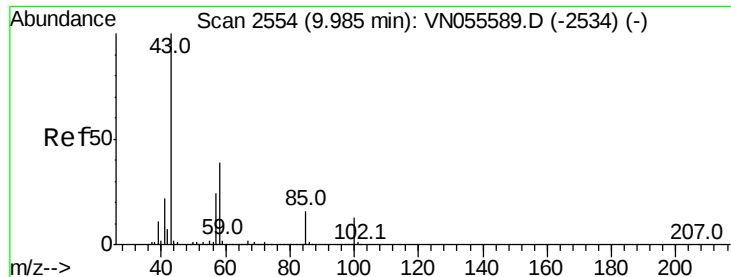
100000

0

10.00 10.09 10.20

Time-->





#51

4-Methyl-2-Pentanone

Concen: 89.133 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 1169321

Ion Ratio Lower Upper

43 100

58 38.0

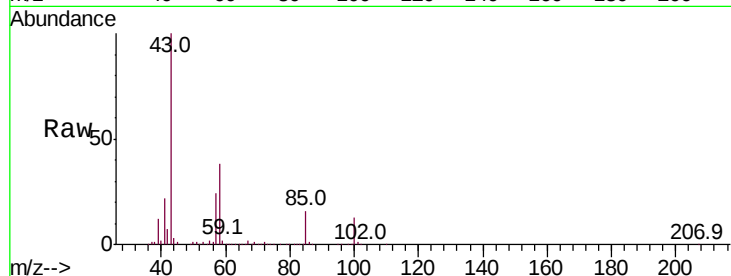
30.6

46.0

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

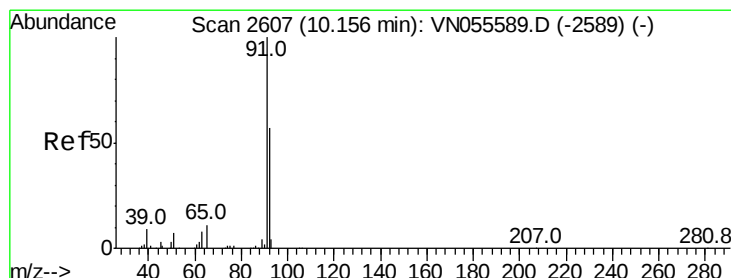
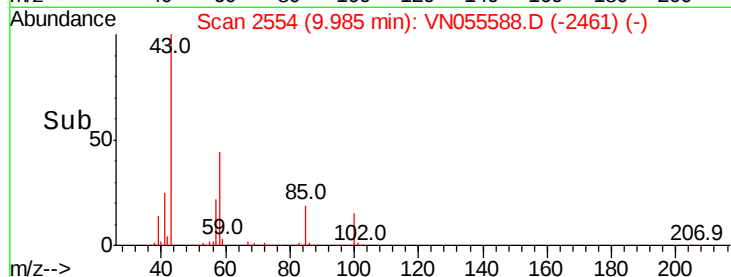
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 20.129 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Tgt Ion: 92 Resp: 441939

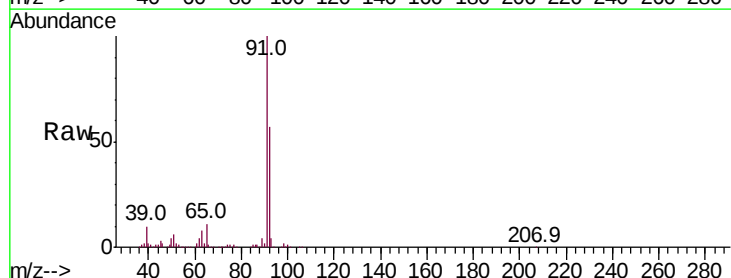
Ion Ratio Lower Upper

92 100

91 177.2

141.5

212.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.15

400000

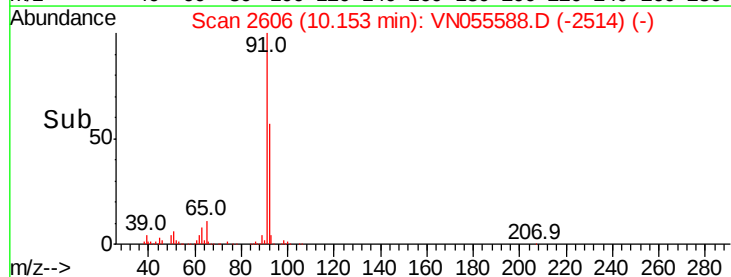
300000

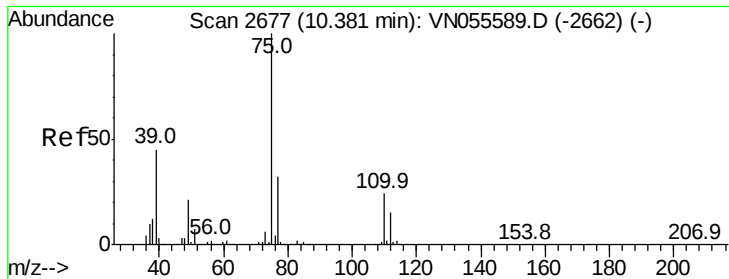
200000

100000

0

Time-->





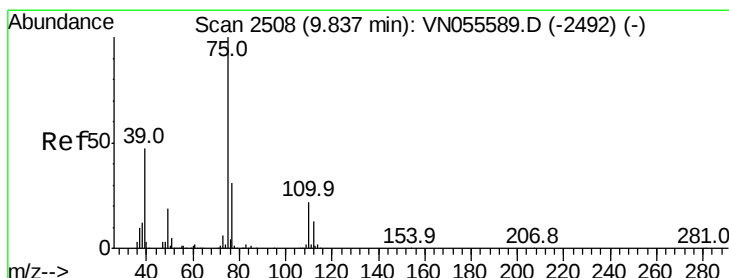
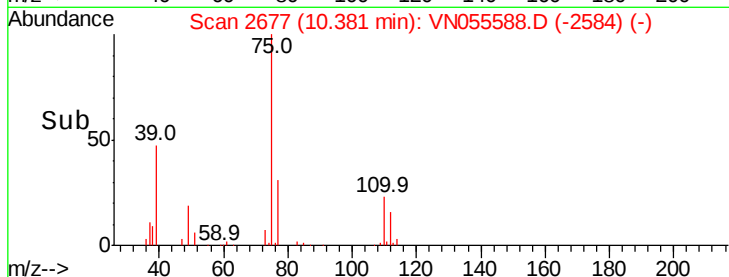
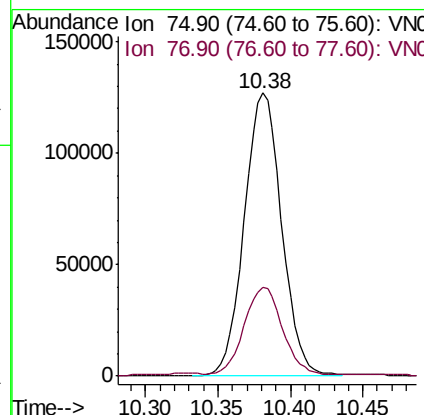
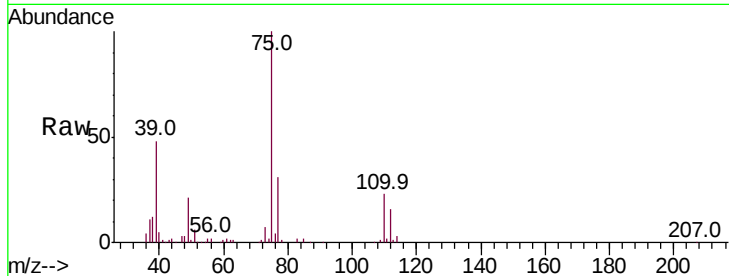
#53
t-1,3-Dichloropropene
Concen: 19.601 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 228306
Ion Ratio Lower Upper
75 100
77 30.6 25.5 38.3

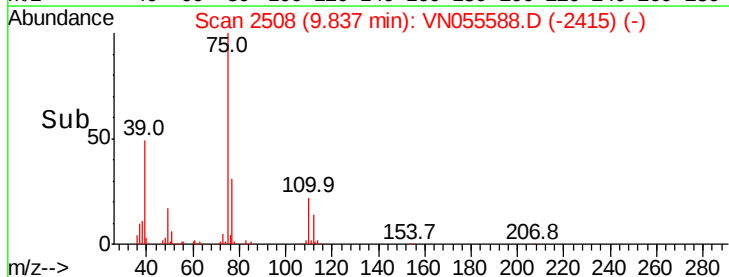
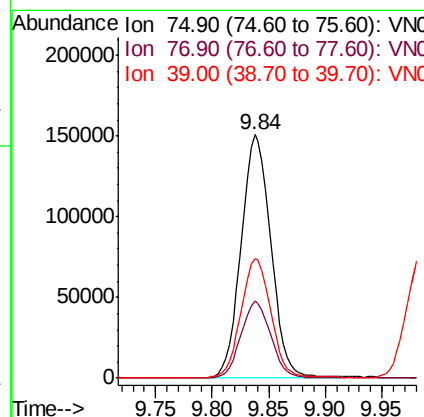
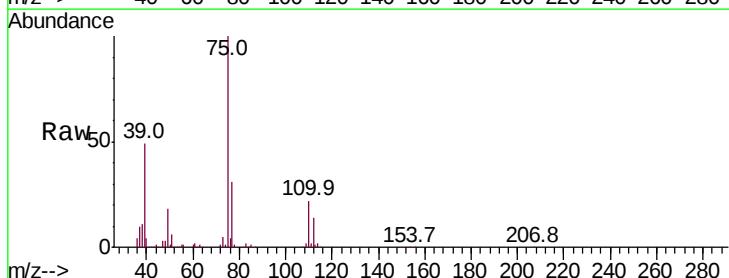
Manual Integrations
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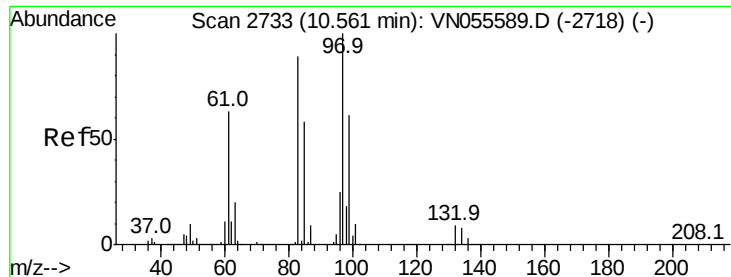
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 19.907 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion: 75 Resp: 277982
Ion Ratio Lower Upper
75 100
77 31.5 24.5 36.7
39 49.2 37.7 56.5





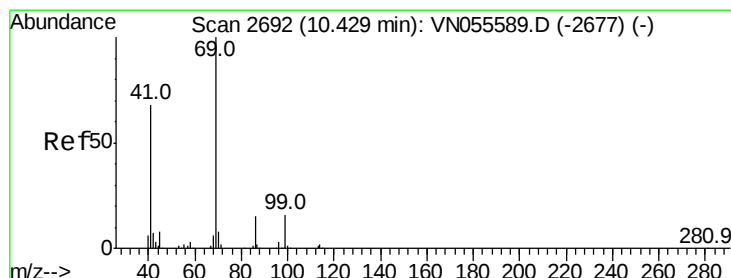
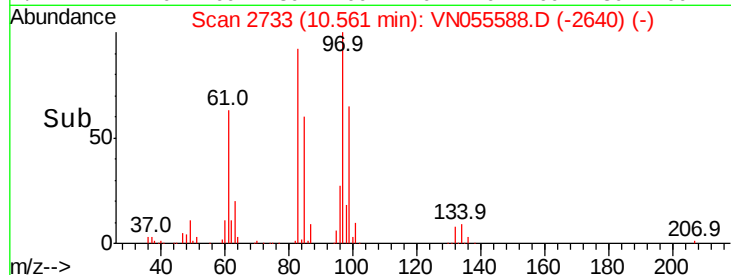
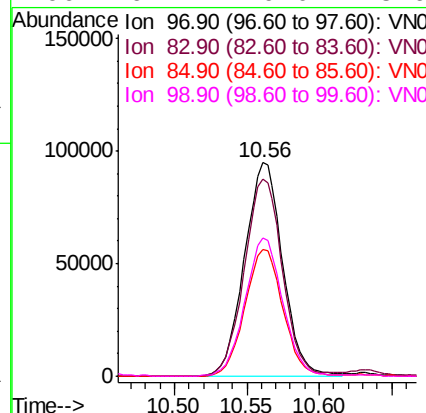
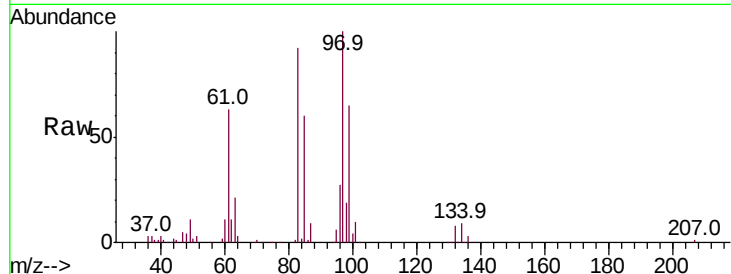
#55
 1,1,2-Trichloroethane
 Concen: 19.527 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	173330
Ion	Ratio	Lower	Upper
97	100		
83	92.4	71.5	107.3
85	59.6	46.2	69.4
99	64.7	49.0	73.6

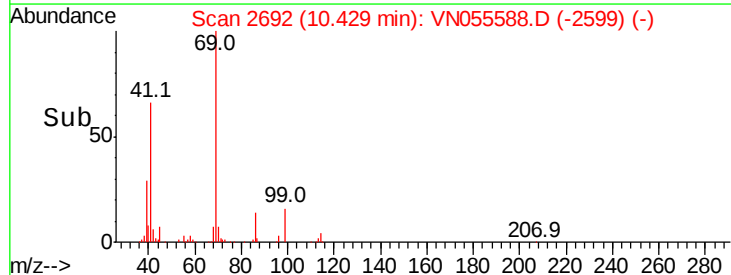
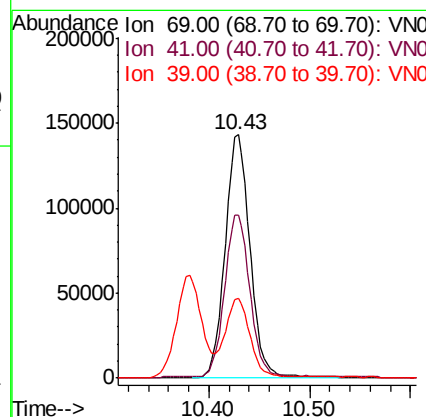
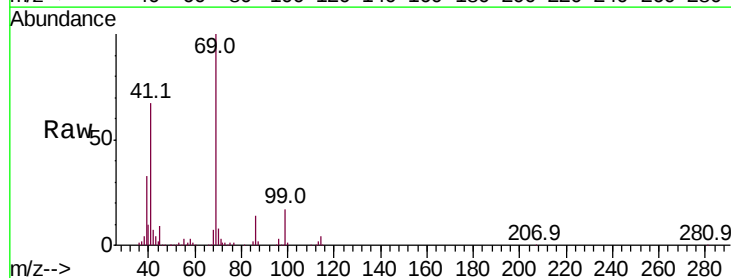
Manual Integrations
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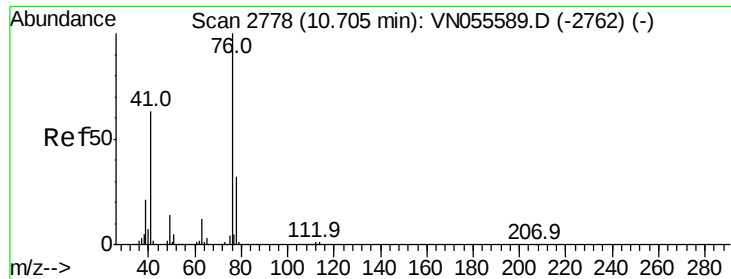
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 19.003 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Tgt Ion:	69	Resp:	248328
Ion	Ratio	Lower	Upper
69	100		
41	66.6	54.6	82.0
39	31.7	25.5	38.3





#57

1,3-Dichloropropane

Concen: 19.607 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 307912

Ion Ratio Lower Upper

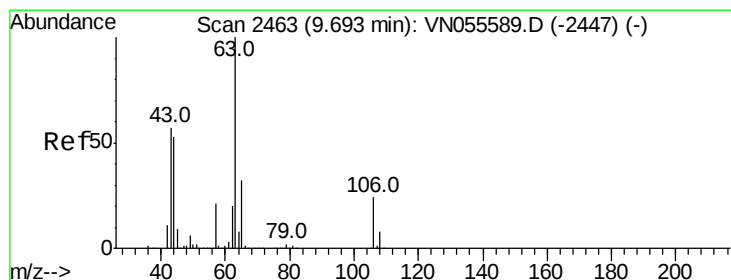
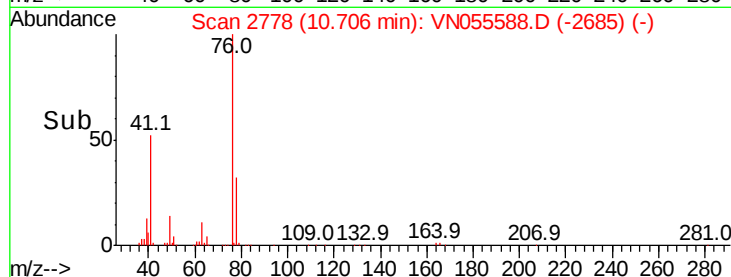
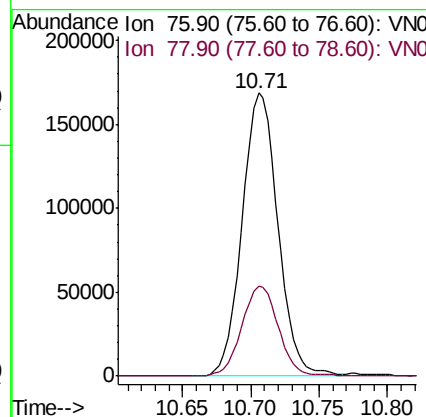
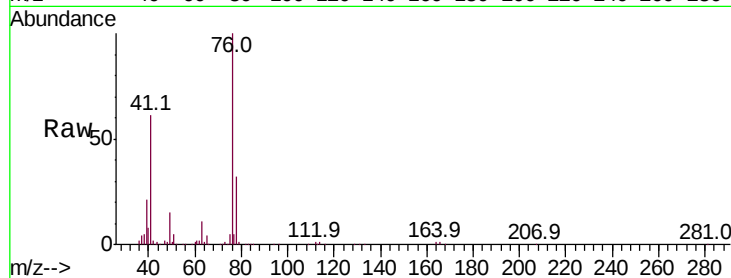
76 100

78 32.9 25.6 38.4

Manual Integrations
APPROVED

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#58

2-Chloroethyl Vinyl ether

Concen: 91.639 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN055588.D

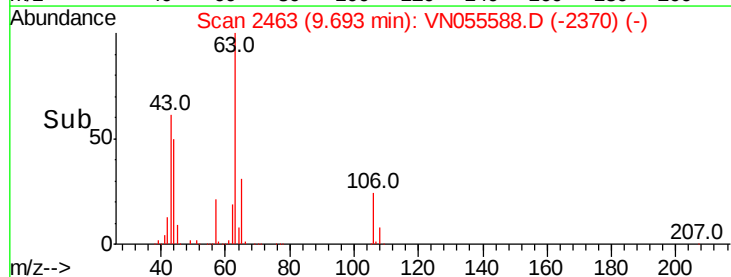
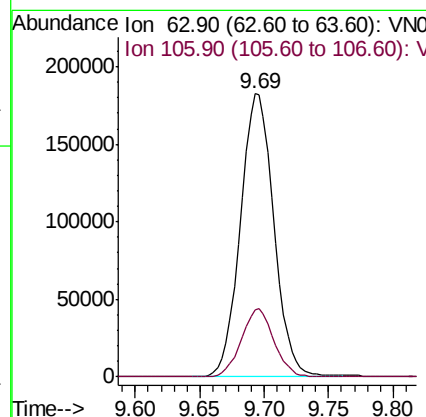
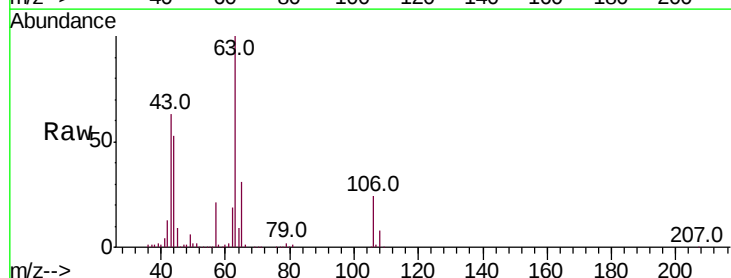
Acq: 14 May 2019 12:22

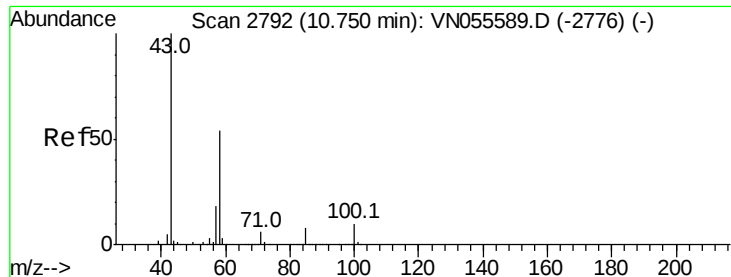
Tgt Ion: 63 Resp: 330047

Ion Ratio Lower Upper

63 100

106 23.4 19.0 28.4





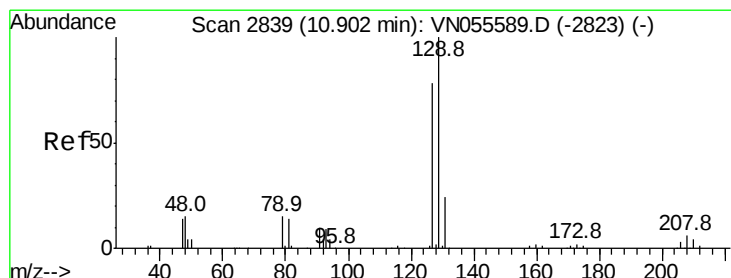
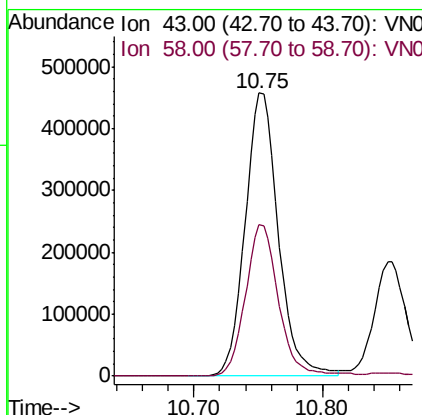
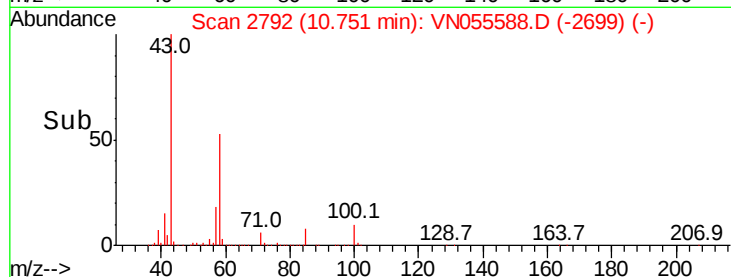
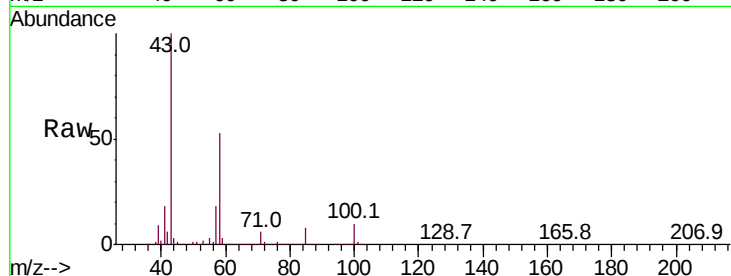
#59
2-Hexanone
Concen: 89.277 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion: 43 Resp: 820137
Ion Ratio Lower Upper
43 100
58 53.5 27.0 80.8

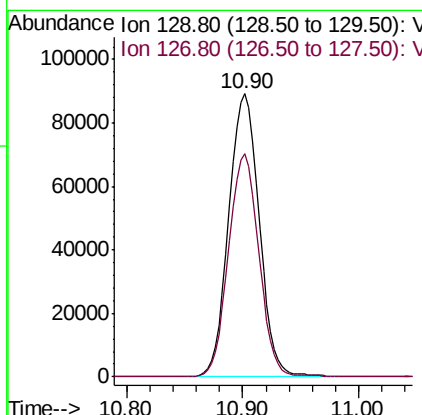
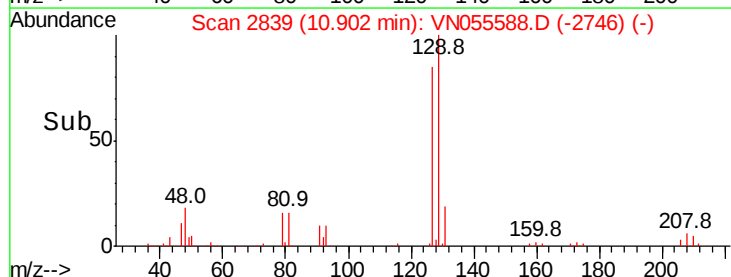
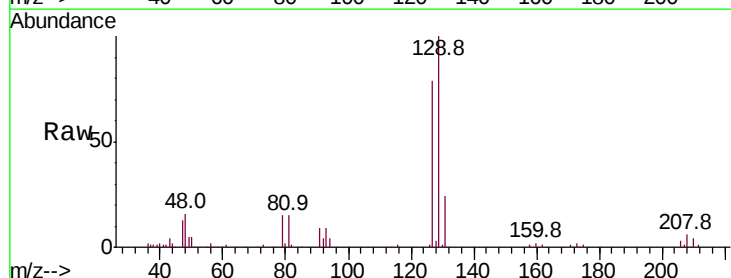
Manual Integrations
APPROVED

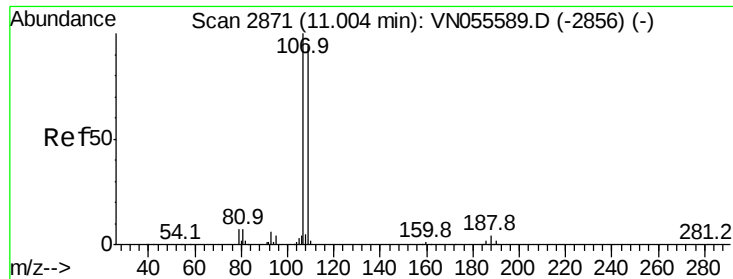
MMDadoda
5/16/2019 1:31:44 PM



#60
Dibromochloromethane
Concen: 20.109 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion: 129 Resp: 162398
Ion Ratio Lower Upper
129 100
127 78.5 39.1 117.2





#61

1,2-Dibromoethane

Concen: 20.052 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 170524

Ion Ratio Lower Upper

107 100

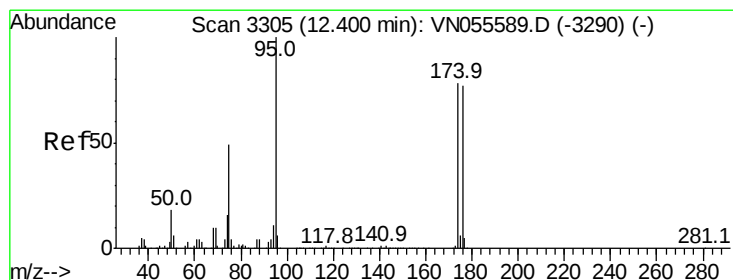
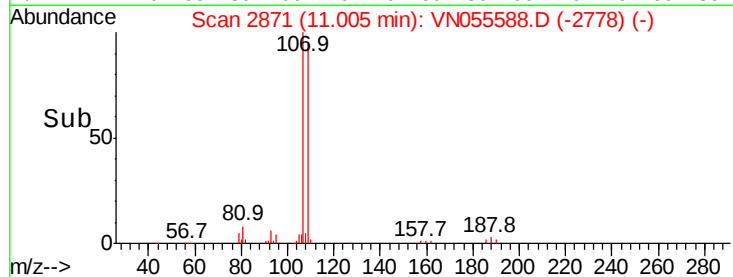
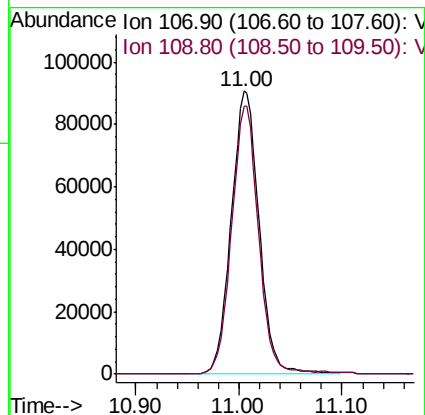
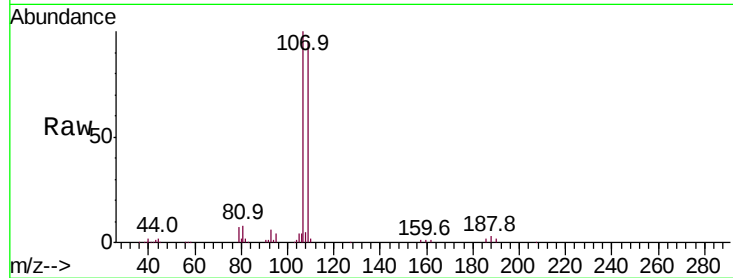
109 91.5 75.8 113.8

Manual Integrations

APPROVED

MMDadoda

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#62

4-Bromofluorobenzene

Concen: 19.277 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

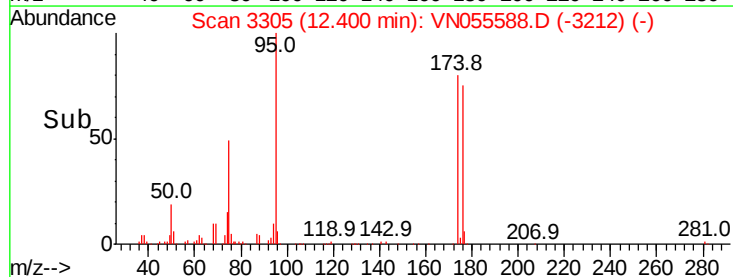
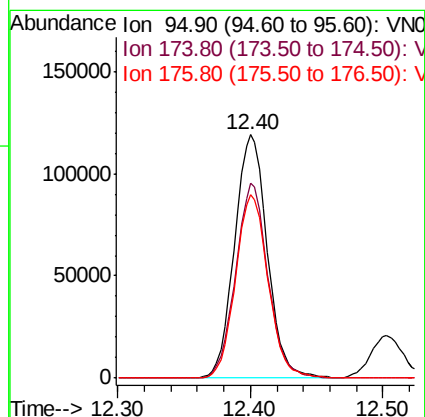
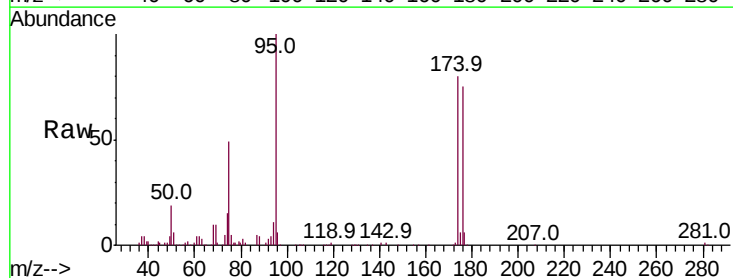
Tgt Ion: 95 Resp: 204278

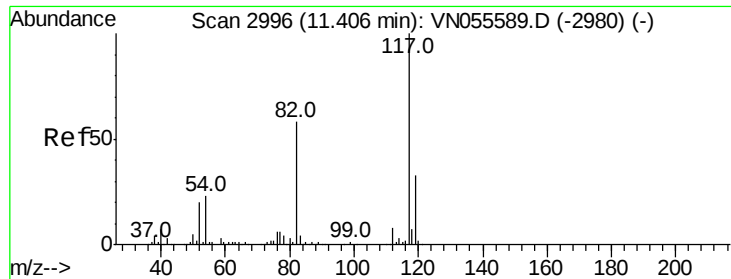
Ion Ratio Lower Upper

95 100

174 78.9 0.0 158.4

176 75.2 0.0 153.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:117 Resp: 1077511

Ion Ratio Lower Upper

117 100

82 57.0 46.7 70.1

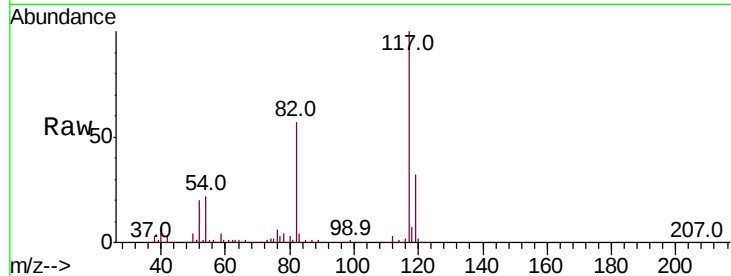
119 31.7 26.0 39.0

Manual Integrations

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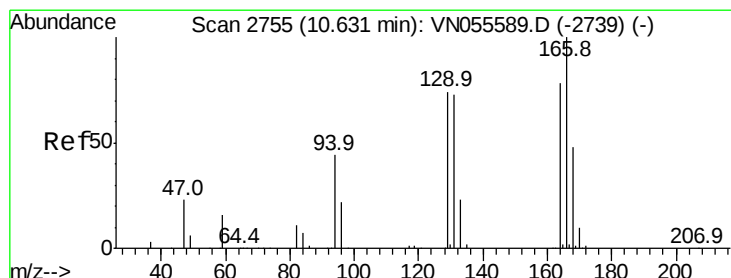
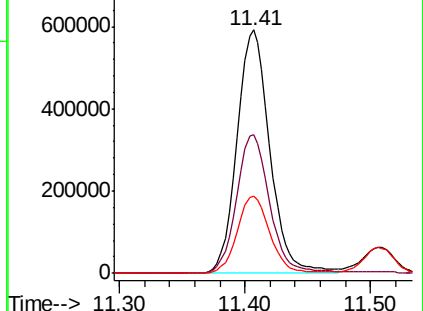
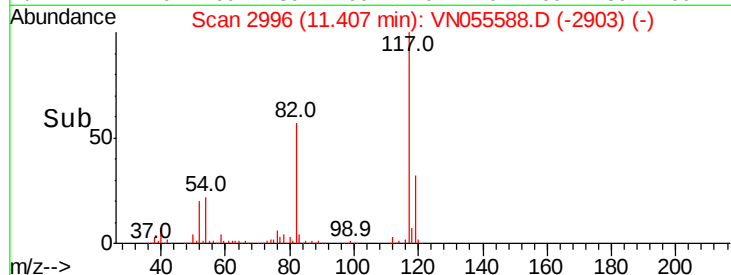
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 20.497 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Tgt Ion:164 Resp: 180578

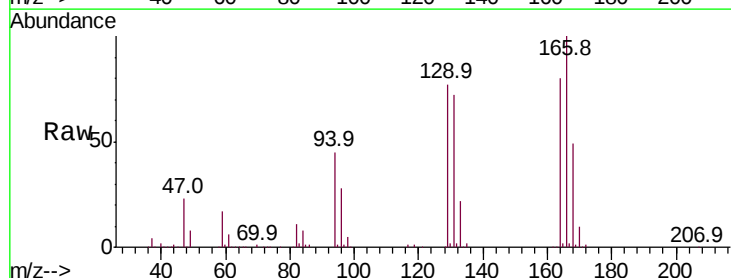
Ion Ratio Lower Upper

164 100

166 124.4 102.1 153.1

129 95.6 75.8 113.8

131 89.8 74.6 111.8

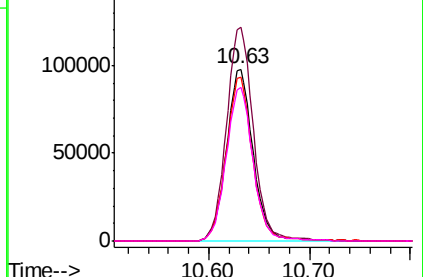
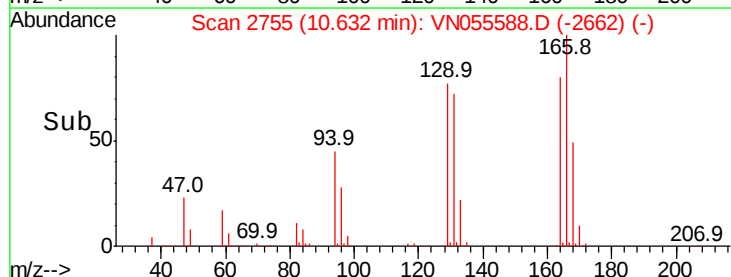


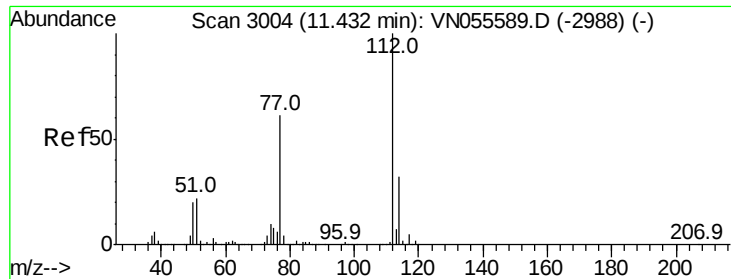
Abundance Ion 163.80 (163.50 to 164.50): V

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





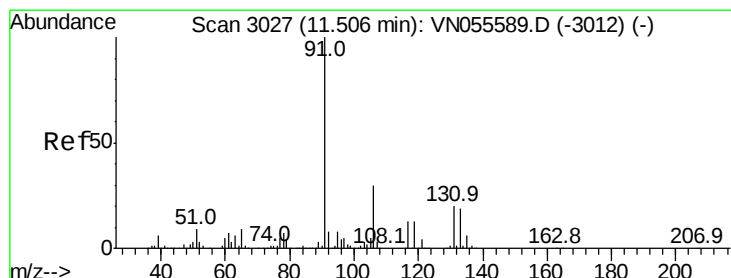
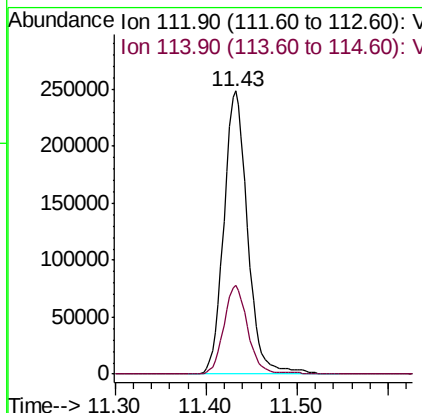
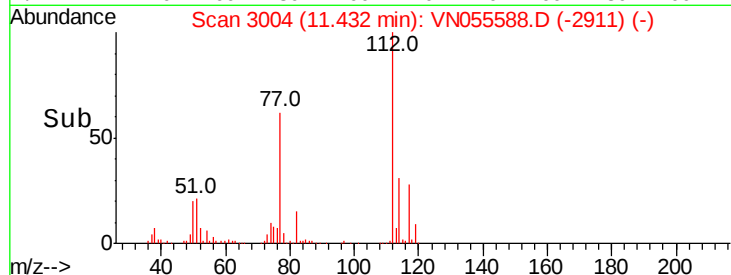
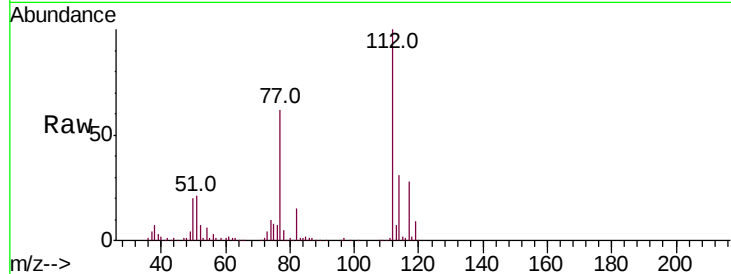
#65
Chlorobenzene
Concen: 20.379 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:112 Resp: 450863
Ion Ratio Lower Upper
112 100
114 31.4 25.4 38.2

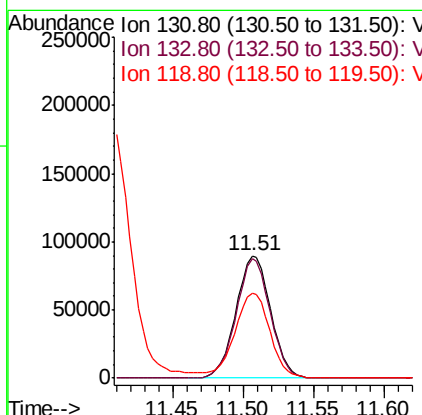
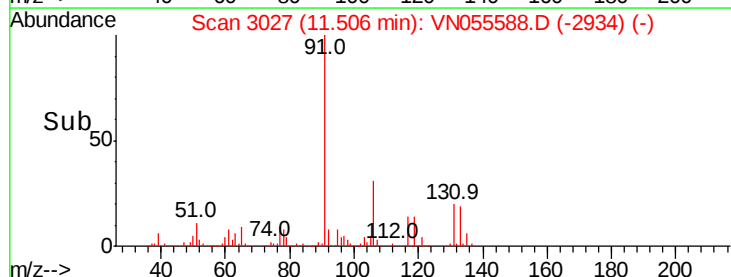
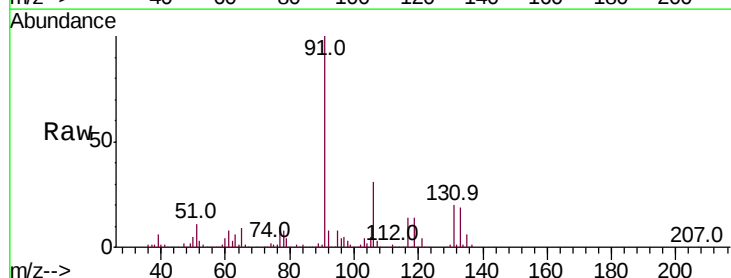
Manual Integrations
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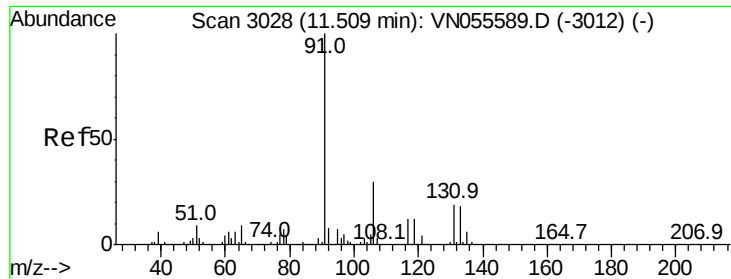
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.326 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion:131 Resp: 155312
Ion Ratio Lower Upper
131 100
133 95.3 47.6 142.9
119 70.6 34.2 102.5





#67

Ethyl Benzene

Concen: 19.649 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 812234

Ion Ratio Lower Upper

91 100

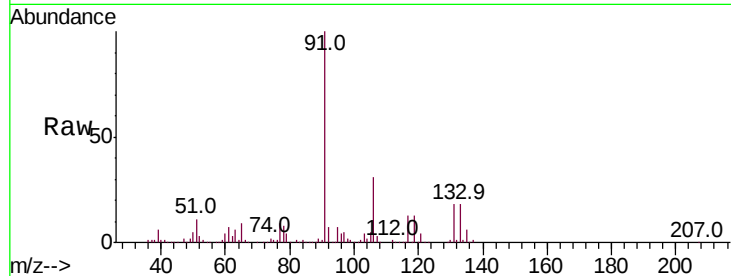
106 30.8 24.1 36.1

Manual Integrations

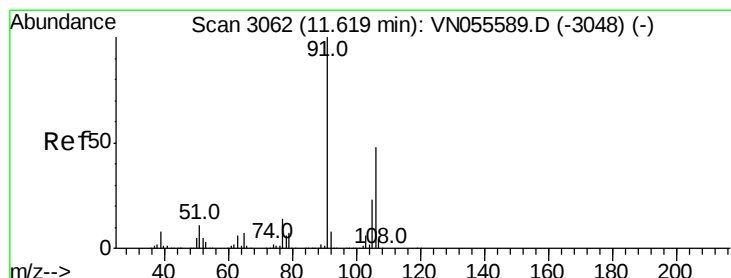
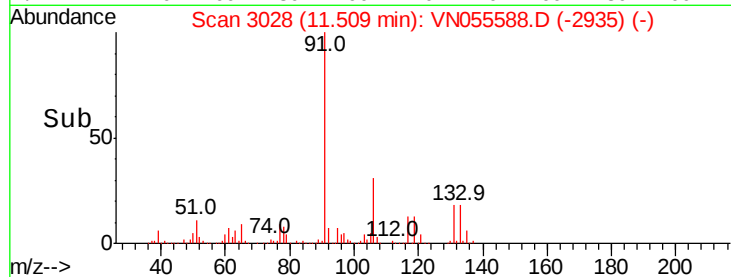
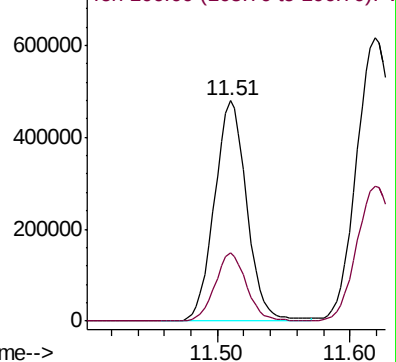
APPROVED

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Abundance Ion 91.00 (90.70 to 91.70): VN055588.D (-3012) (-)



#68

m/p-Xylenes

Concen: 40.036 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN055588.D

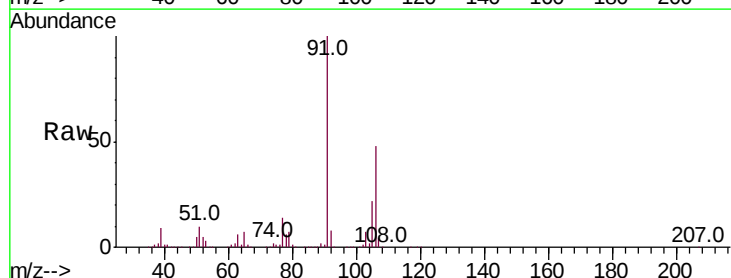
Acq: 14 May 2019 12:22

Tgt Ion: 106 Resp: 595583

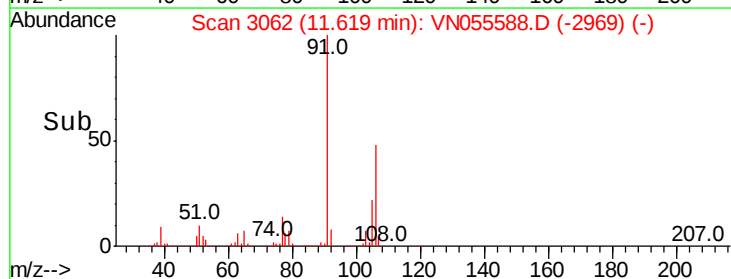
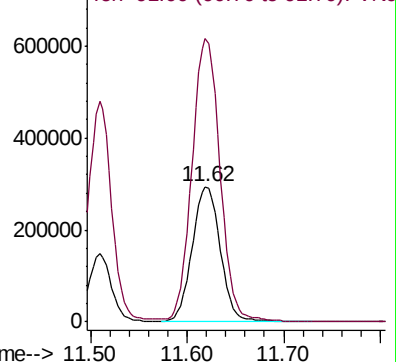
Ion Ratio Lower Upper

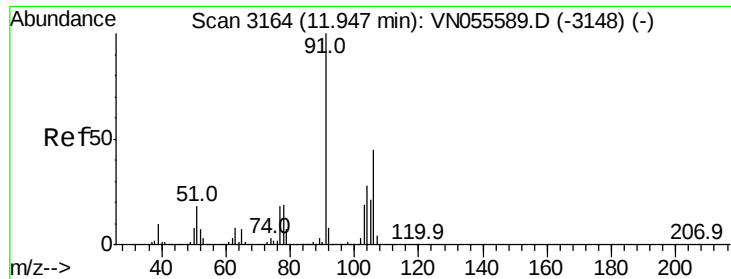
106 100

91 209.4 167.5 251.3



Abundance Ion 106.00 (105.70 to 106.70): VN055588.D (-3048) (-)





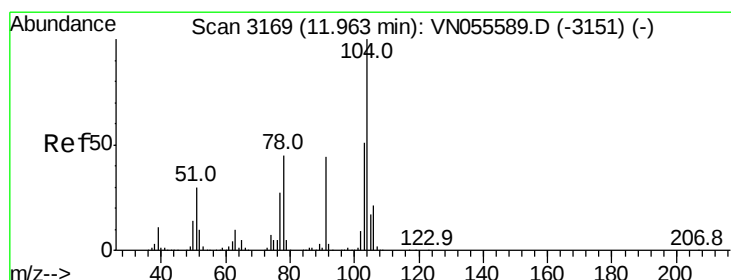
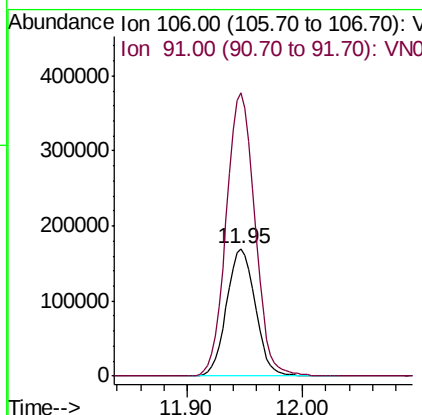
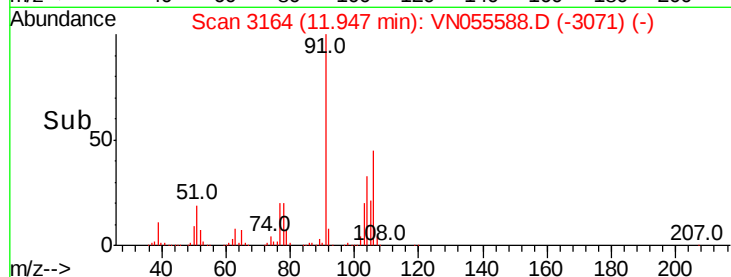
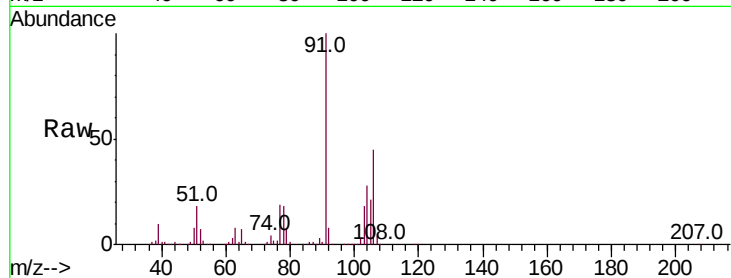
#69
o-Xylene
Concen: 19.993 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
106	100		
91	221.8	110.2	330.6

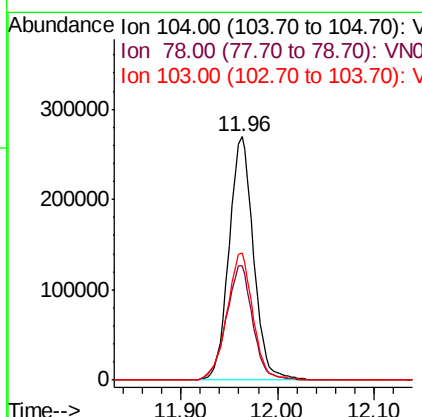
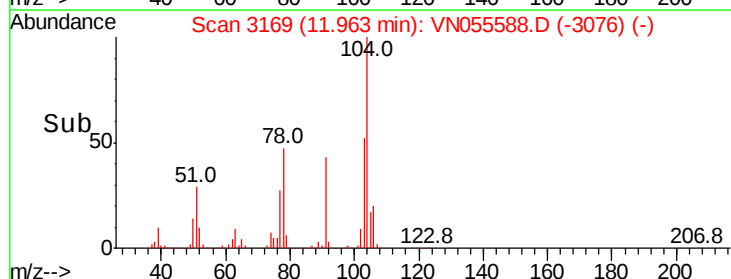
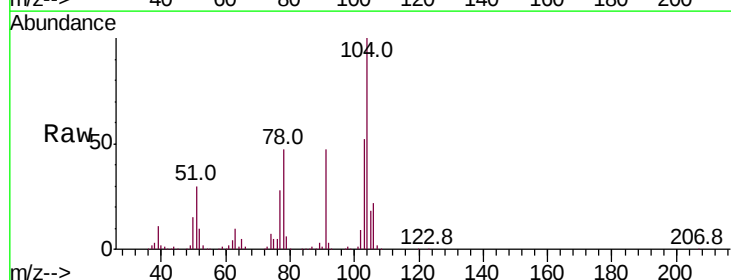
Manual Integrations
APPROVED

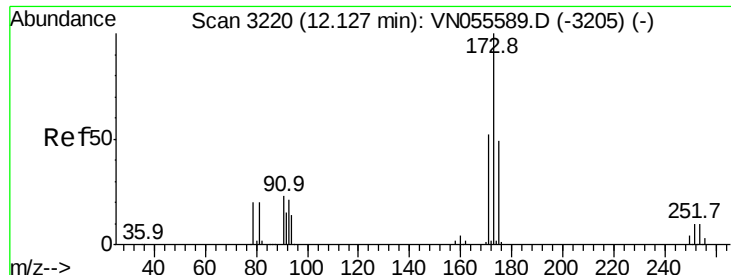
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#70
Styrene
Concen: 20.304 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
104	100		
78	51.0	40.8	61.2
103	55.5	44.6	67.0





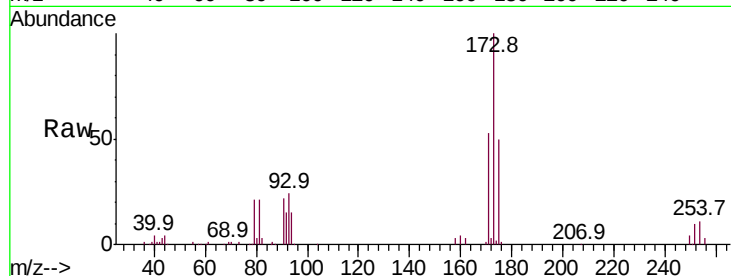
#71
Bromoform
Concen: 19.859 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.4	24.4	73.4
254	0.0	0.1	0.1#

Manual Integrations
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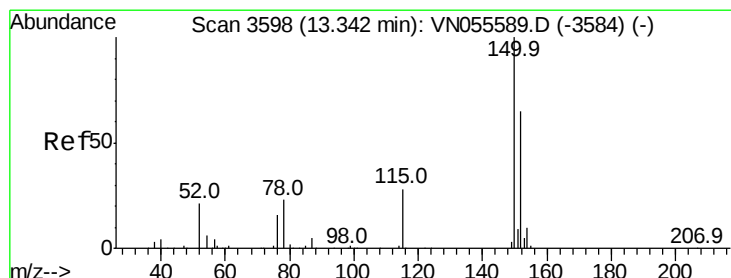
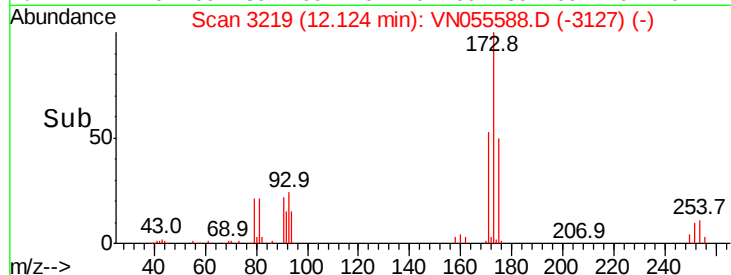
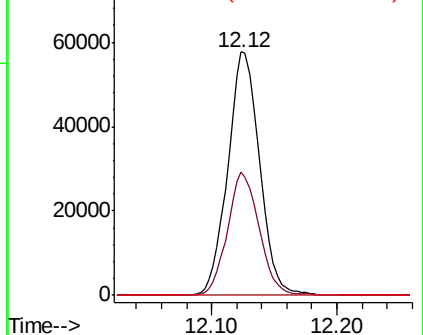


Abundance

Ion 172.70 (172.40 to 173.40): V

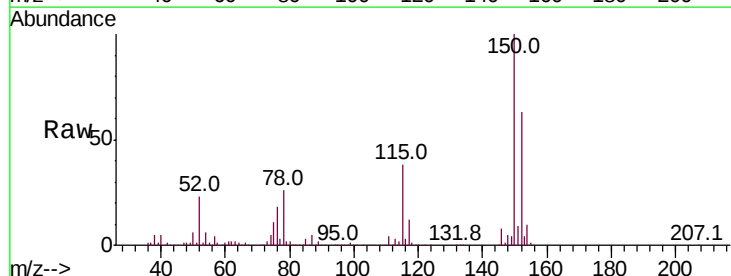
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.5	29.8	89.4
150	165.1	0.0	346.6

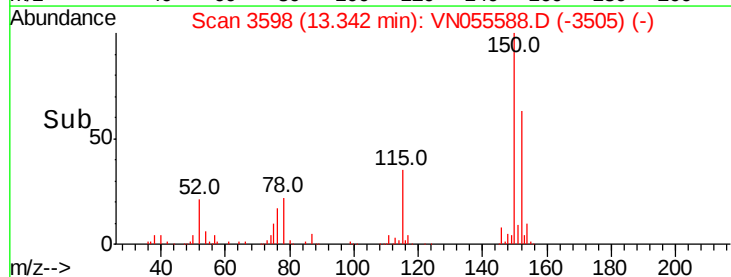
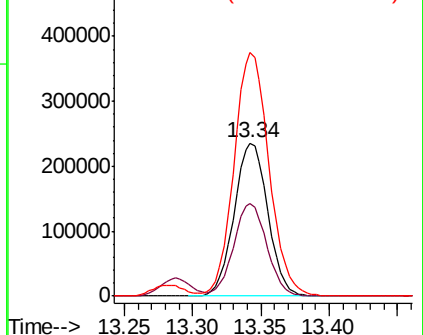


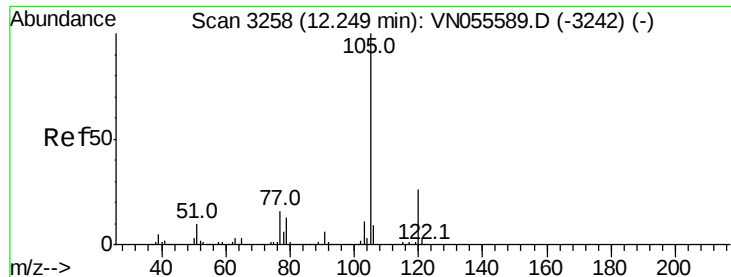
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





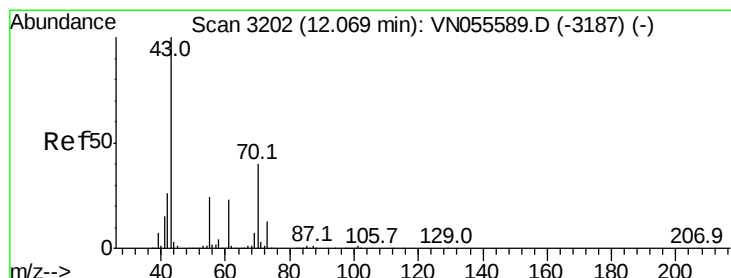
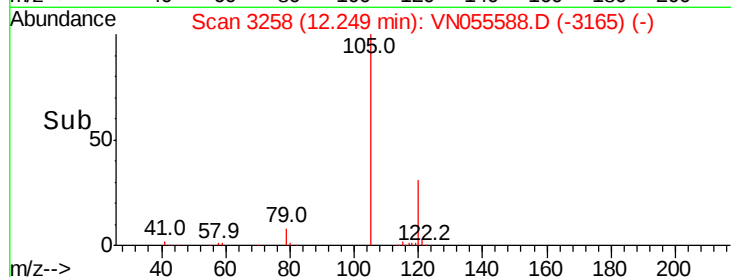
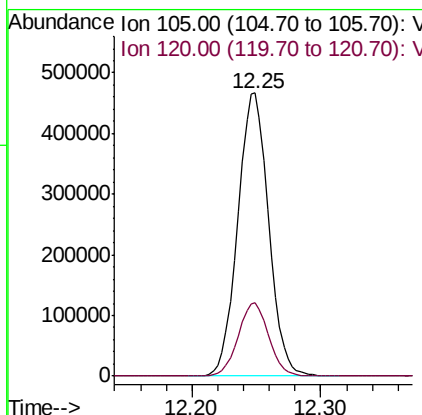
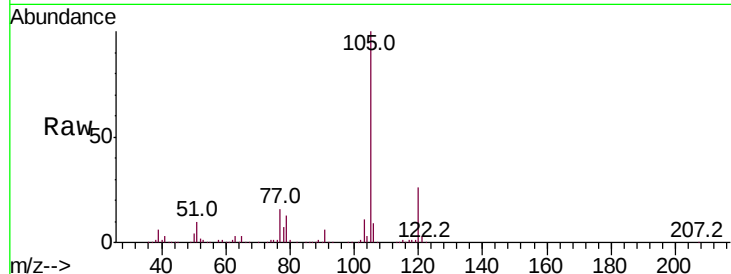
#73
Isopropylbenzene
Concen: 19.678 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampled :
VSTDIC020

Tot Ion:105 Resp: 775844
Ion Ratio Lower Upper
105 100
120 25.6 13.0 39.0

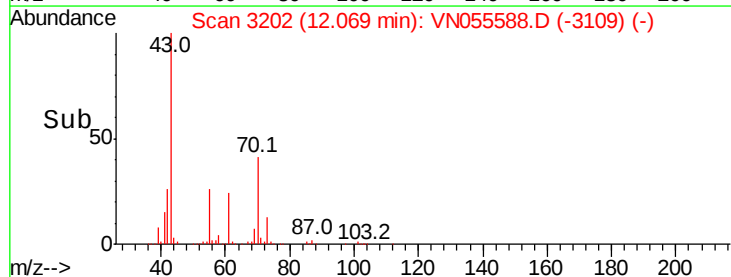
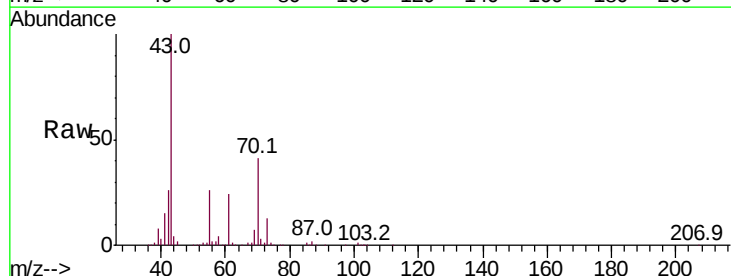
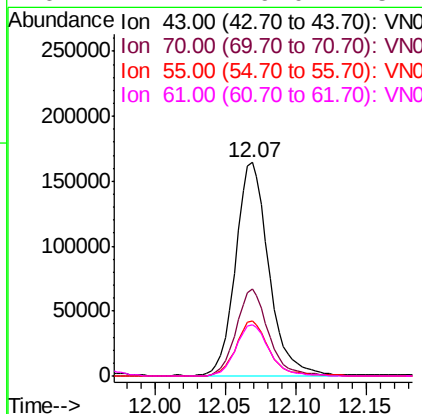
Manual Integrations
APPROVED

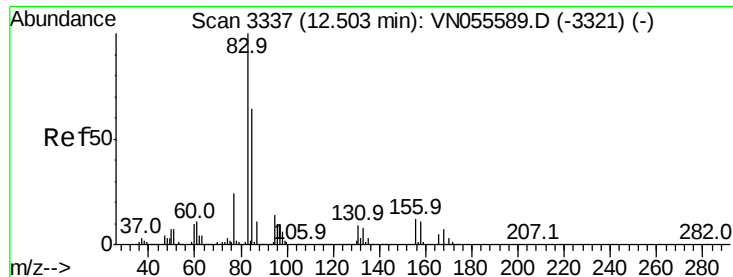
MMDadoda
5/16/2019 1:31:44 PM



#74
N-ethyl acetate
Concen: 18.064 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion: 43 Resp: 270080
Ion Ratio Lower Upper
43 100
70 40.1 31.8 47.6
55 26.0 19.7 29.5
61 24.2 19.0 28.4





#75

1,1,2,2-Tetrachloroethane

Concen: 18.657 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

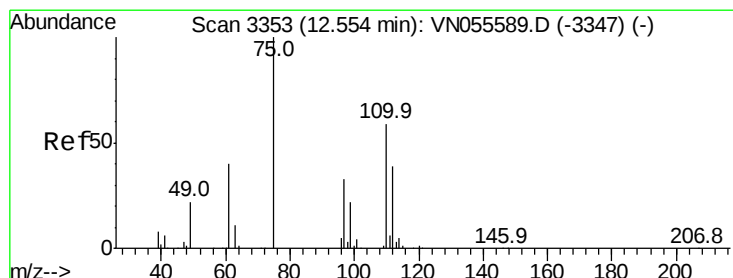
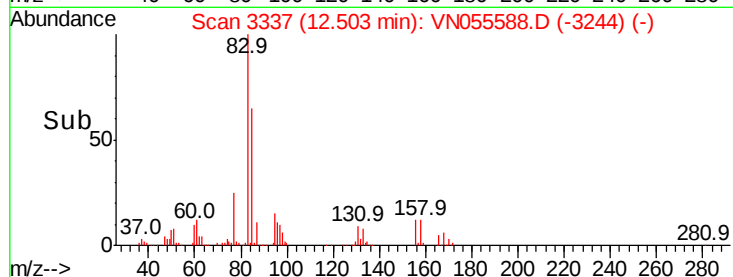
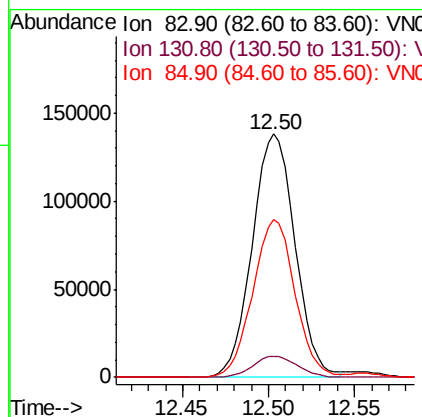
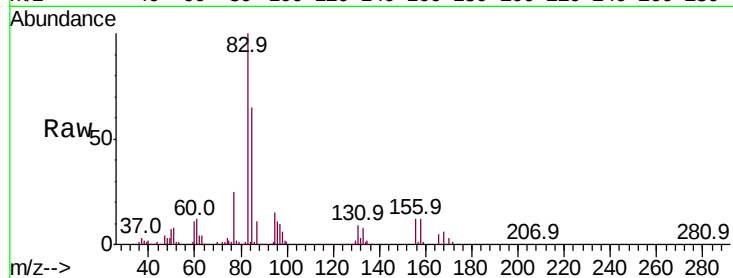
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	238450
Ion Ratio	Lower	Upper	
83	100		
131	9.0	4.6	13.8
85	63.8	32.2	96.6

Manual Integrations
APPROVED

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#76

1,2,3-Trichloropropane

Concen: 17.967 ug/l m

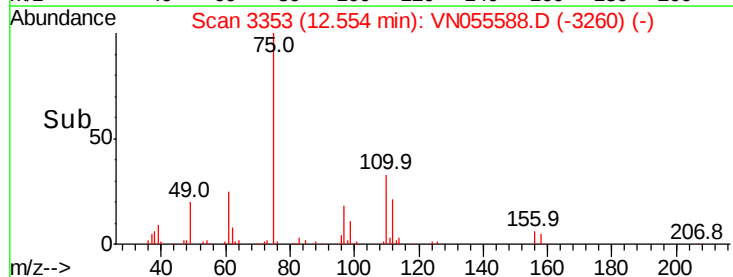
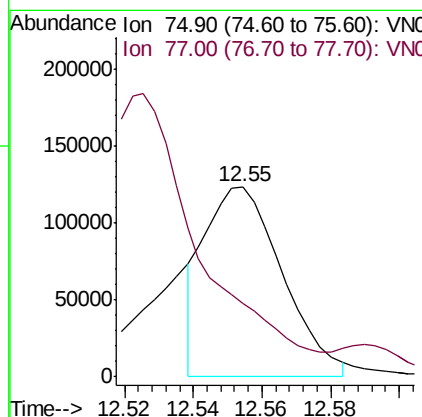
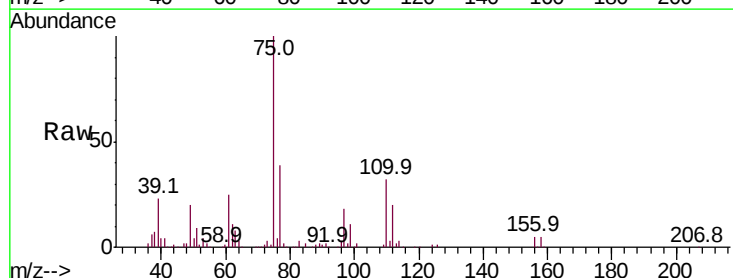
RT: 12.55 min Scan# 3353

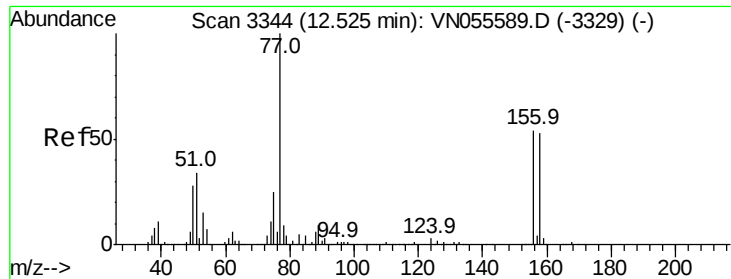
Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Tgt Ion:	75	Resp:	194007
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.864 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampled :

VSTDIC020

Tot Ion:156 Resp: 176545

Ion Ratio Lower Upper

156 100

77 221.7 108.9 326.7

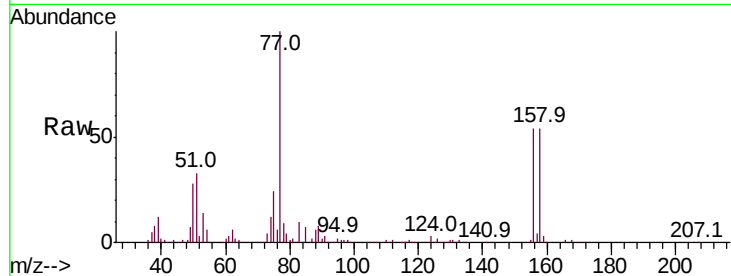
158 98.3 48.1 144.3

Manual Integrations

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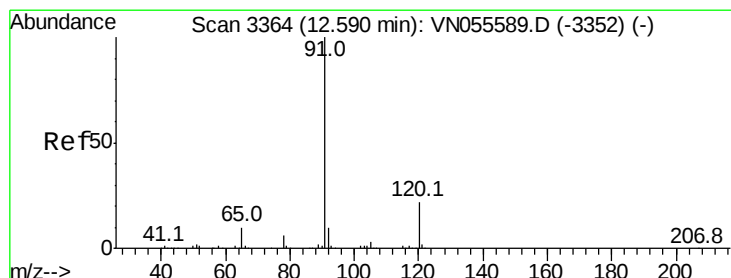
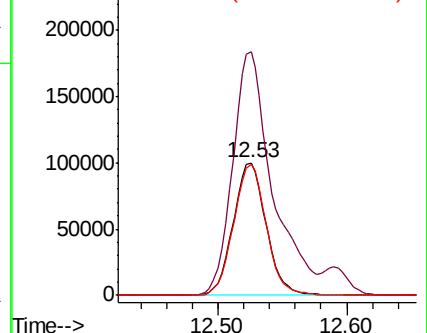
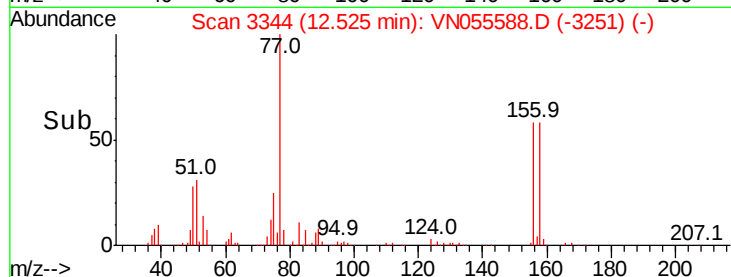
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.675 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055588.D

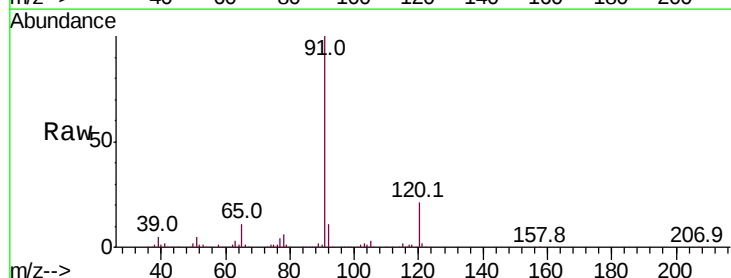
Acq: 14 May 2019 12:22

Tgt Ion: 91 Resp: 846642

Ion Ratio Lower Upper

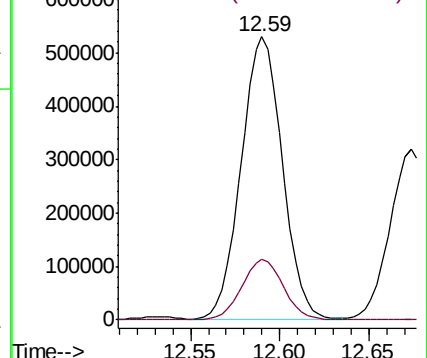
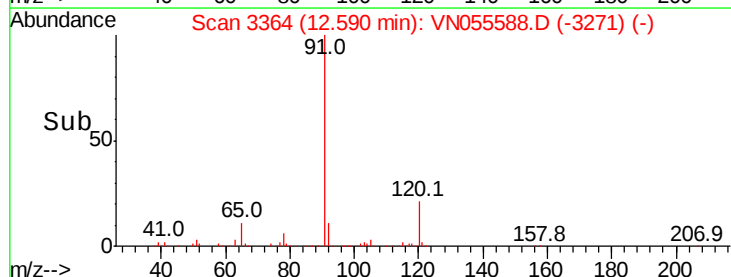
91 100

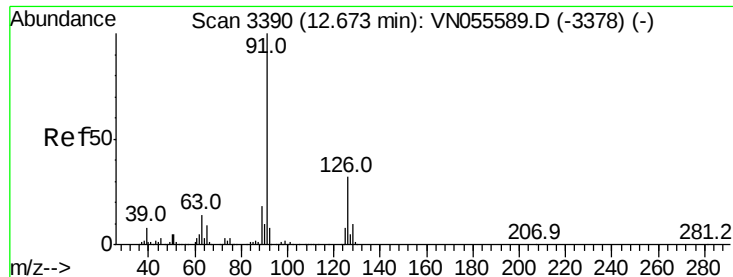
120 21.8 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.475 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 521505

Ion Ratio Lower Upper

91 100

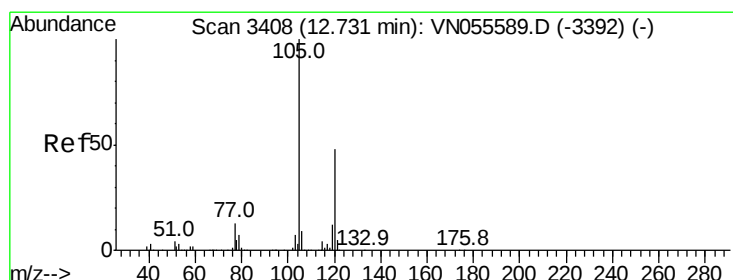
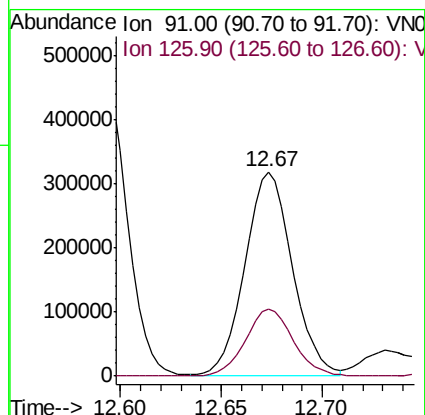
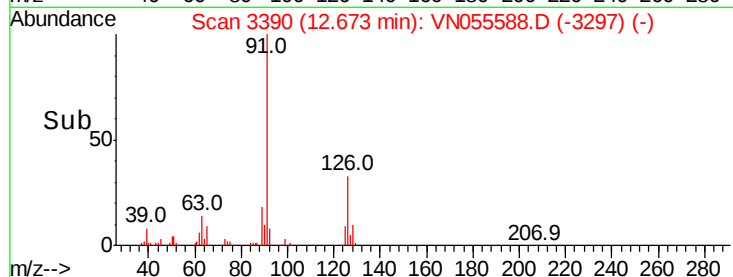
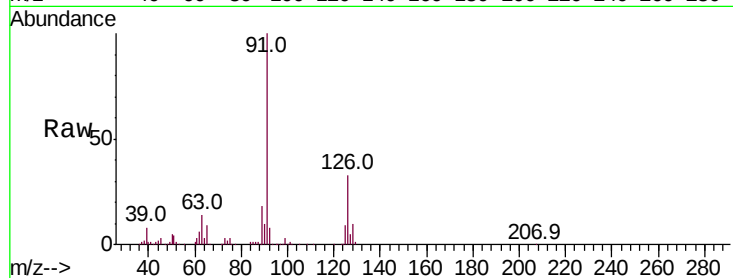
126 33.5 16.6 49.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.634 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055588.D

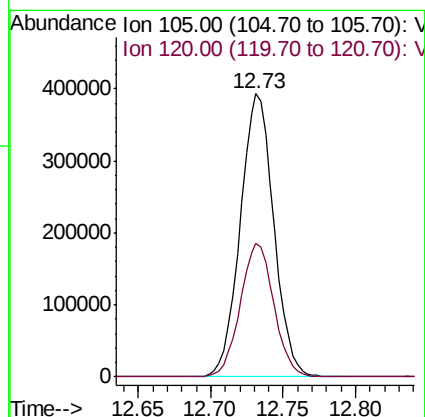
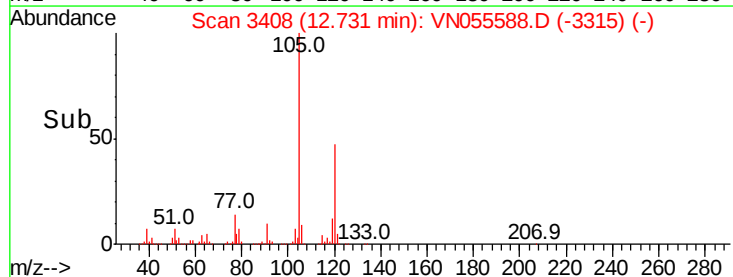
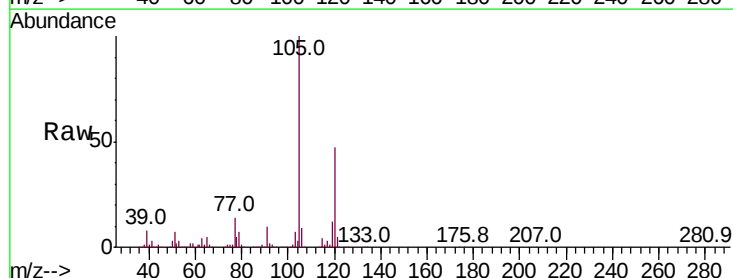
Acq: 14 May 2019 12:22

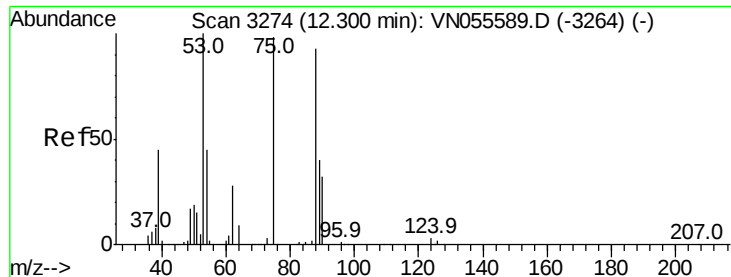
Tgt Ion: 105 Resp: 629071

Ion Ratio Lower Upper

105 100

120 47.5 23.8 71.2





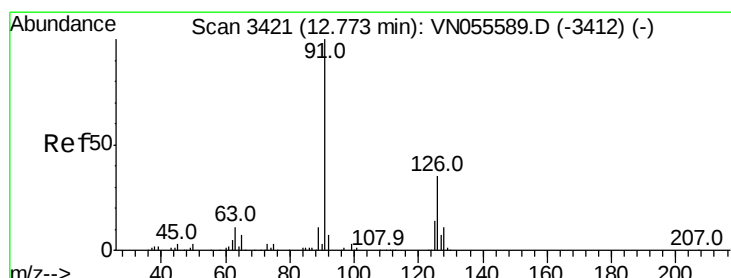
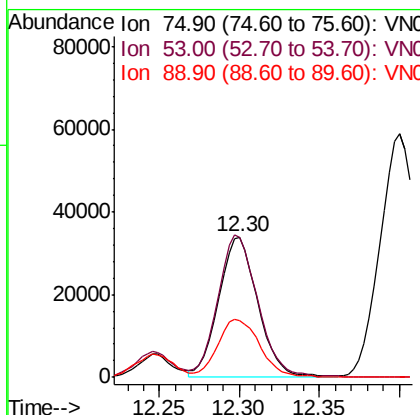
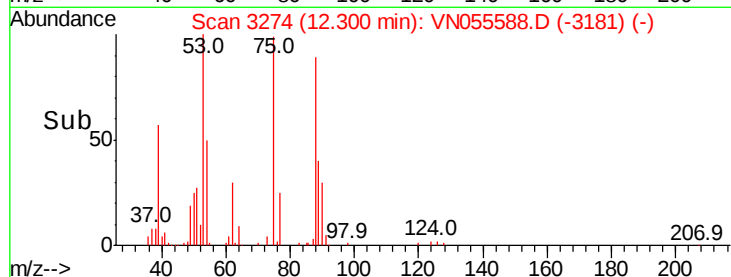
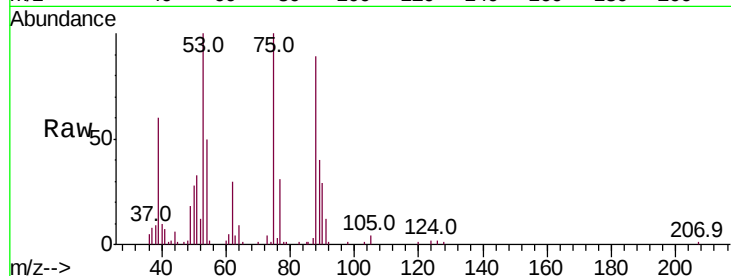
#81
trans-1,4-Dichloro-2-butene
Concen: 19.672 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.4	83.9	125.9
89	44.2	34.7	52.1

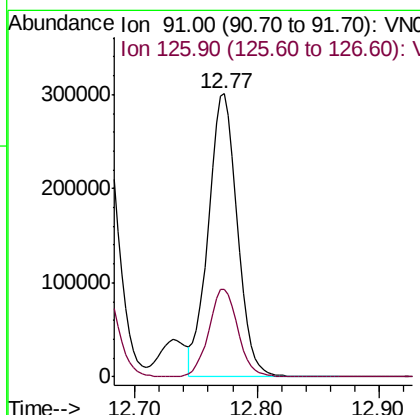
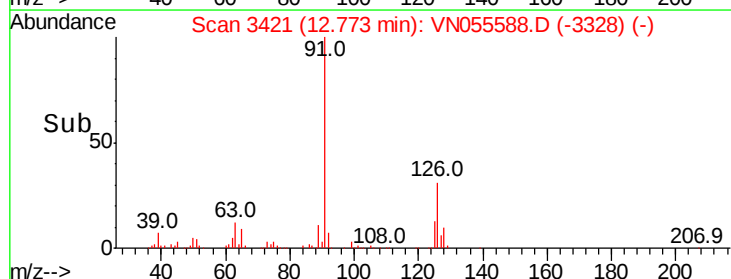
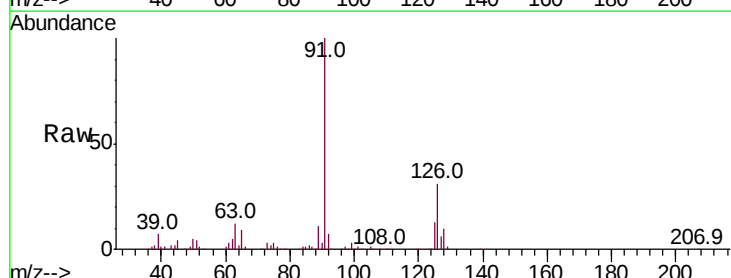
Manual Integrations
APPROVED

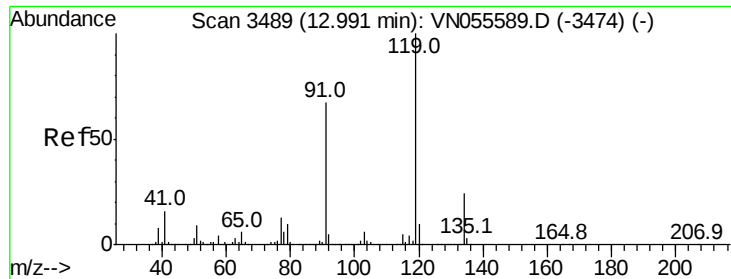
MMDadoda
5/16/2019 1:31:44 PM



#82
4-Chlorotoluene
Concen: 19.738 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	16.2	48.6





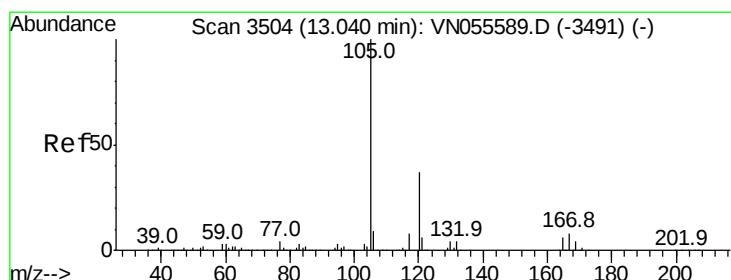
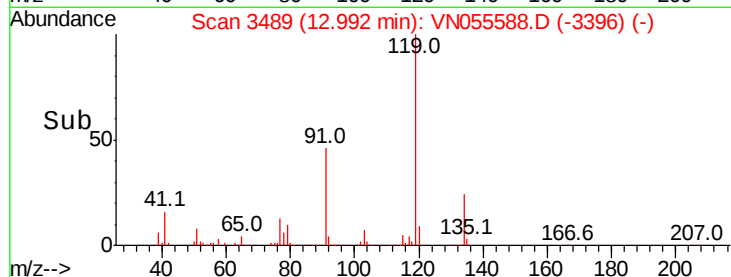
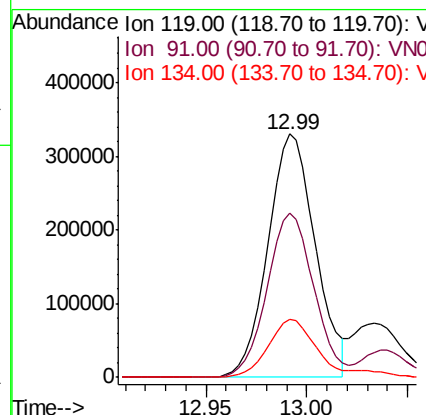
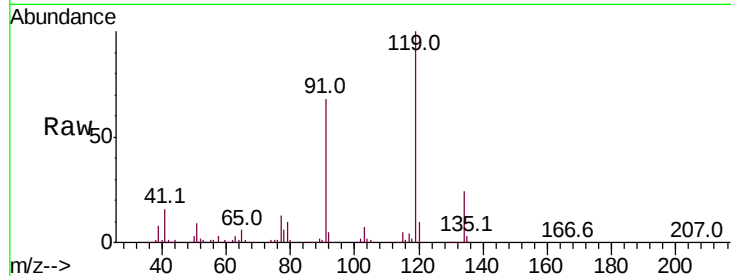
#83
tert-Butylbenzene
Concen: 19.617 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	538130		
91	66.7	33.5	100.4	
134	23.5	12.7	38.1	

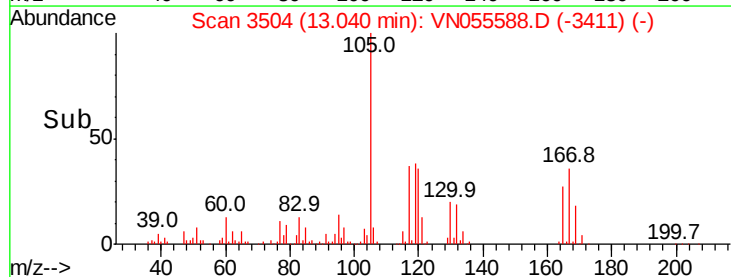
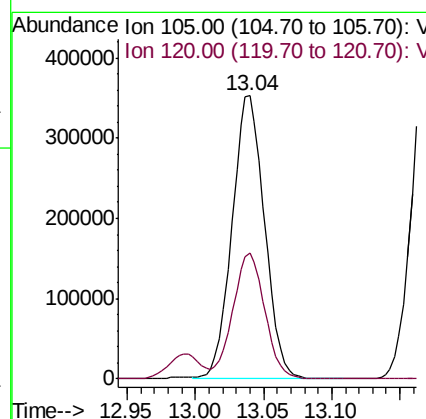
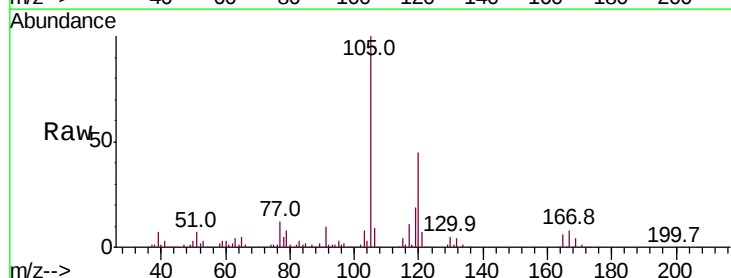
Manual Integrations
APPROVED

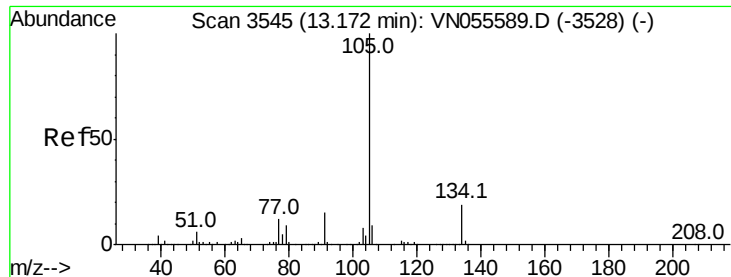
MMDadoda
5/16/2019 1:31:44 PM



#84
1,2,4-Trimethylbenzene
Concen: 19.780 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	581034		
120	43.7	22.2	66.6	





#85

sec-Butylbenzene

Concen: 19.186 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 698533

Ion Ratio Lower Upper

105 100

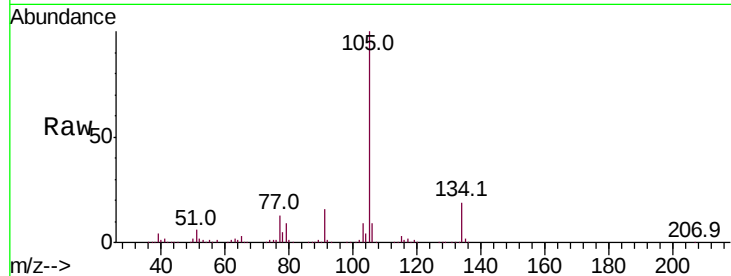
134 19.4 9.7 29.1

Manual Integrations

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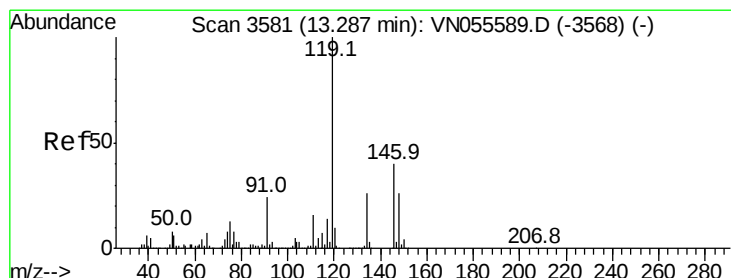
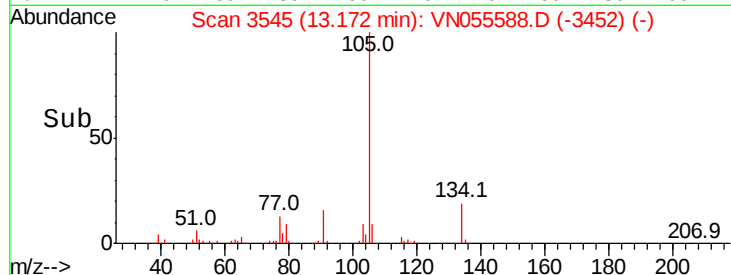
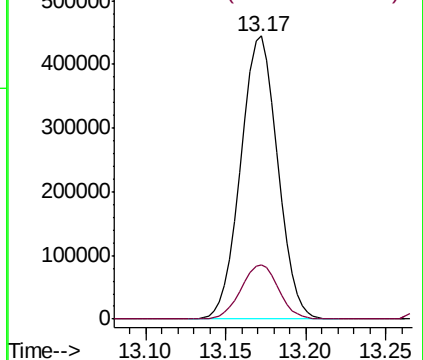
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.487 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

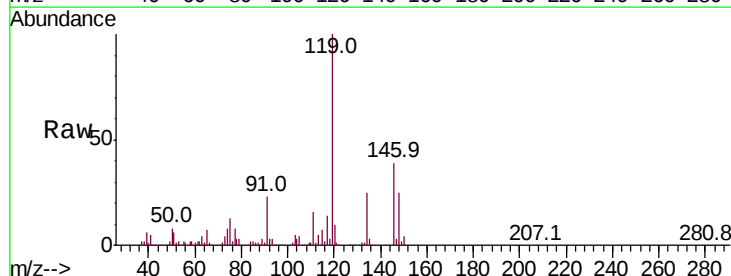
Tgt Ion:119 Resp: 577325

Ion Ratio Lower Upper

119 100

134 25.9 13.0 39.0

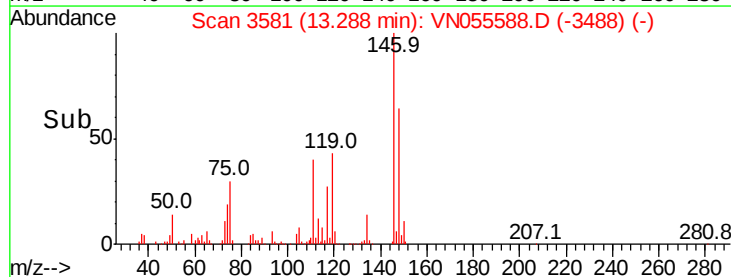
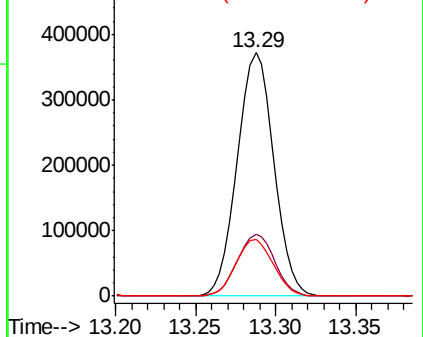
91 23.7 11.9 35.5

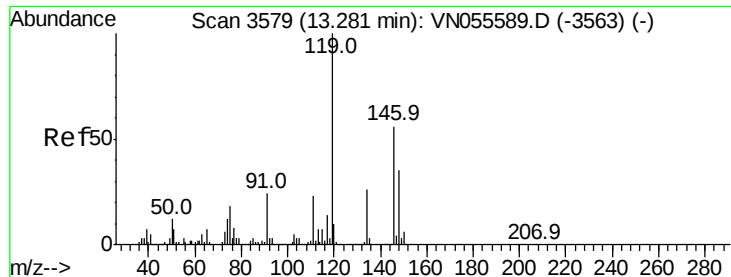


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





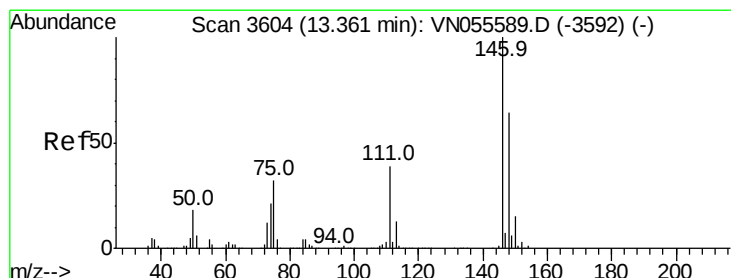
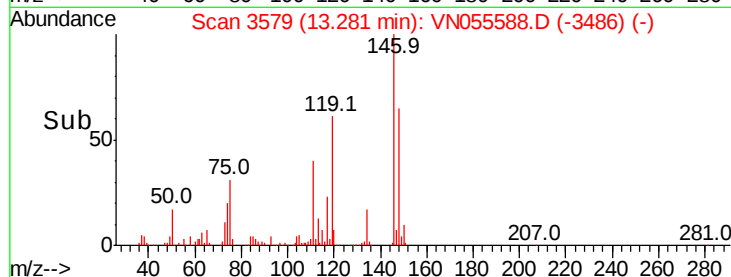
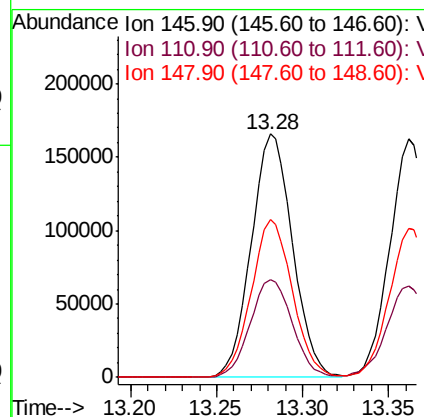
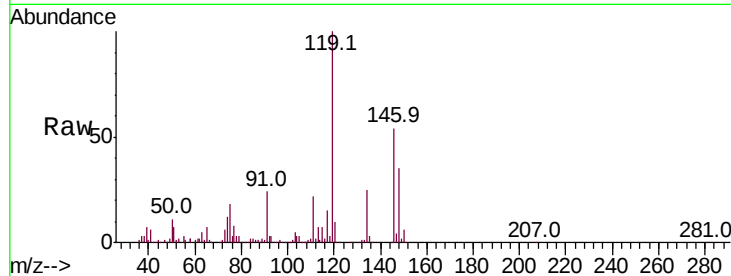
#87
 1,3-Dichlorobenzene
 Concen: 20.221 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	276680		
111	40.9	20.5	61.5	
148	64.5	32.3	96.9	

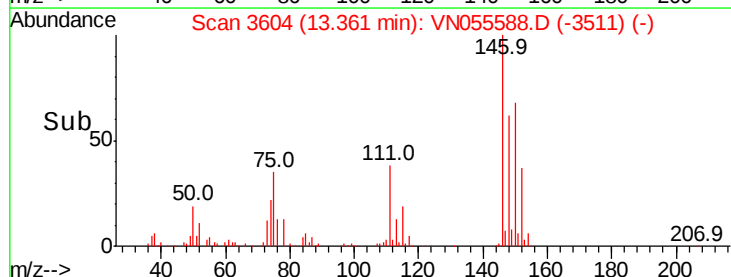
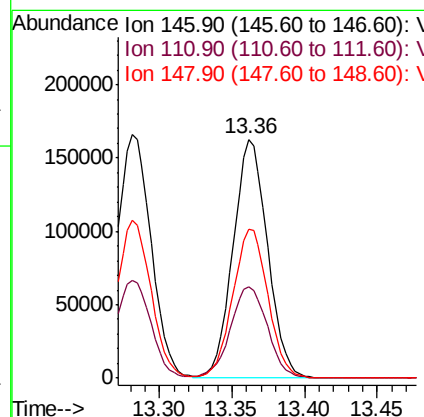
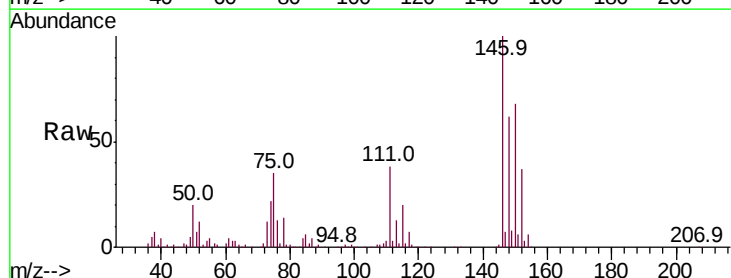
Manual Integrations
 APPROVED

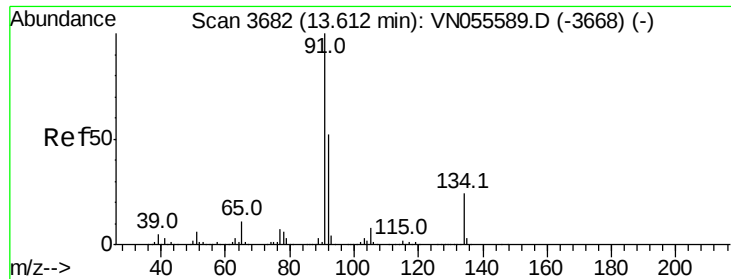
MMDadoda
 5/16/2019 1:31:44 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.918 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	269283		
111	40.6	19.7	59.0	
148	63.6	31.8	95.4	





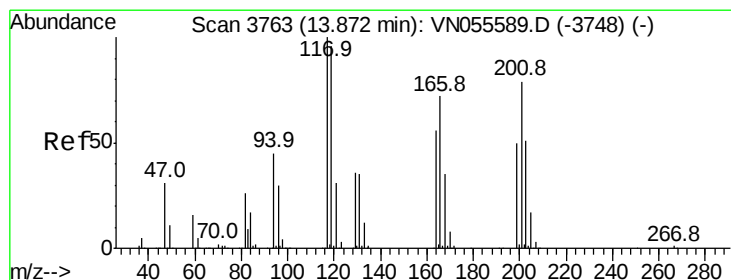
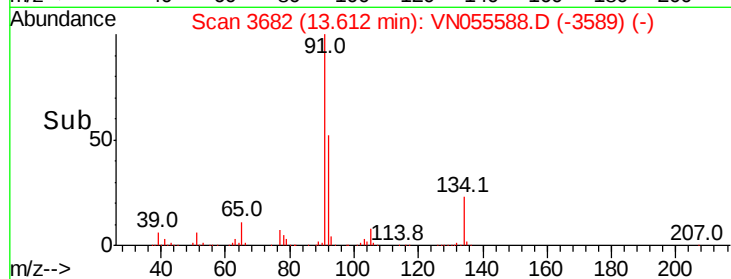
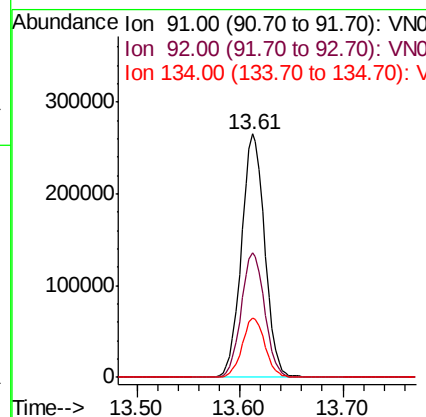
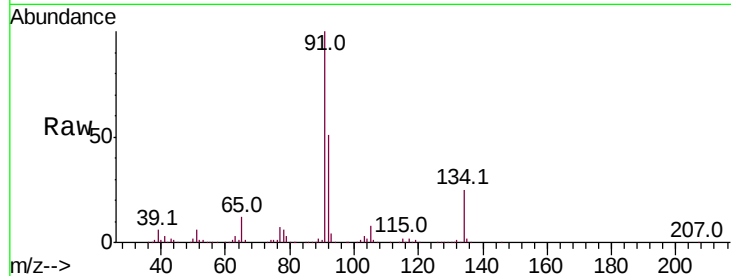
#89
n-Butylbenzene
Concen: 18.318 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	25.9	77.8
134	23.8	12.2	36.4

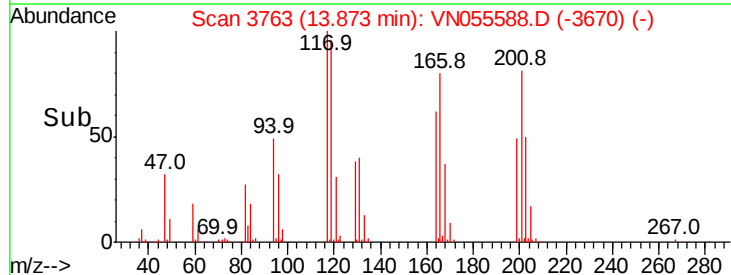
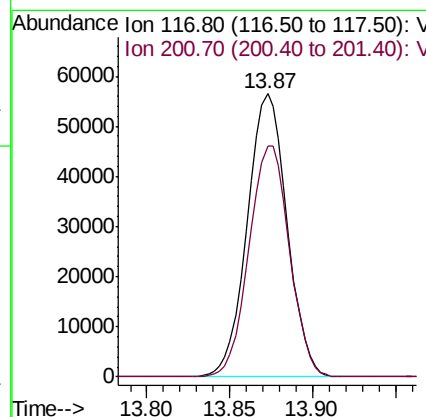
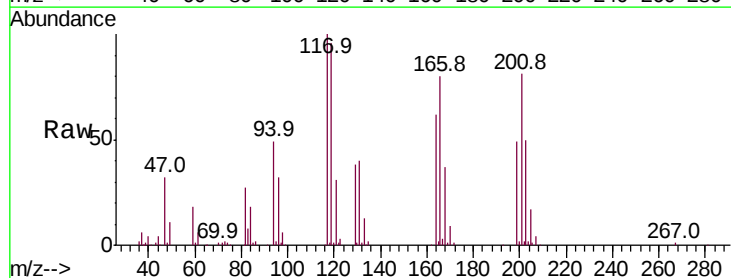
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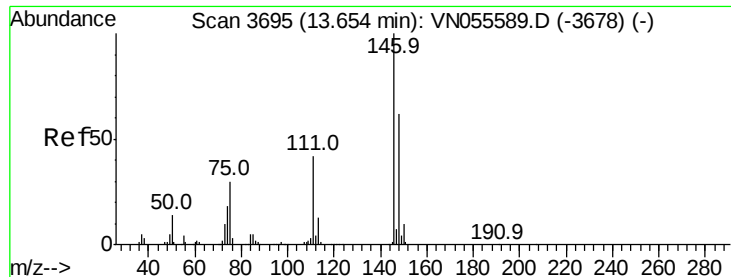
MMDadoda
5/16/2019 1:31:44 PM



#90
Hexachloroethane
Concen: 19.479 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.8	40.6	121.8





#91

1,2-Dichlorobenzene

Concen: 20.154 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Instrument :

MSVOA_N

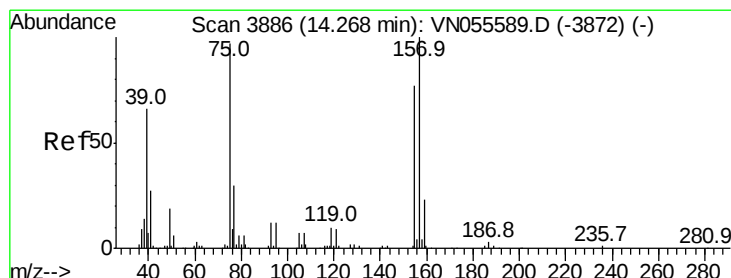
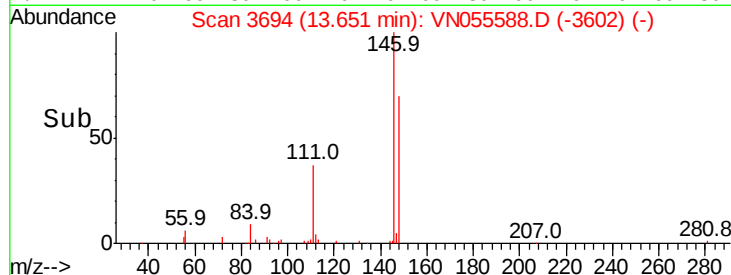
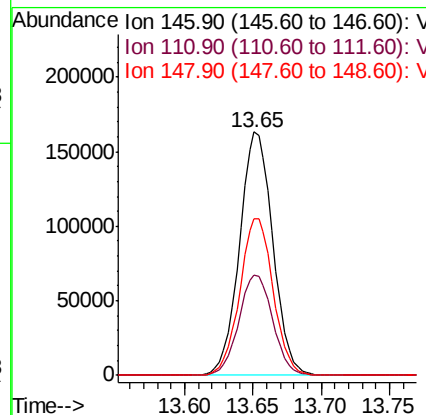
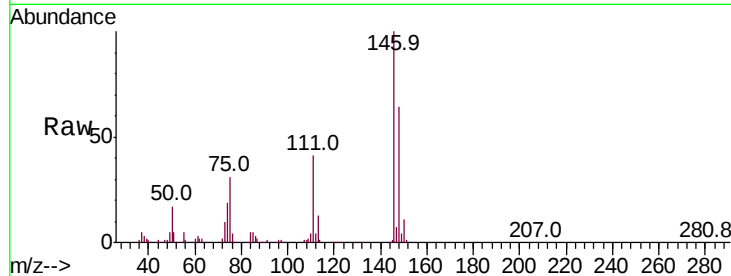
ClientSampled :

VSTDIC020

Tot Ion:	146	Resp:	275959
Ion Ratio	Lower	Upper	
146	100		
111	42.1	21.0	63.0
148	64.6	31.3	93.9

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#92

1,2-Dibromo-3-Chloropropane

Concen: 17.141 ug/l

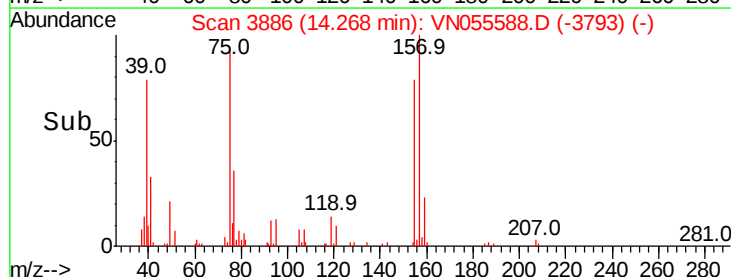
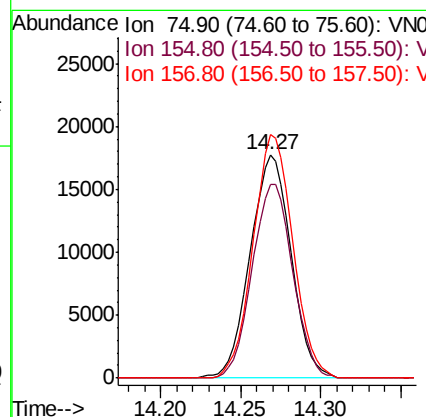
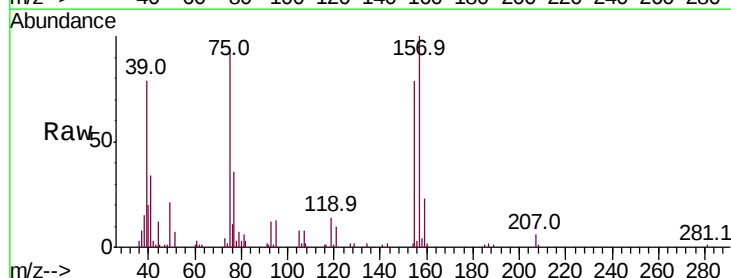
RT: 14.27 min Scan# 3886

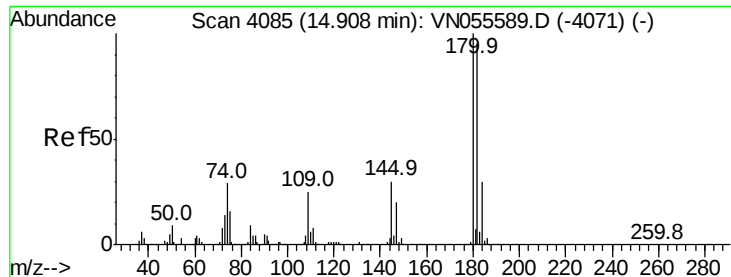
Delta R.T. 0.00 min

Lab File: VN055588.D

Acq: 14 May 2019 12:22

Tgt Ion:	75	Resp:	31075
Ion Ratio	Lower	Upper	
75	100		
155	86.1	40.4	121.1
157	106.1	52.1	156.4





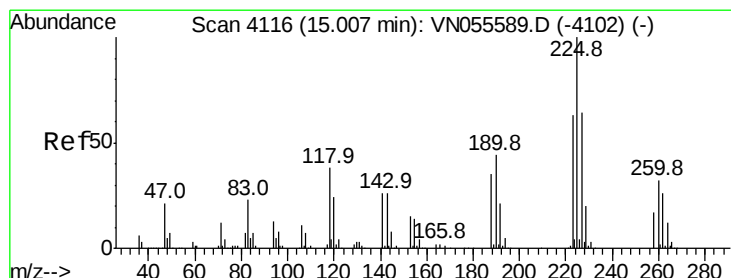
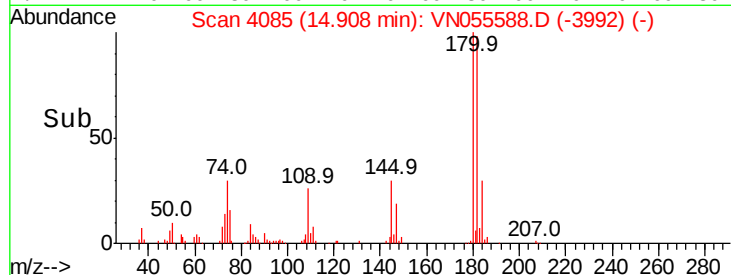
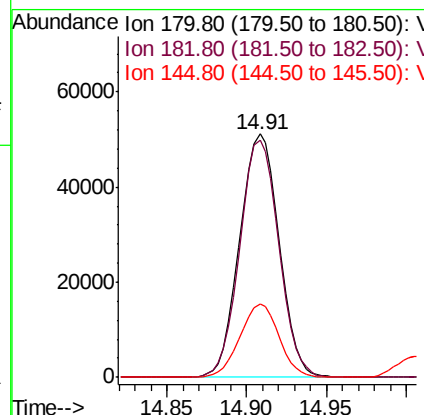
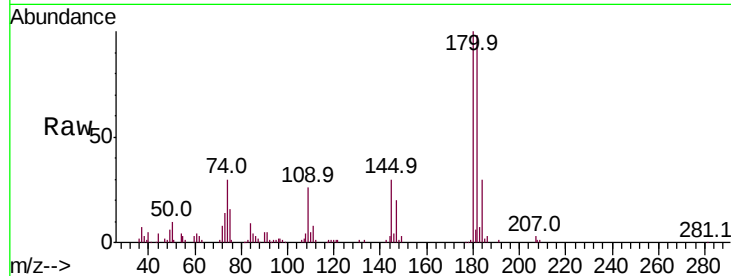
#93
 1,2,4-Trichlorobenzene
 Concen: 18.485 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	96.6	47.4	142.3
145	29.8	14.9	44.7

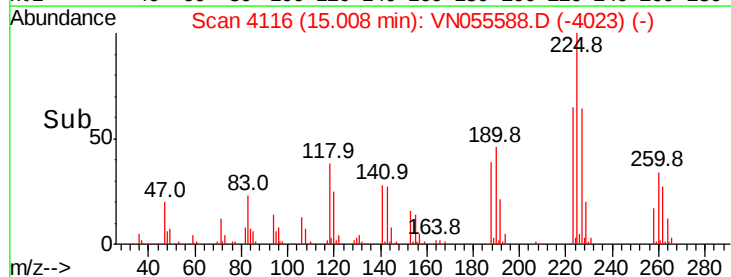
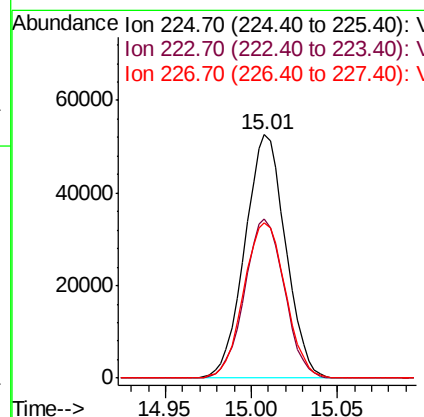
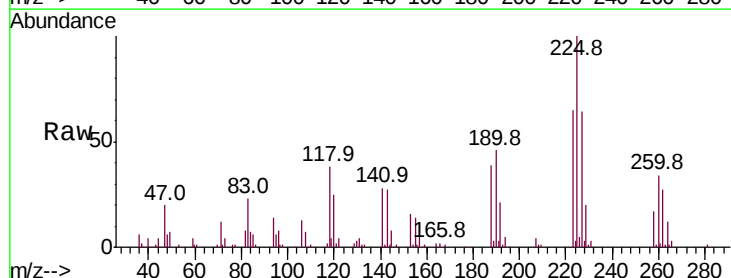
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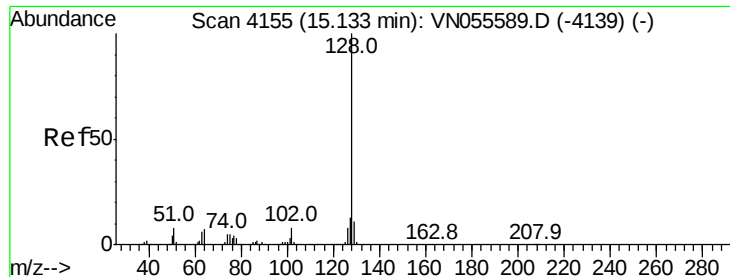
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 5/16/2019 1:31:44 PM



#94
 Hexachlorobutadiene
 Concen: 17.639 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055588.D
 Acq: 14 May 2019 12:22

Tgt Ion	Ratio	Resp Lower	Resp Upper
225	100		
223	63.9	31.6	95.0
227	65.3	32.4	97.0





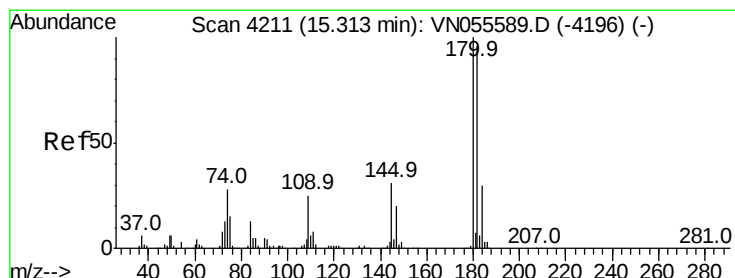
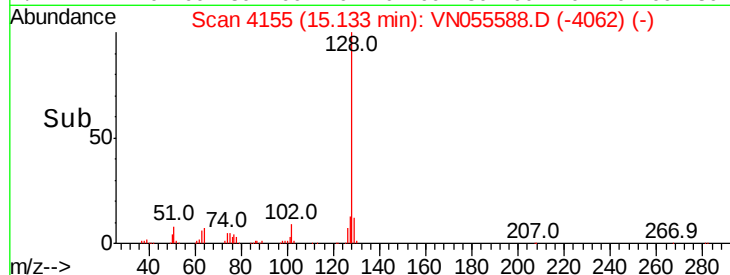
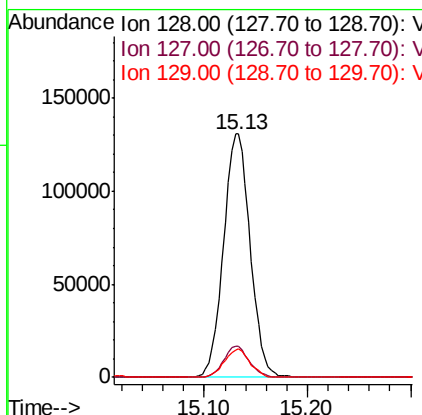
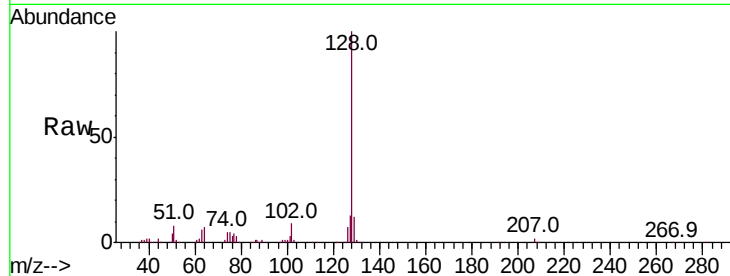
#95
Naphthalene
Concen: 17.353 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tot Ion:	128	Resp:	234814
Ion Ratio	Lower	Upper	
128	100		
127	12.3	10.4	15.6
129	11.0	8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 17.824 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055588.D
Acq: 14 May 2019 12:22

Tgt Ion:	180	Resp:	96771
Ion Ratio	Lower	Upper	
180	100		
182	97.7	47.9	143.6
145	31.7	15.6	46.7

