

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121718\
 Data File : VN052915.D
 Acq On : 17 Dec 2018 9:35
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/18/2018 1:32:59 PM

Quant Time: Dec 18 04:53:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1166985	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1739843	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1595359	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	746351	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	576726	46.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.96%	
35) Dibromofluoromethane	7.59	113	392593	40.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.84%	
50) Toluene-d8	10.09	98	2110136	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
62) 4-Bromofluorobenzene	12.40	95	746806	52.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	594506	49.489	ug/l	100
3) Chloromethane	2.06	50	705714	48.947	ug/l	99
4) Vinyl Chloride	2.19	62	707063	49.019	ug/l	99
5) Bromomethane	2.57	94	431228	48.470	ug/l	100
6) Chloroethane	2.71	64	423153	49.631	ug/l	99
7) Trichlorofluoromethane	3.02	101	884124	49.439	ug/l	99
8) Diethyl Ether	3.41	74	326686	50.079	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	570479	51.472	ug/l	99
10) Methyl Iodide	3.96	142	780131	50.261	ug/l	100
11) Tert butyl alcohol	4.77	59	157597	227.306	ug/l	98
12) 1,1-Dichloroethene	3.74	96	523468	48.789	ug/l	98
13) Acrolein	3.61	56	83786	128.354	ug/l	97
14) Allyl chloride	4.33	41	858932	49.013	ug/l	98
15) Acrylonitrile	4.98	53	949751	244.176	ug/l	99
16) Acetone	3.81	43	474248	170.174	ug/l	100
17) Carbon Disulfide	4.06	76	1658747	50.326	ug/l	99
18) Methyl Acetate	4.32	43	496690	48.563	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	1415856	48.609	ug/l	100
20) Methylene Chloride	4.55	84	602961	48.078	ug/l	100
21) trans-1,2-Dichloroethene	5.04	96	560977	48.260	ug/l	99
22) Diisopropyl ether	5.95	45	1865313	49.893	ug/l	97
23) Vinyl Acetate	5.89	43	5105020	229.478	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1057242	49.038	ug/l	100
25) 2-Butanone	6.83	43	898058	207.683	ug/l	100
26) 2,2-Dichloropropane	6.82	77	830009	52.278	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	646590	49.011	ug/l	98
28) Bromochloromethane	7.19	49	485802	50.180	ug/l	100
29) Tetrahydrofuran	7.21	42	706763	239.414	ug/l	100
30) Chloroform	7.37	83	1037903	49.367	ug/l	99
31) Cyclohexane	7.65	56	1035909	49.257	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	880821	50.074	ug/l	99
36) 1,1-Dichloropropene	7.79	75	835468	52.146	ug/l	100
37) Ethyl Acetate	6.92	43	466202	48.438	ug/l	99
38) Carbon Tetrachloride	7.77	117	791570	53.676	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1055943	53.707	ug/l	99
40) Benzene	8.04	78	2455319	51.060	ug/l	99
41) Methacrylonitrile	7.17	41	284505	53.349	ug/l	94
42) 1,2-Dichloroethane	8.12	62	732549	50.602	ug/l	100
43) Isopropyl Acetate	8.16	43	851409	43.145	ug/l	97
44) Trichloroethene	8.83	130	727329	55.997	ug/l	99
45) 1,2-Dichloropropane	9.12	63	649950	51.603	ug/l	100
46) Dibromomethane	9.21	93	369344	50.564	ug/l	100
47) Bromodichloromethane	9.40	83	818557	54.040	ug/l	99
48) Methyl methacrylate	9.20	41	442949	51.184	ug/l	99
49) 1,4-Dioxane	9.20	88	100895	1027.130	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	2270980	250.975	ug/l	100
52) Toluene	10.16	92	1542985	52.979	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	855577	56.131	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	985078	54.235	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	532587	51.227	ug/l	99
56) Ethyl methacrylate	10.43	69	685338	51.366	ug/l	100
57) 1,3-Dichloropropane	10.71	76	926145	51.948	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1843024	247.561	ug/l	100
59) 2-Hexanone	10.75	43	1458970	235.273	ug/l	100
60) Dibromochloromethane	10.90	129	622463	55.398	ug/l	100
61) 1,2-Dibromoethane	11.00	107	537362	52.290	ug/l	100
64) Tetrachloroethene	10.63	164	916739	66.858	ug/l	99
65) Chlorobenzene	11.43	112	1706925	51.572	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	605447	52.597	ug/l	100
67) Ethyl Benzene	11.51	91	2993253	52.662	ug/l	100
68) m/p-Xylenes	11.62	106	2268238	106.277	ug/l	100
69) o-Xylene	11.95	106	1087486	52.181	ug/l	98
70) Styrene	11.96	104	1828836	54.589	ug/l	99
71) Bromoform	12.13	173	434437	55.553	ug/l #	100
73) Isopropylbenzene	12.25	105	2944910	52.847	ug/l	100
74) N-amyl acetate	12.07	43	779198	50.932	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	485358	38.863	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	527141m	47.872	ug/l	
77) Bromobenzene	12.53	156	742168	52.363	ug/l	99
78) n-propylbenzene	12.59	91	3434175	54.036	ug/l	100
79) 2-Chlorotoluene	12.67	91	1960444	52.178	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2361362	52.493	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	202821	59.170	ug/l #	75
82) 4-Chlorotoluene	12.77	91	2017797	52.526	ug/l	100
83) tert-Butylbenzene	12.99	119	2044655	51.526	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2393887	52.566	ug/l	99
85) sec-Butylbenzene	13.17	105	2857067	53.164	ug/l	100
86) p-Isopropyltoluene	13.29	119	2481920	53.307	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1292155	51.302	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1279307	51.289	ug/l	100
89) n-Butylbenzene	13.62	91	2159434	55.094	ug/l	100
90) Hexachloroethane	13.88	117	405477	52.009	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	1198705	49.475	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	92914	49.355	ug/l	97

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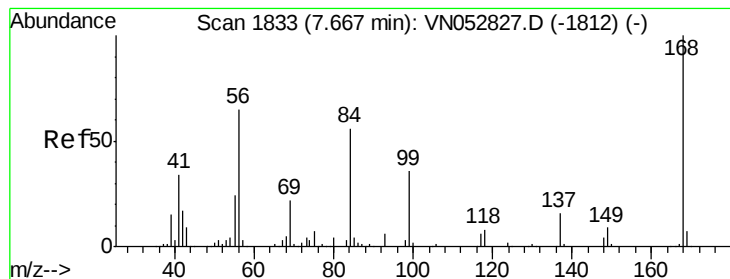
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	668275	50.741	ug/l	99
94) Hexachlorobutadiene	15.01	225	357730	46.927	ug/l	99
95) Naphthalene	15.13	128	1397532	51.234	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	590624	48.874	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052915.D

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Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:168 Resp: 1166985

Ion Ratio Lower Upper

168 100

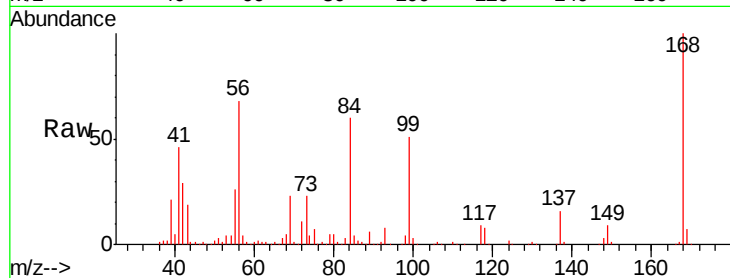
99 50.8 40.2 60.2

Manual Integrations

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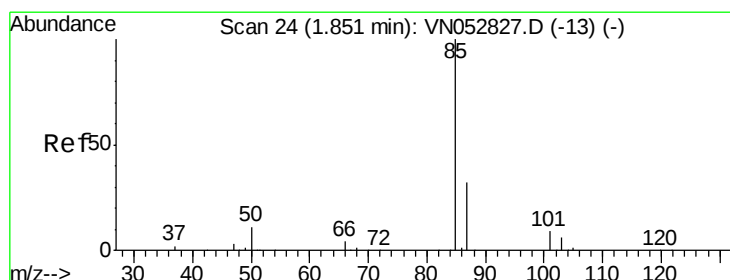
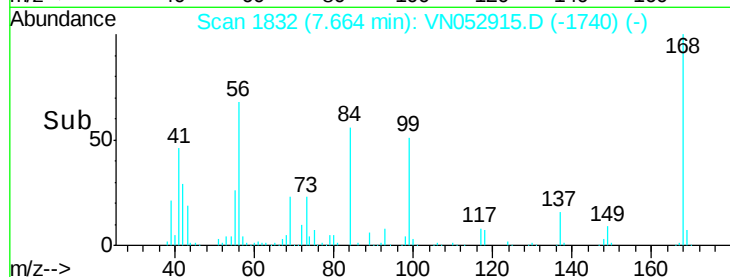
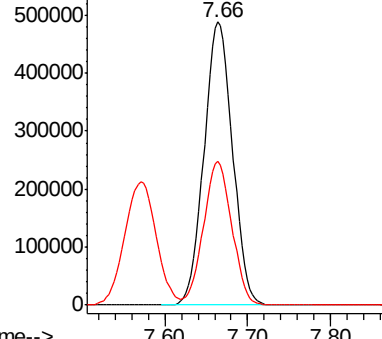
MMDadoda

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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: 49.489 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052915.D

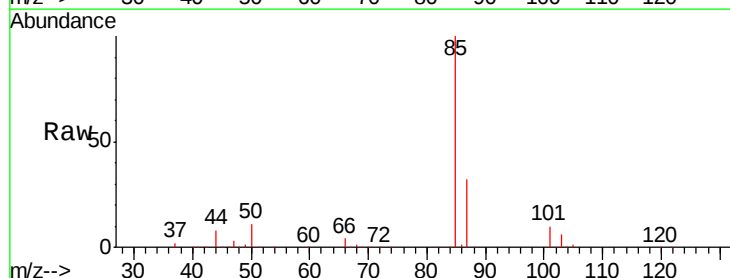
Acq: 17 Dec 2018 9:35

Tgt Ion: 85 Resp: 594506

Ion Ratio Lower Upper

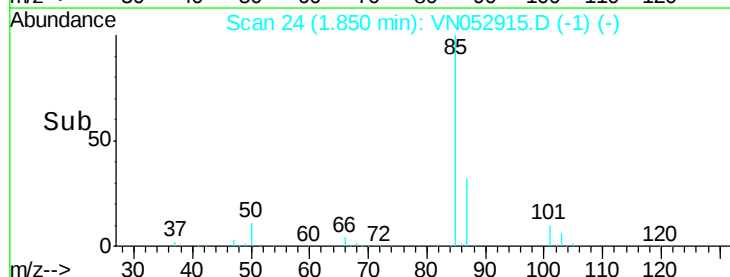
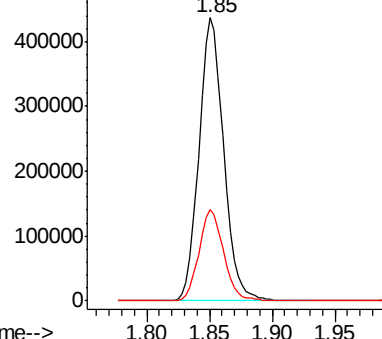
85 100

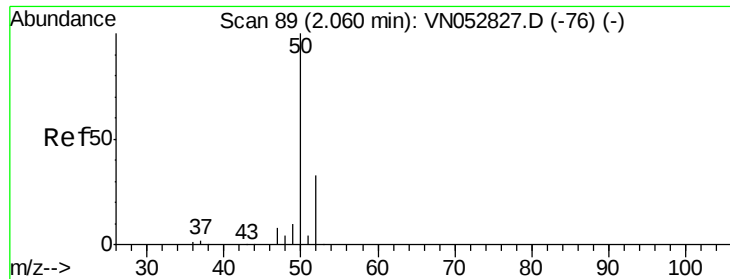
87 32.3 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 48.947 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 705714

Ion Ratio Lower Upper

50 100

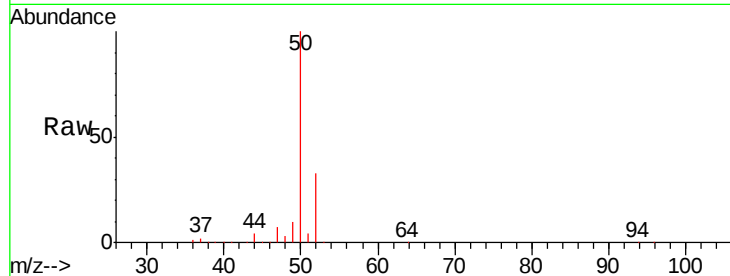
52 33.2 26.2 39.4

Manual Integrations

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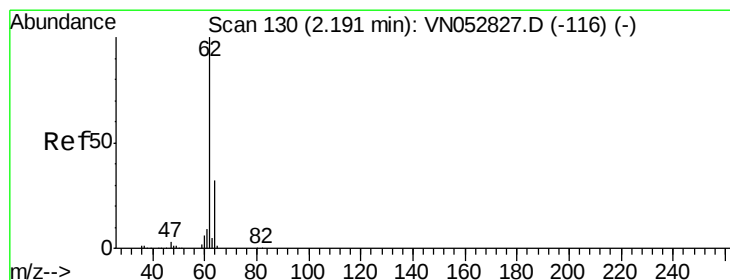
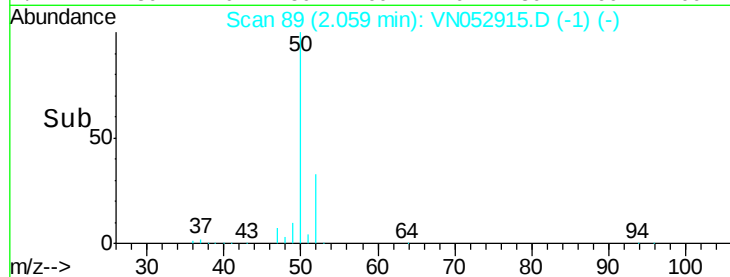
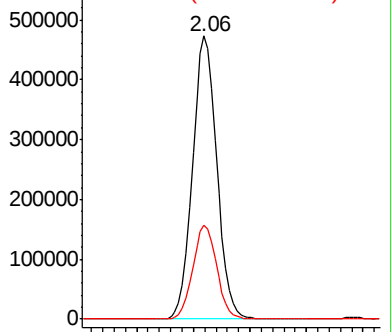
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 49.019 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052915.D

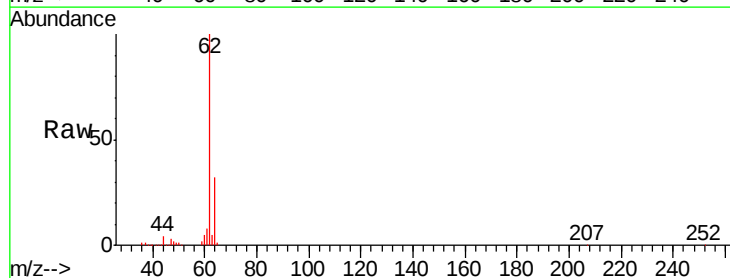
Acq: 17 Dec 2018 9:35

Tgt Ion: 62 Resp: 707063

Ion Ratio Lower Upper

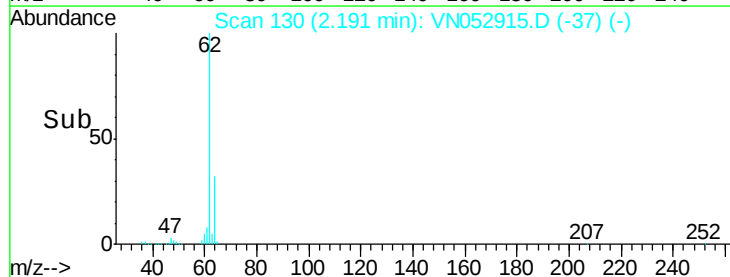
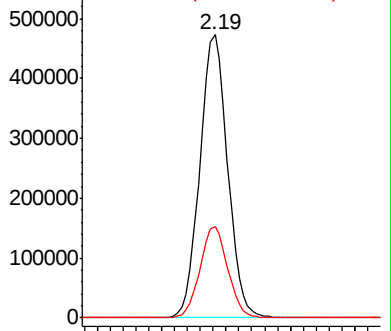
62 100

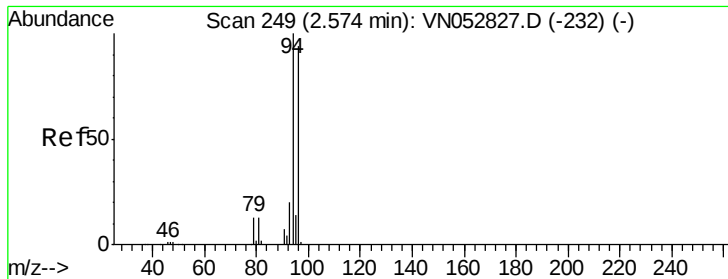
64 32.3 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 48.470 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 94 Resp: 431228

Ion Ratio Lower Upper

94 100

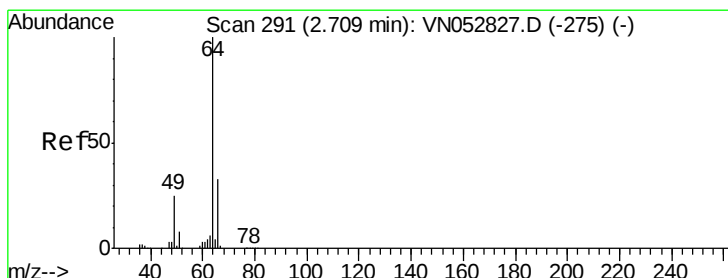
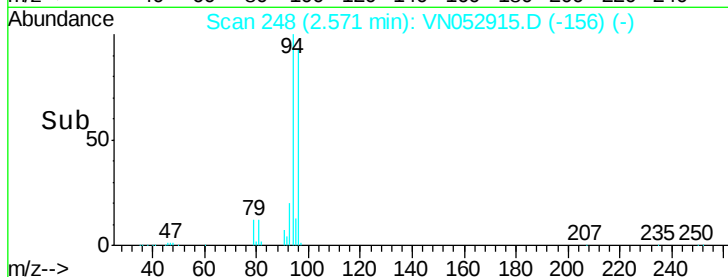
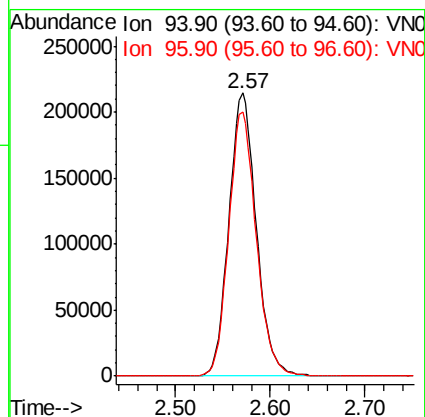
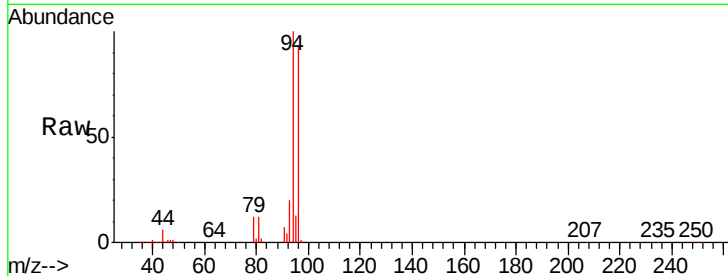
96 93.4 75.0 112.4

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#6

Chloroethane

Concen: 49.631 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052915.D

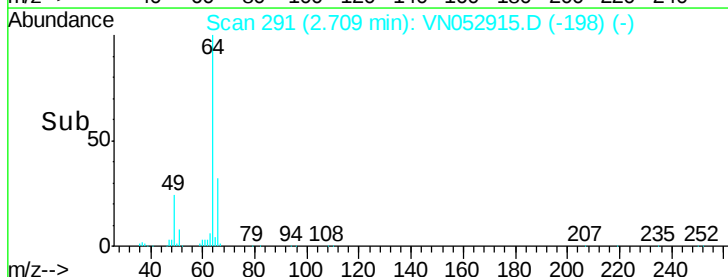
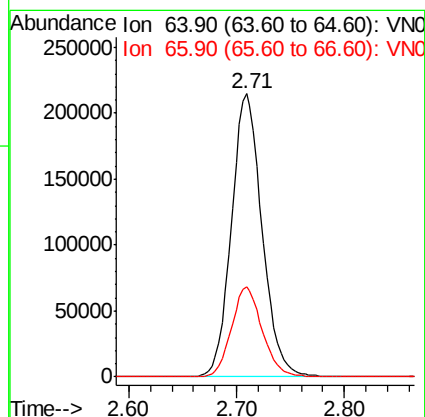
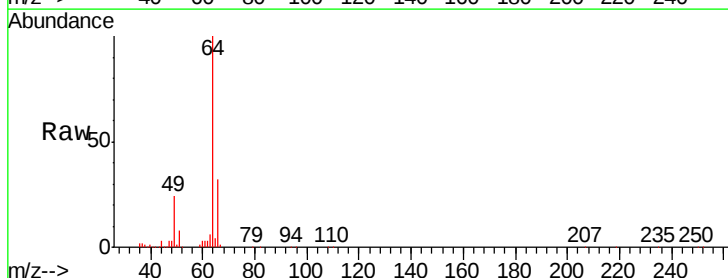
Acq: 17 Dec 2018 9:35

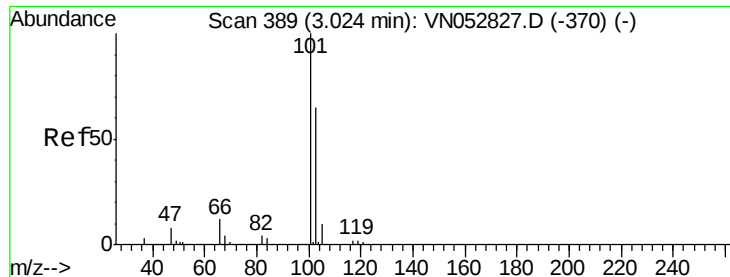
Tgt Ion: 64 Resp: 423153

Ion Ratio Lower Upper

64 100

66 31.9 26.2 39.2





#7

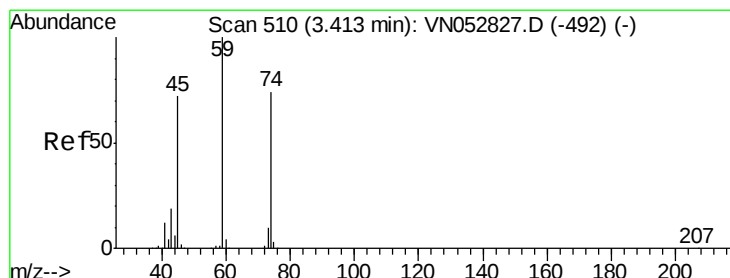
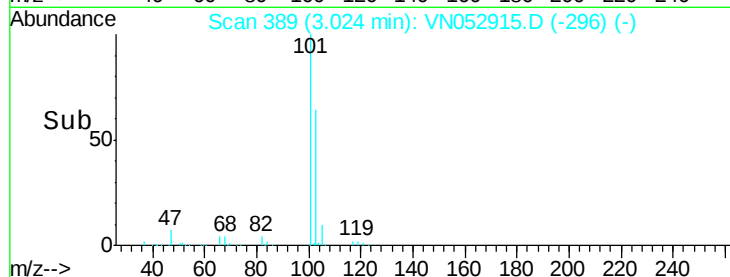
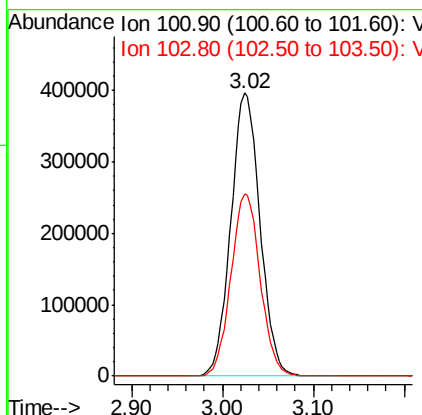
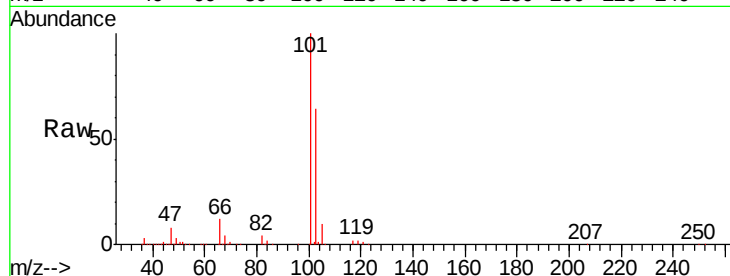
Trichlorofluoromethane
Concen: 49.439 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

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VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.8	77.6

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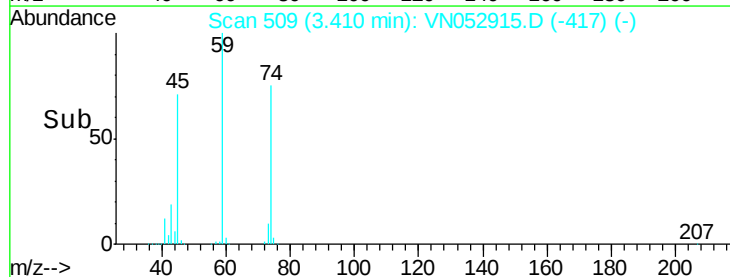
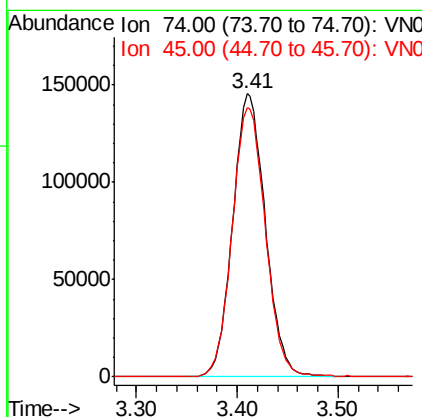
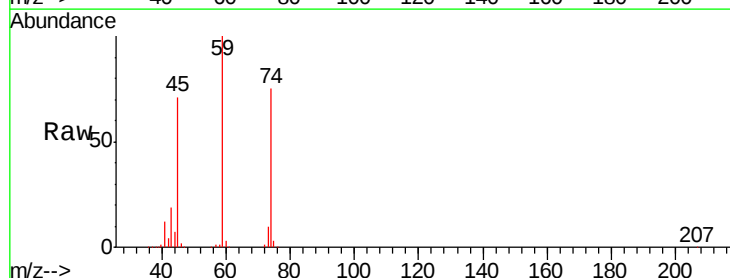
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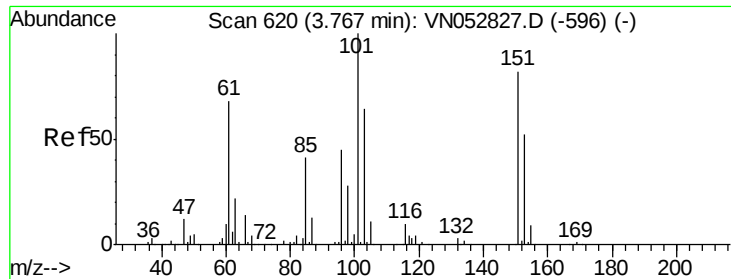


#8

Diethyl Ether
Concen: 50.079 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.9	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.472 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

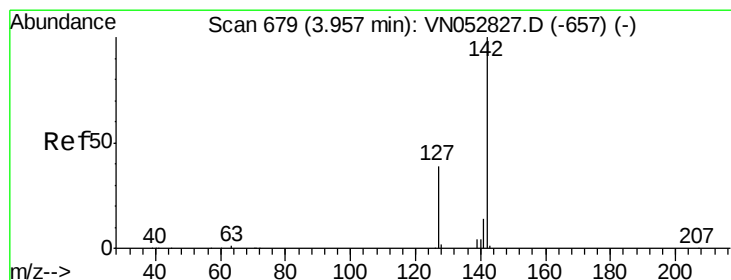
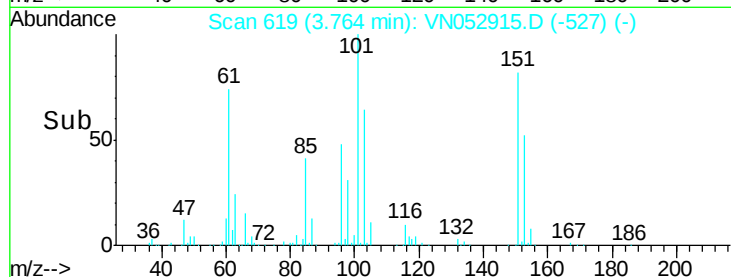
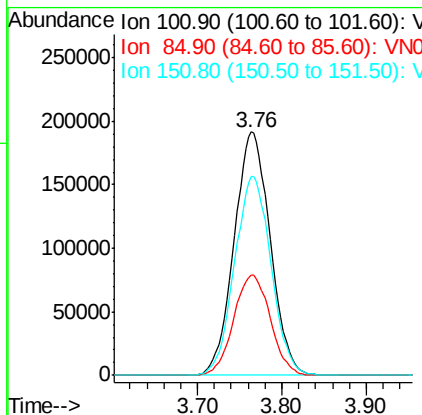
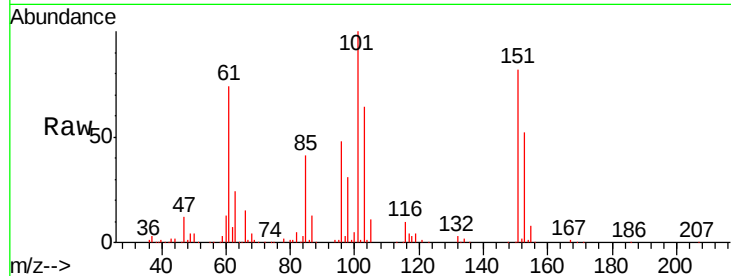
ClientSampleId :

VSTDCCC050

Tgt Ion:	101	Resp:	570479
Ion Ratio	Lower	Upper	
101	100		
85	41.8	33.6	50.4
151	82.7	65.5	98.3

Manual Integrations
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#10

Methyl Iodide

Concen: 50.261 ug/l

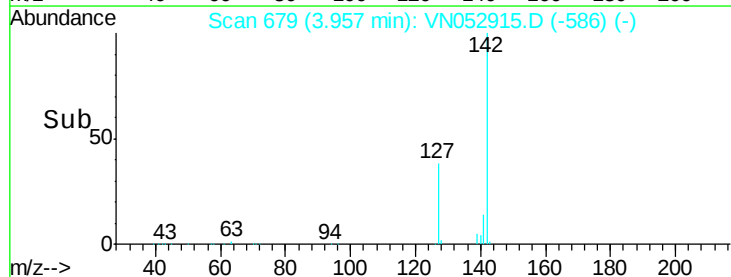
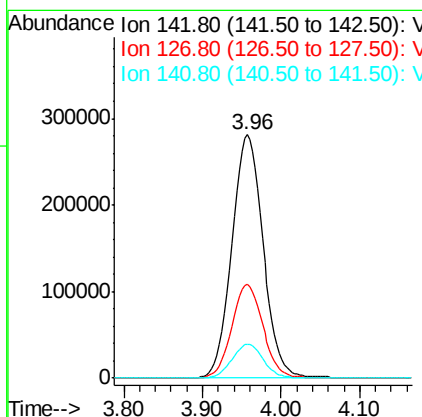
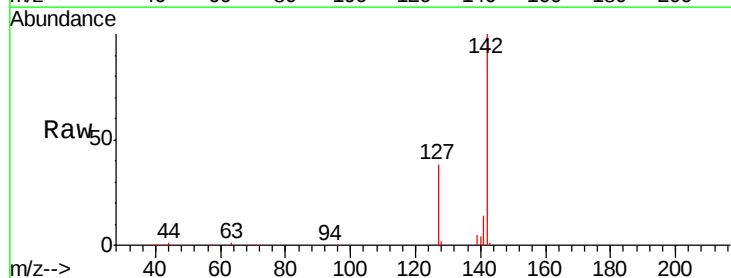
RT: 3.96 min Scan# 679

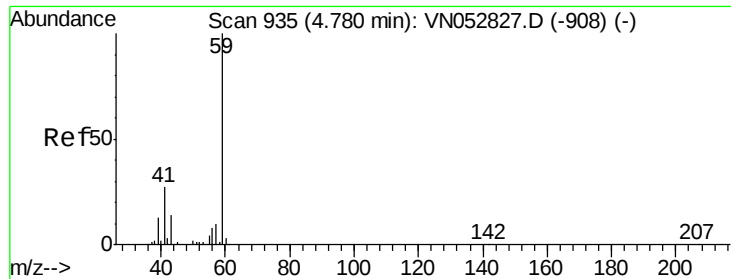
Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Tgt Ion:	142	Resp:	780131
Ion Ratio	Lower	Upper	
142	100		
127	38.6	31.0	46.6
141	14.1	11.2	16.8





#11

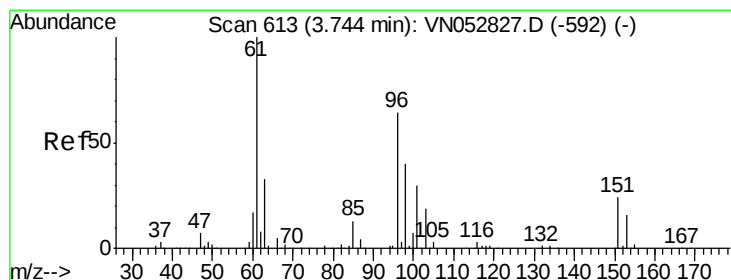
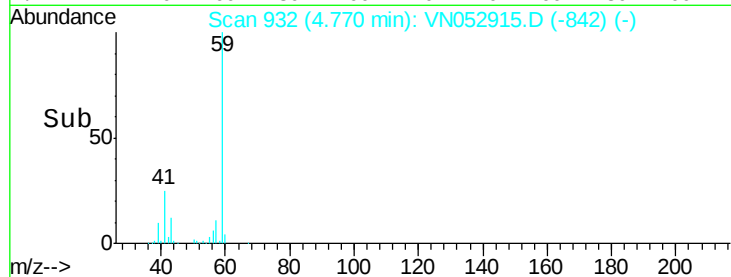
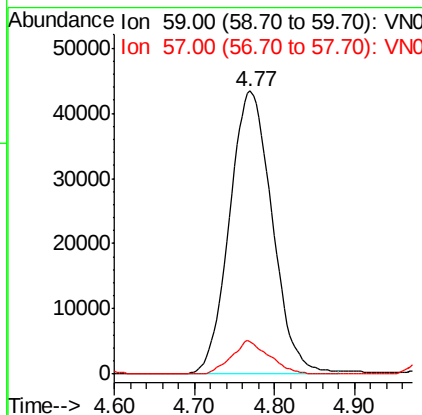
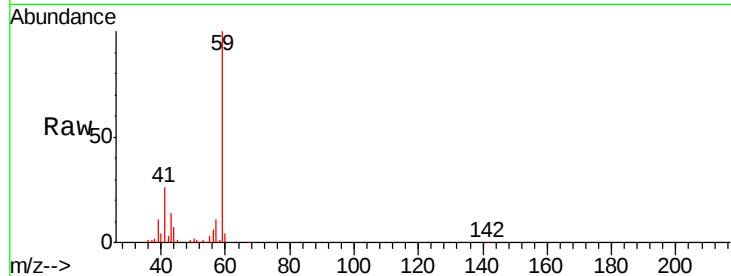
Tert butyl alcohol
 Concen: 227.306 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. -0.01 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
59	100		
57	10.5	7.7	11.5

Manual Integrations
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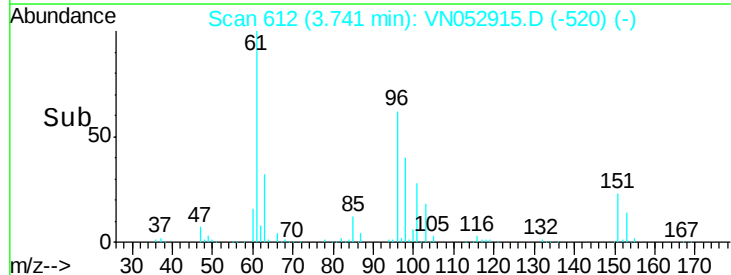
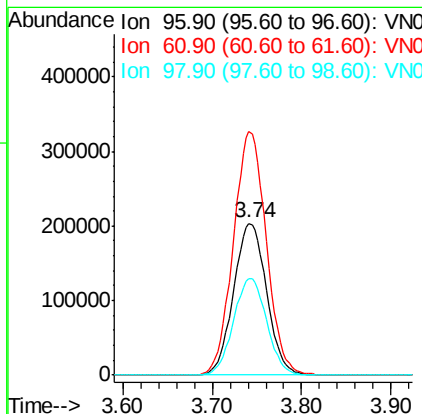
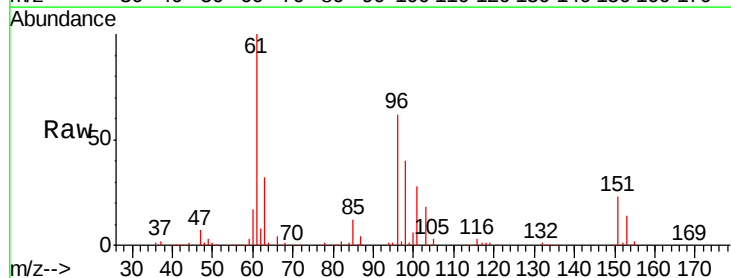
MMDadoda
 12/18/2018 1:32:59 PM

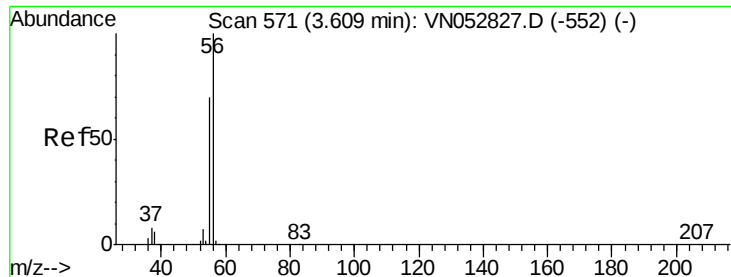


#12

1,1-Dichloroethene
 Concen: 48.789 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.7	125.6	188.4
98	63.9	50.6	75.8





#13

Acrolein

Concen: 128.354 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 83786

Ion Ratio Lower Upper

56 100

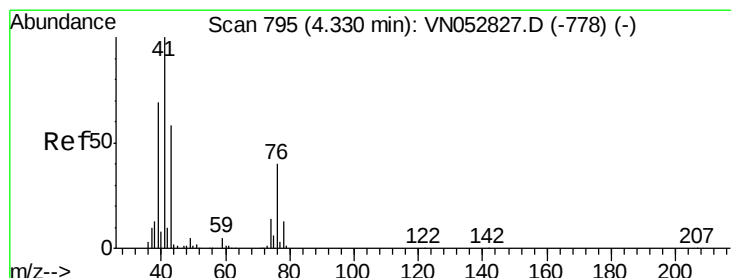
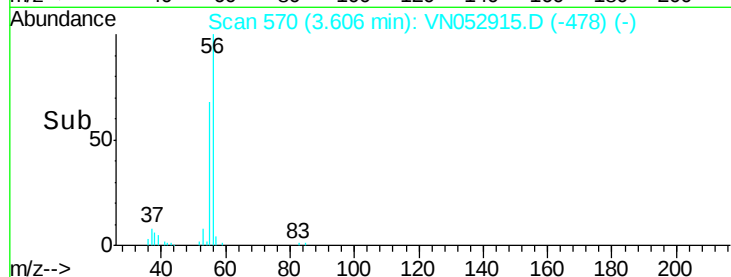
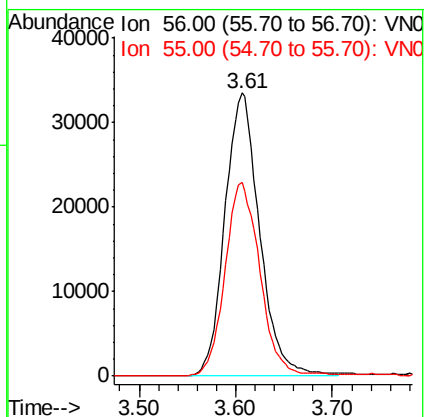
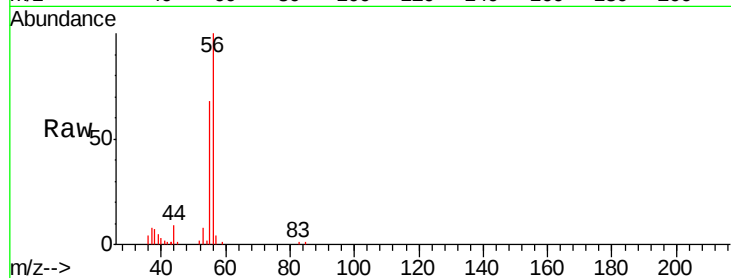
55 68.0 56.6 85.0

Manual Integrations

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#14

Allyl chloride

Concen: 49.013 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

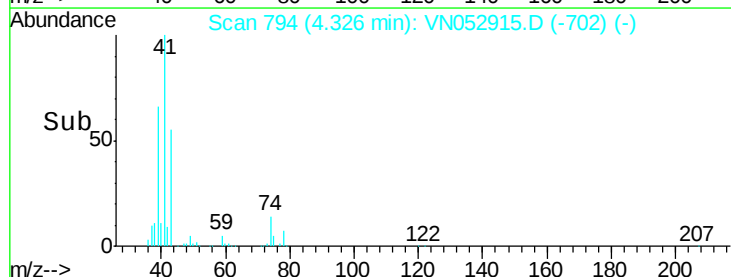
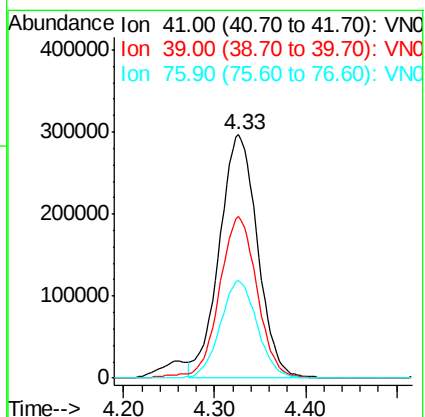
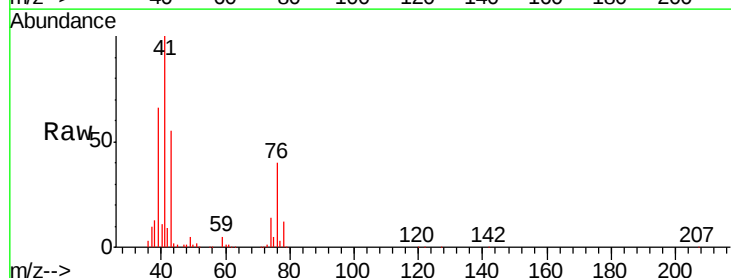
Tgt Ion: 41 Resp: 858932

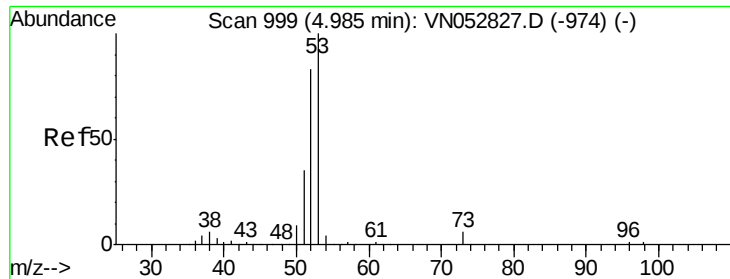
Ion Ratio Lower Upper

41 100

39 66.3 54.1 81.1

76 38.7 30.3 45.5





#15

Acrylonitrile

Concen: 244.176 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

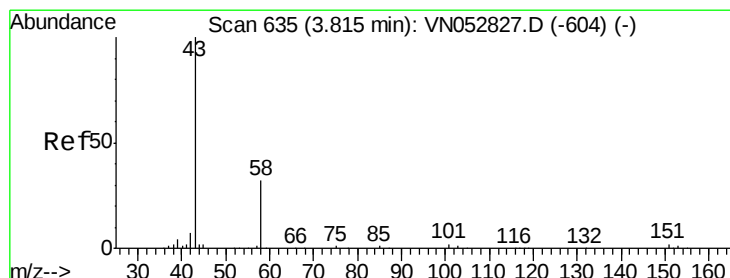
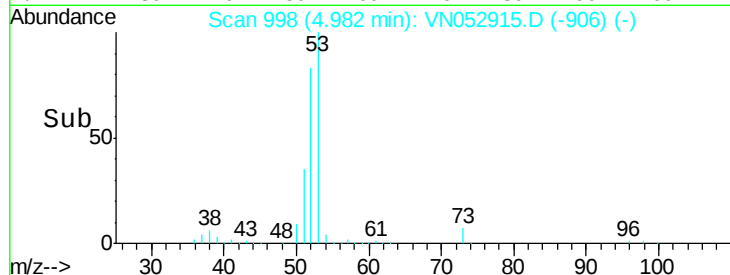
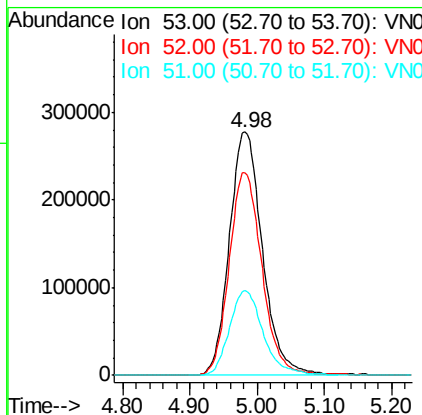
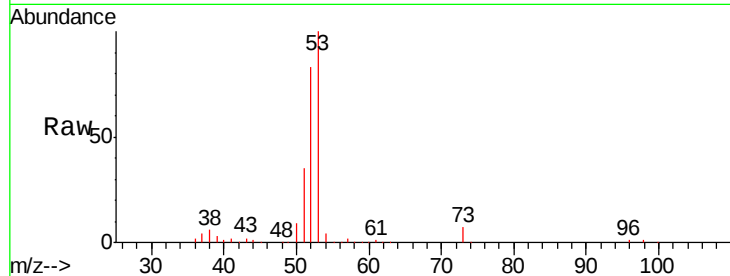
ClientSampleId :

VSTDCCC050

Tgt Ion:	53	Resp:	949751
Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.1	97.7
51	35.8	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 170.174 ug/l

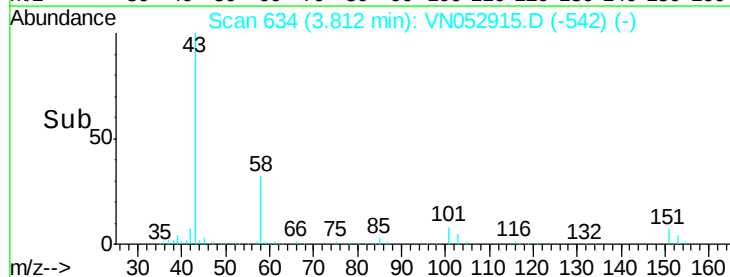
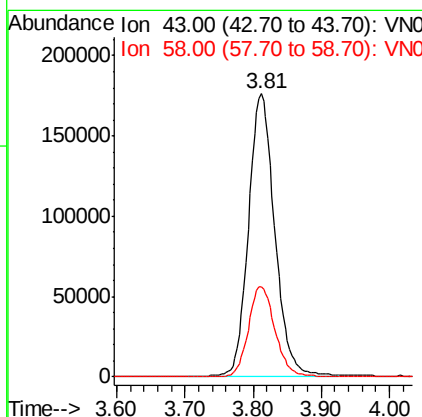
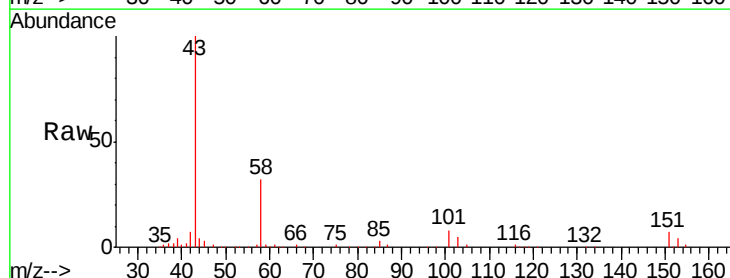
RT: 3.81 min Scan# 634

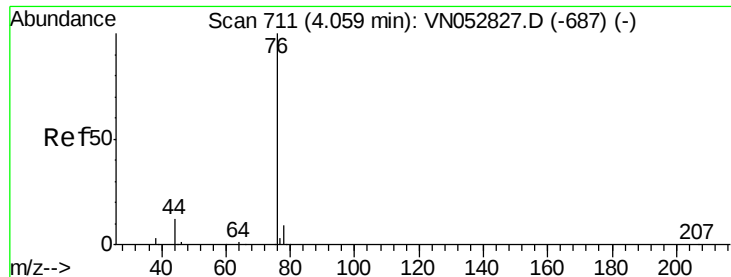
Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Tgt Ion:	43	Resp:	474248
Ion	Ratio	Lower	Upper
43	100		
58	31.6	25.4	38.0





#17

Carbon Disulfide

Concen: 50.326 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 1658747

Ion Ratio Lower Upper

76 100

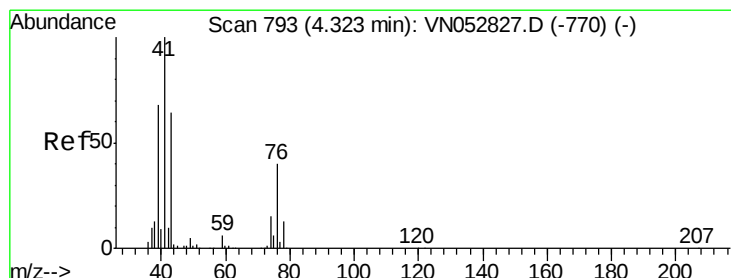
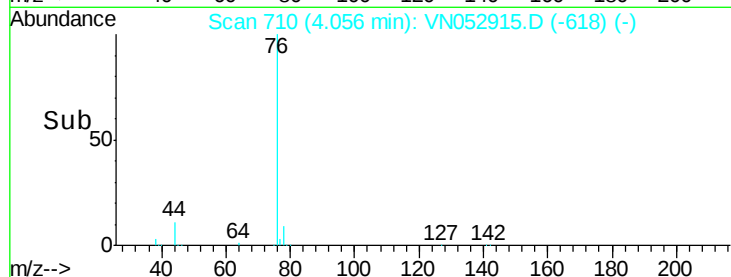
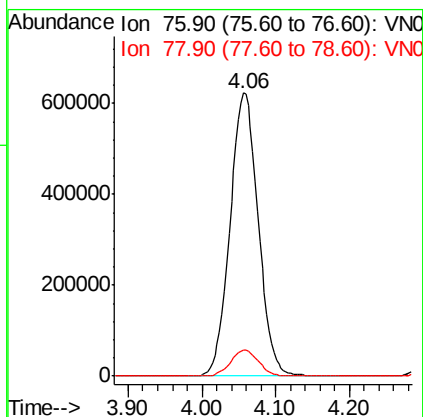
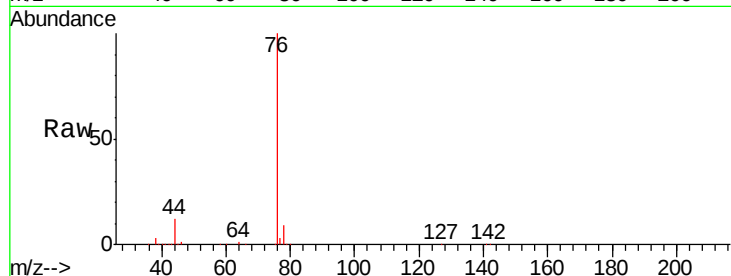
78 9.2 7.1 10.7

Manual Integrations

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12/18/2018 1:32:59 PM



#18

Methyl Acetate

Concen: 48.563 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN052915.D

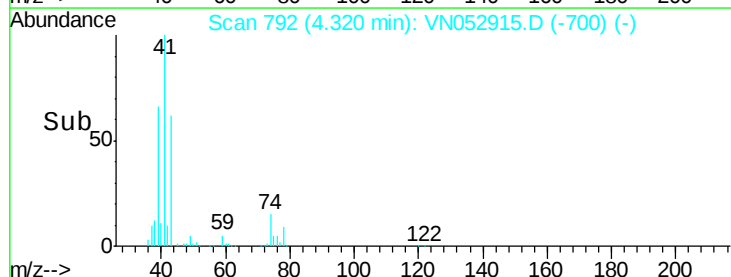
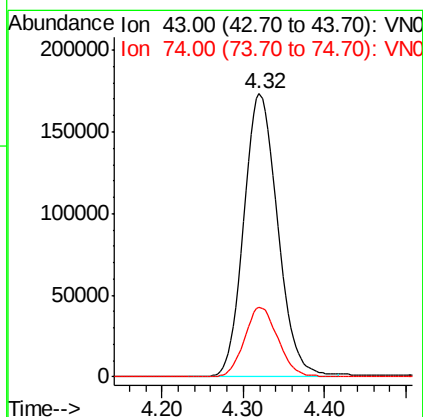
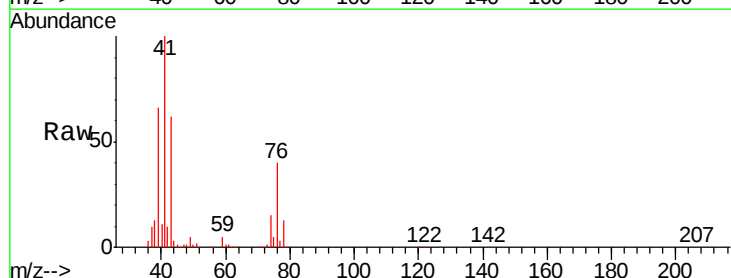
Acq: 17 Dec 2018 9:35

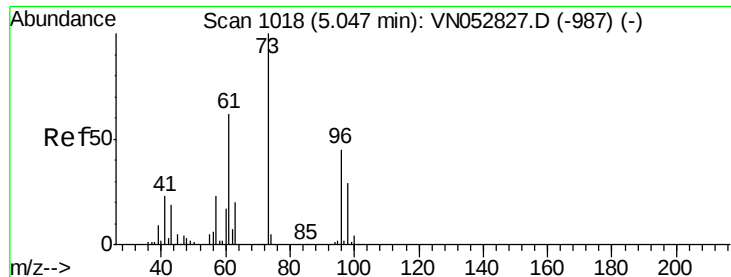
Tgt Ion: 43 Resp: 496690

Ion Ratio Lower Upper

43 100

74 24.3 19.2 28.8





#19

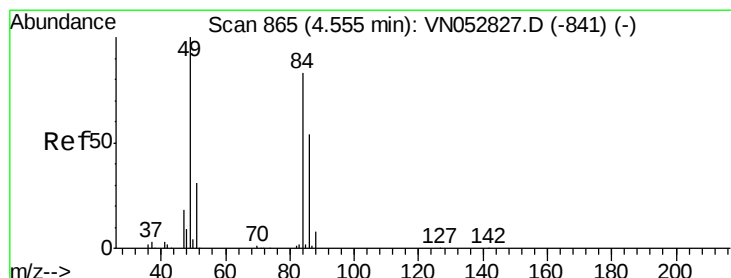
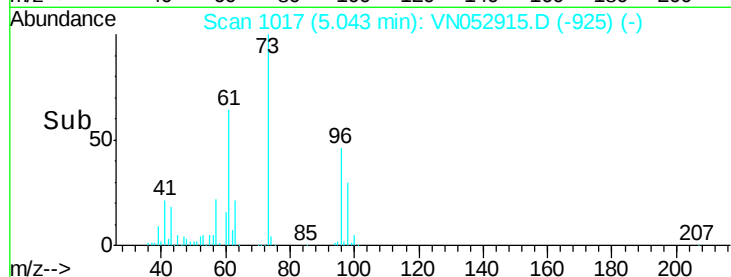
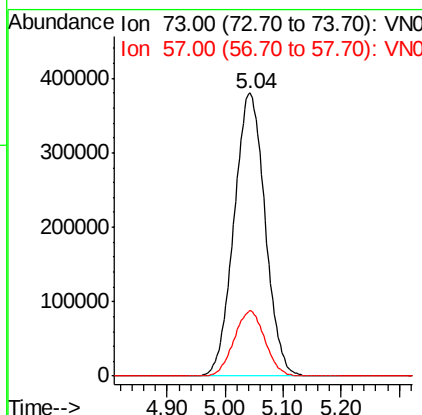
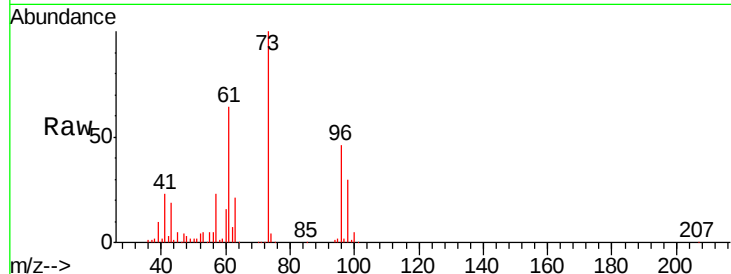
Methyl tert-butyl Ether
 Concen: 48.609 ug/l
 RT: 5.04 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 73 Resp: 1415856
 Ion Ratio Lower Upper
 73 100
 57 23.1 18.4 27.6

Manual Integrations
 APPROVED

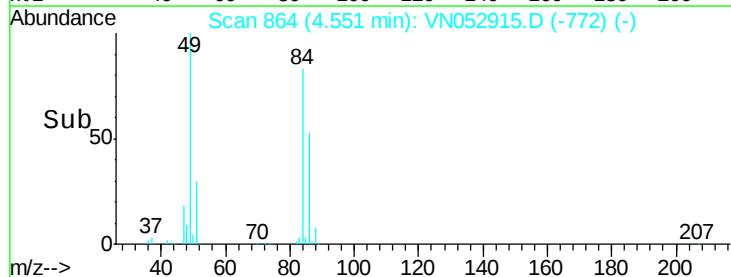
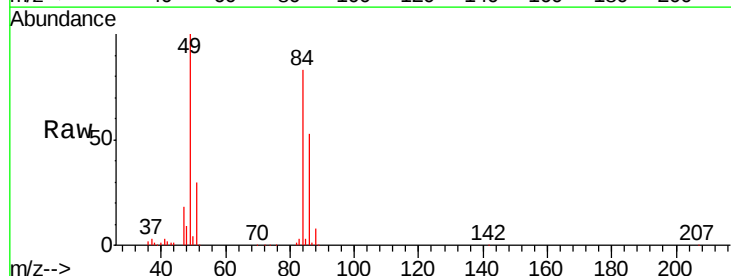
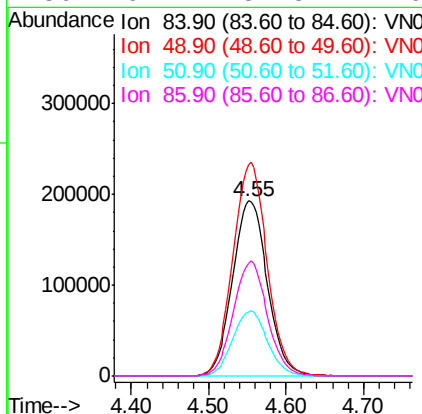
MMDadoda
 12/18/2018 1:32:59 PM

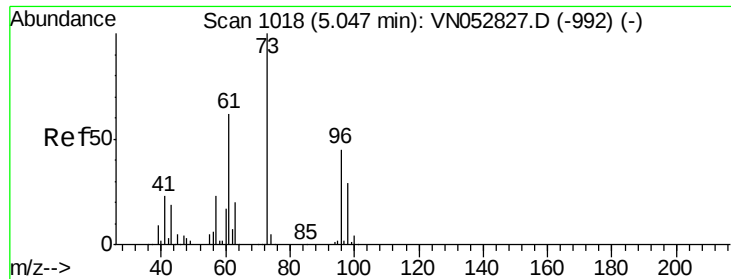


#20

Methylene Chloride
 Concen: 48.078 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 84 Resp: 602961
 Ion Ratio Lower Upper
 84 100
 49 120.8 96.8 145.2
 51 36.8 29.9 44.9
 86 64.4 51.8 77.6





#21

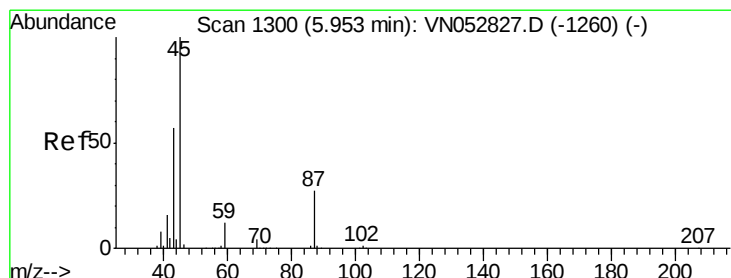
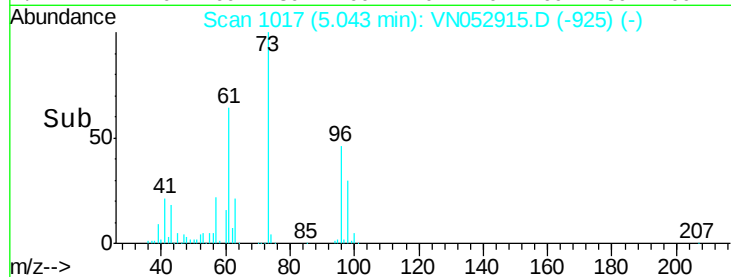
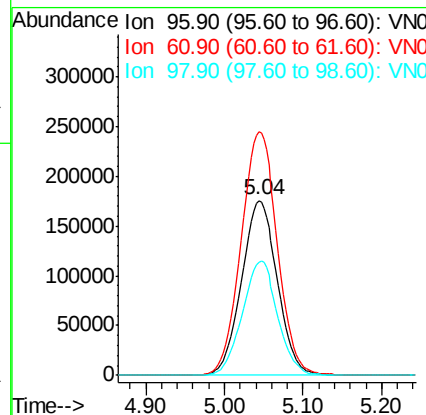
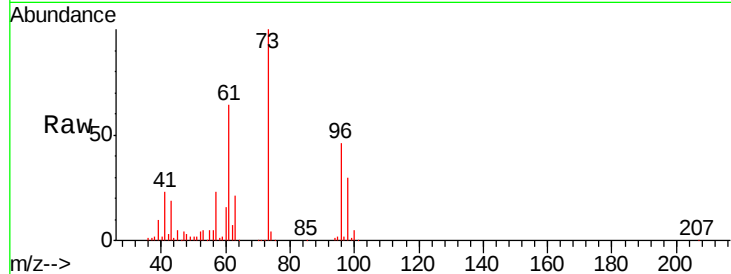
trans-1,2-Dichloroethene
Concen: 48.260 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.5	110.8	166.2
98	64.8	51.4	77.2

Manual Integrations
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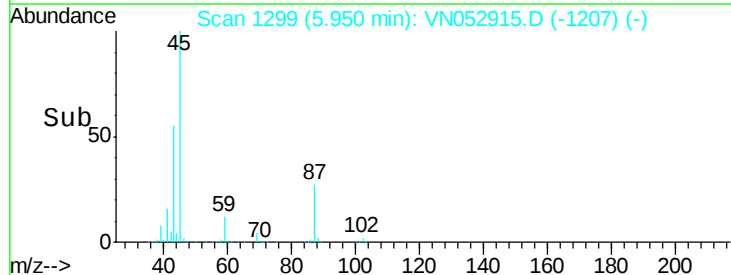
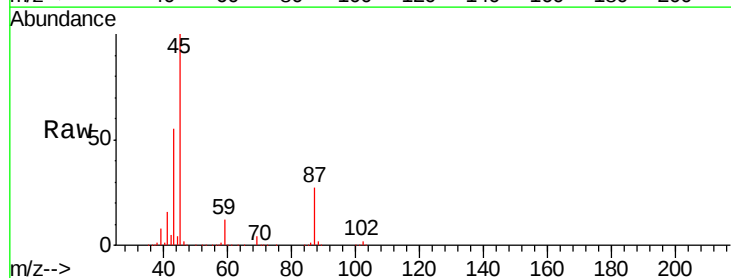
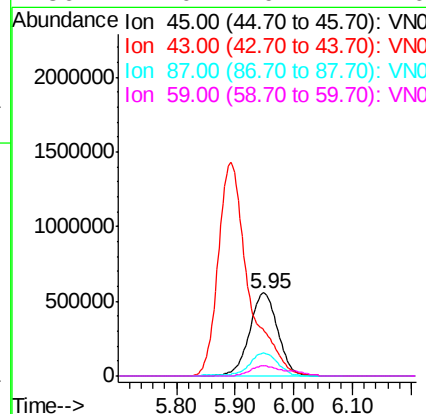
MMDadoda
12/18/2018 1:32:59 PM

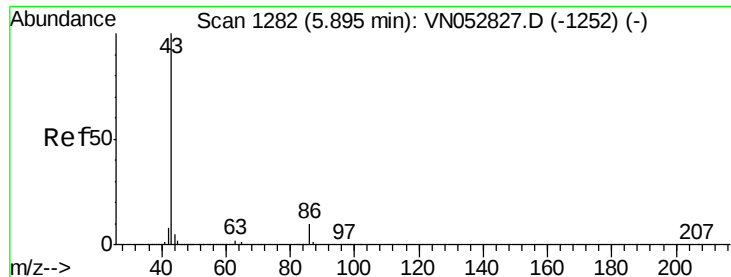


#22

Diisopropyl ether
Concen: 49.893 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
45	100		
43	54.1	45.5	68.3
87	27.2	22.0	33.0
59	12.0	9.4	14.0





#23

Vinyl Acetate

Concen: 229.478 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 5105020

Ion Ratio Lower Upper

43 100

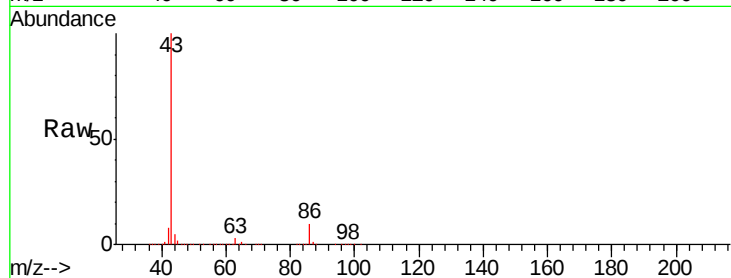
86 10.2 8.1 12.1

Manual Integrations

APPROVED

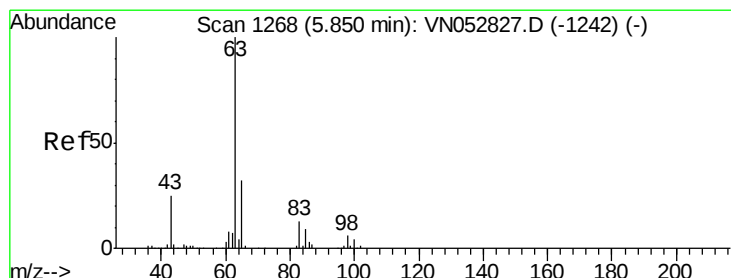
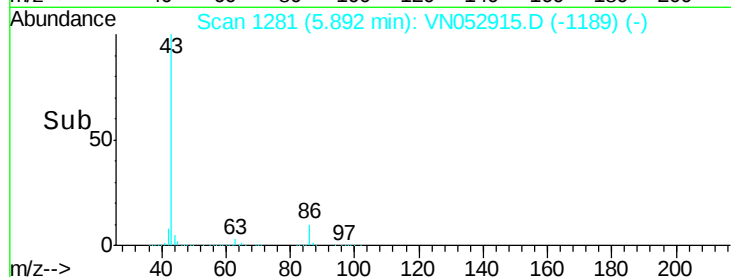
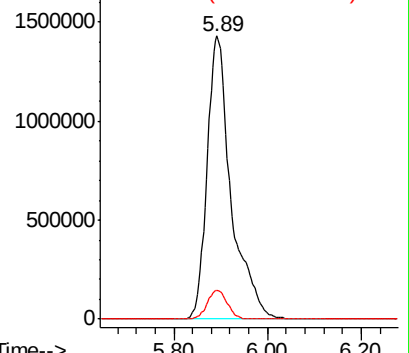
MMDadoda

12/18/2018 1:32:59 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 49.038 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

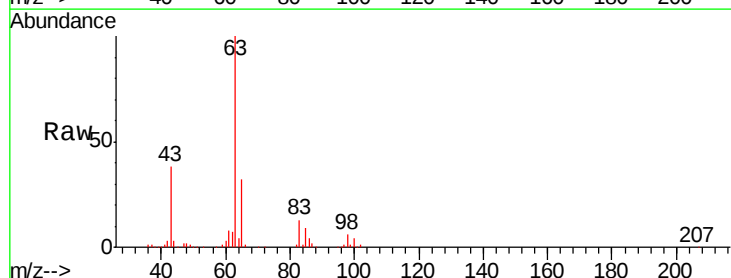
Tgt Ion: 63 Resp: 1057242

Ion Ratio Lower Upper

63 100

98 6.3 3.1 9.4

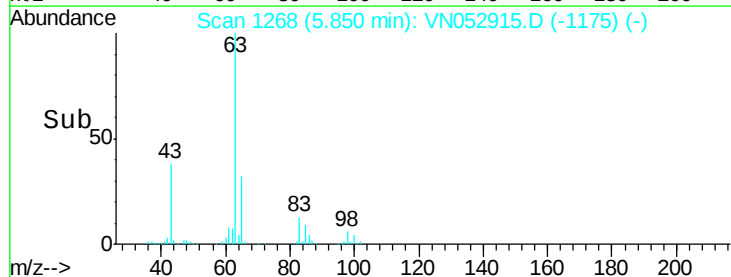
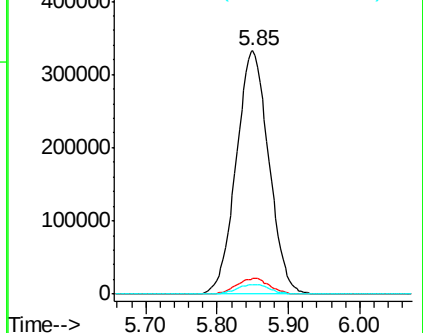
100 4.0 2.0 5.8

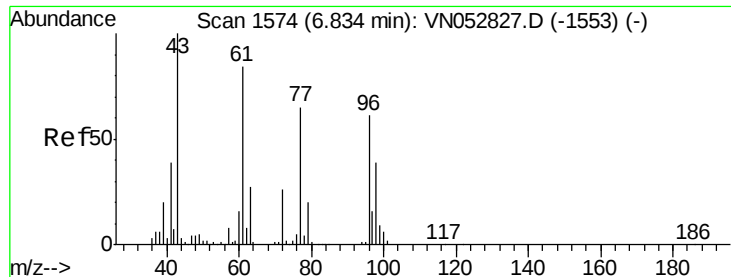


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





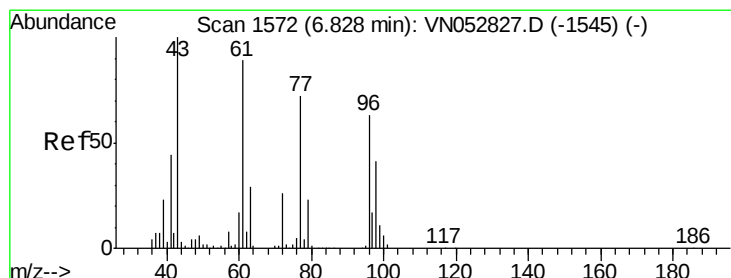
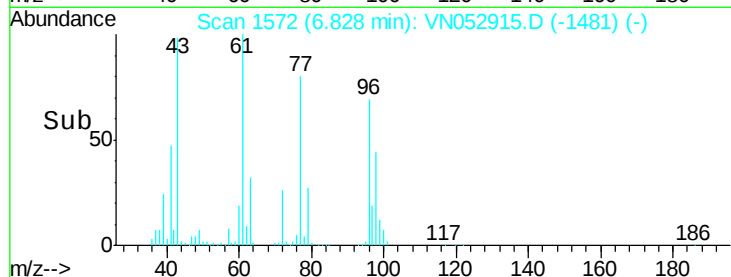
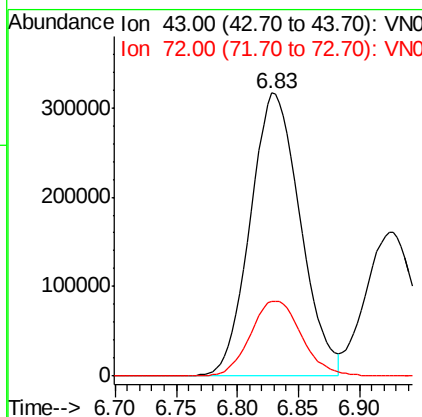
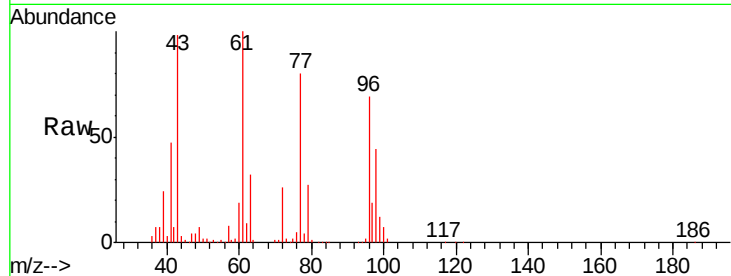
#25
2-Butanone
Concen: 207.683 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 898058
Ion Ratio Lower Upper
43 100
72 26.5 21.0 31.6

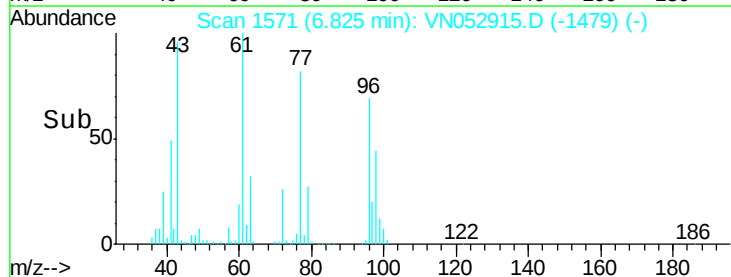
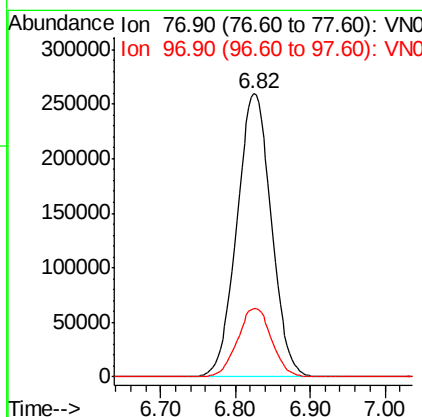
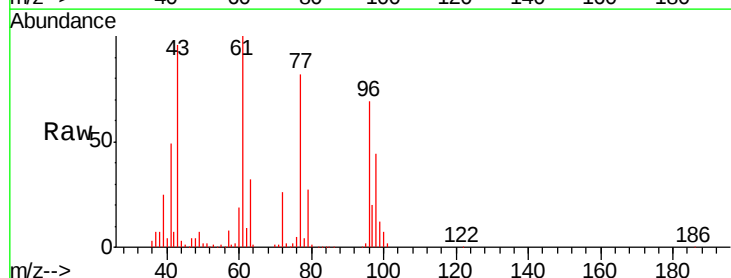
Manual Integrations
APPROVED

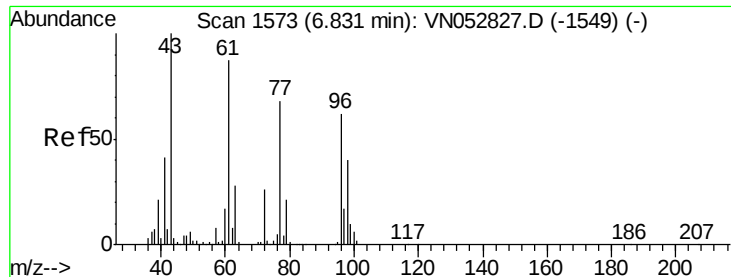
MMDadoda
12/18/2018 1:32:59 PM



#26
2,2-Dichloropropane
Concen: 52.278 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 77 Resp: 830009
Ion Ratio Lower Upper
77 100
97 24.0 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 49.011 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

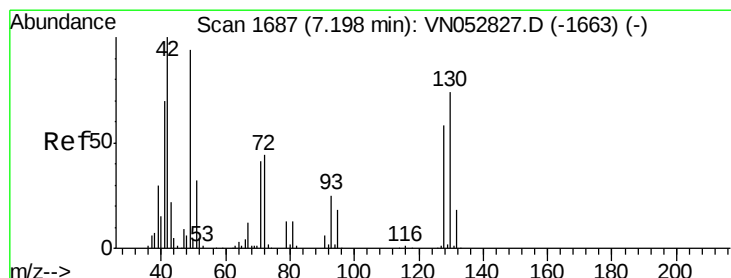
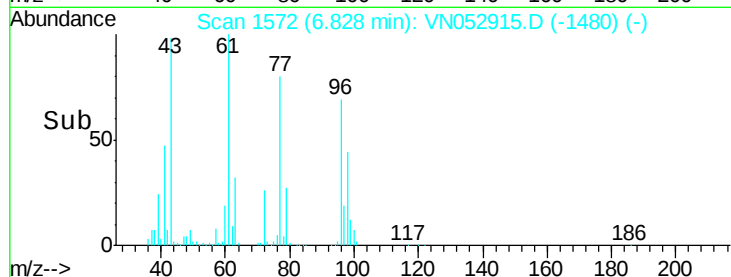
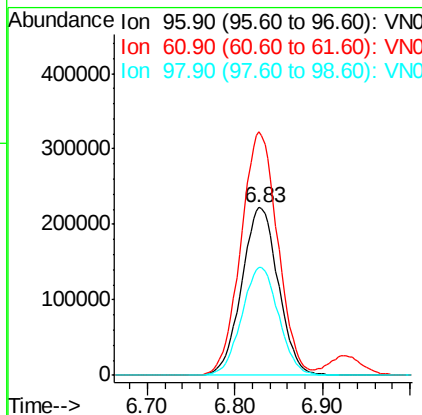
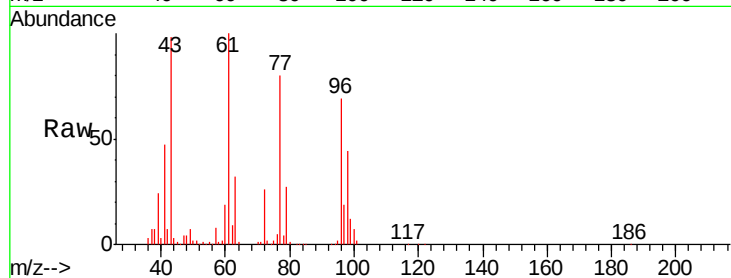
ClientSampleId :

VSTDCCC050

Tgt Ion:	96	Resp:	646590
Ion	Ratio	Lower	Upper
96	100		
61	145.7	0.0	284.2
98	64.8	0.0	129.2

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#28

Bromochloromethane

Concen: 50.180 ug/l

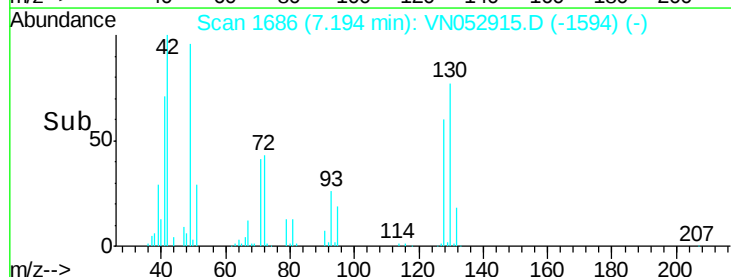
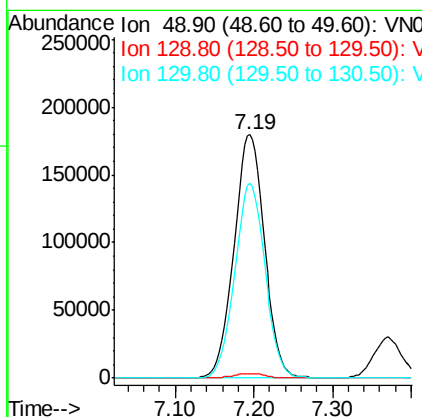
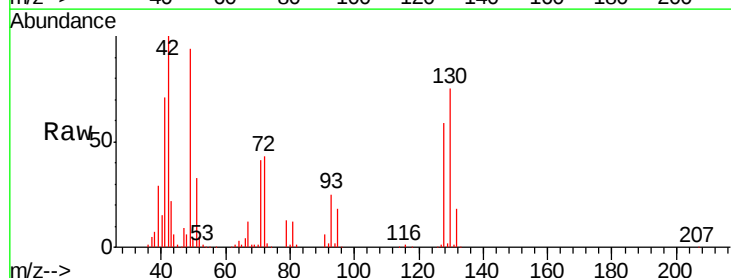
RT: 7.19 min Scan# 1686

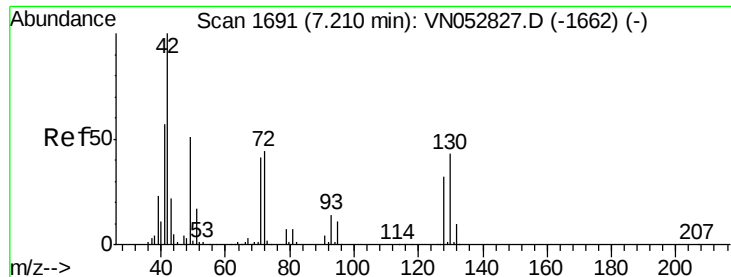
Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Tgt Ion:	49	Resp:	485802
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	79.5	63.3	94.9





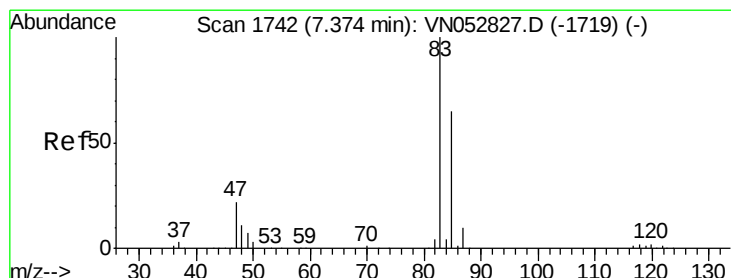
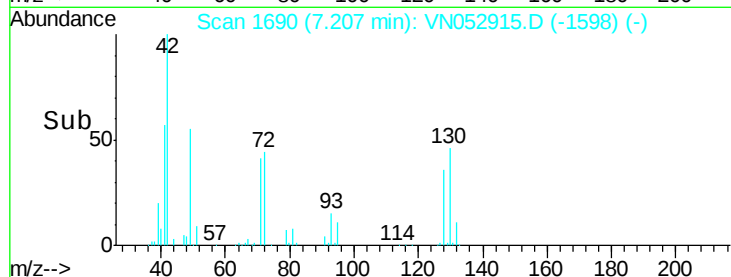
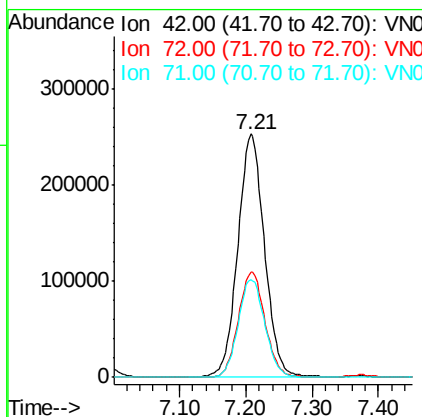
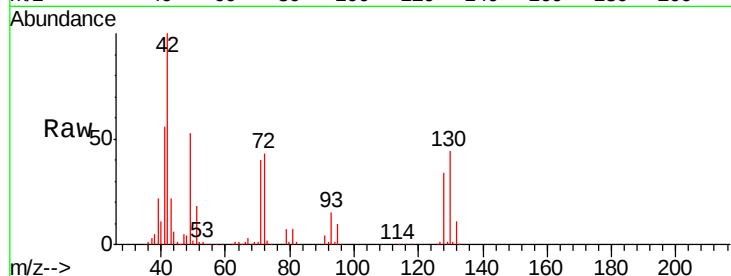
#29
Tetrahydrofuran
Concen: 239.414 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.3	34.7	52.1
71	40.3	32.3	48.5

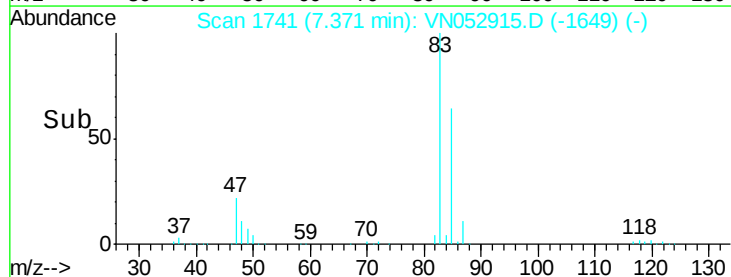
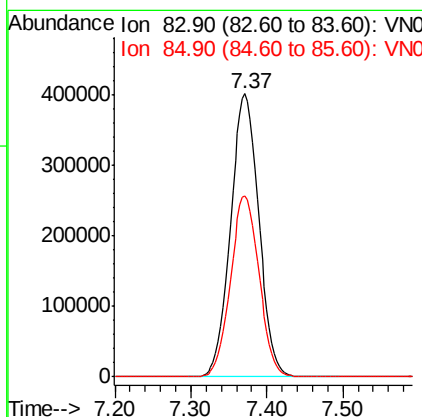
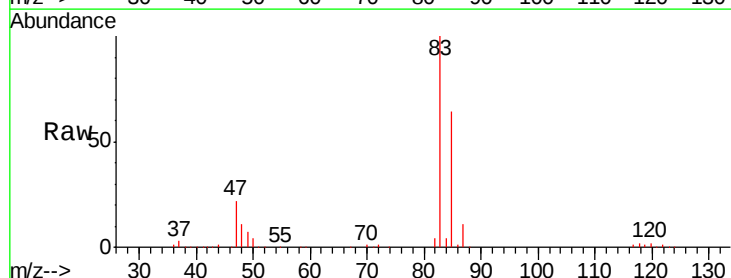
Manual Integrations
APPROVED

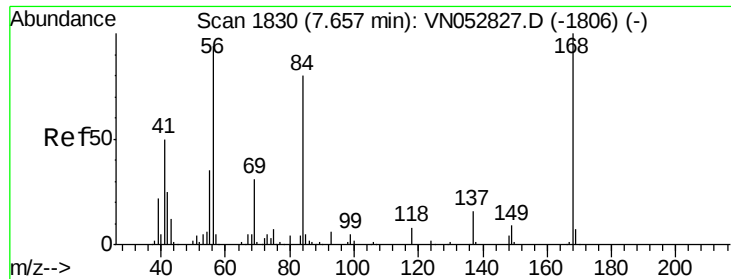
MMDadoda
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#30
Chloroform
Concen: 49.367 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.1	78.1





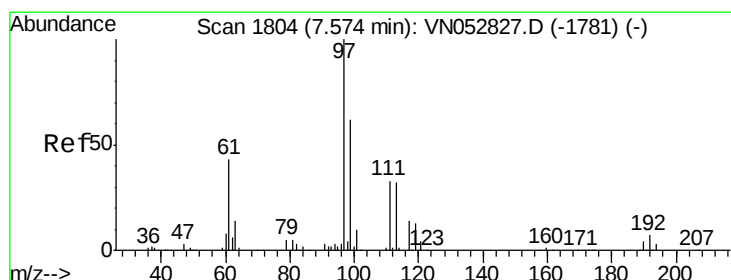
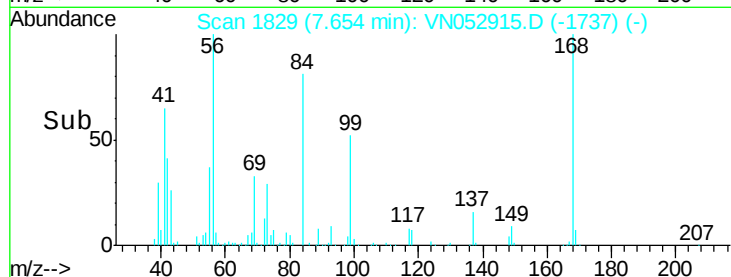
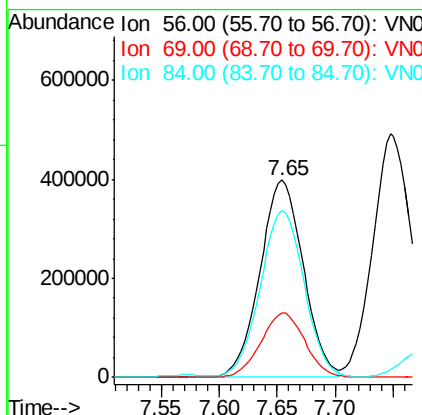
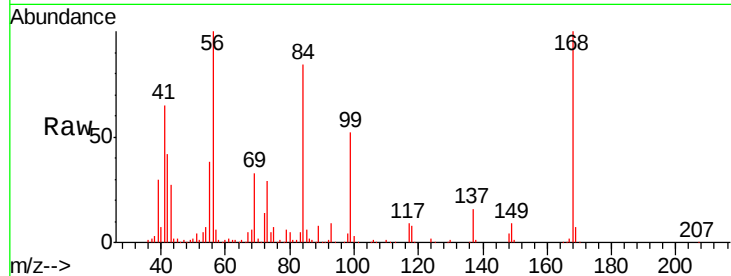
#31
Cyclohexane
Concen: 49.257 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 1035909
Ion Ratio Lower Upper
56 100
69 32.6 26.6 39.8
84 83.4 68.4 102.6

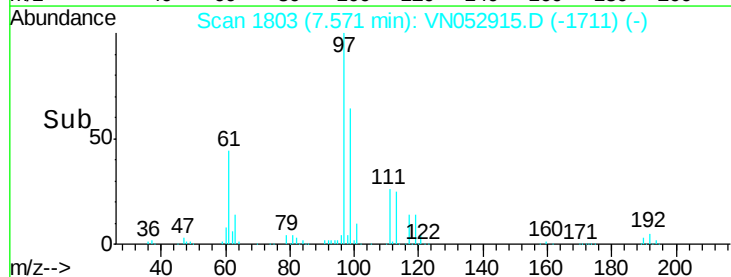
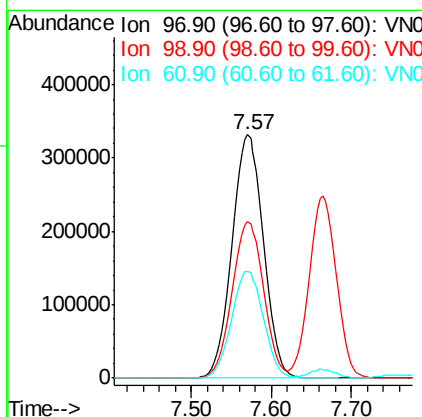
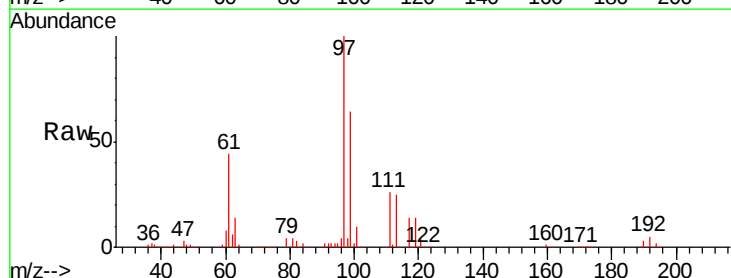
Manual Integrations
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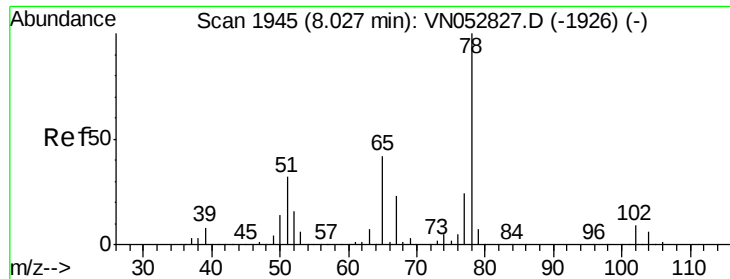
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#32
1,1,1-Trichloroethane
Concen: 50.074 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 97 Resp: 880821
Ion Ratio Lower Upper
97 100
99 64.4 51.1 76.7
61 44.5 35.0 52.6





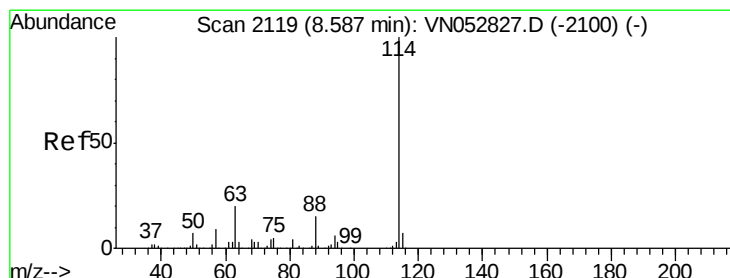
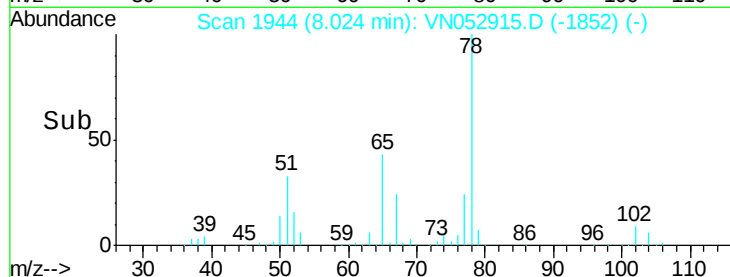
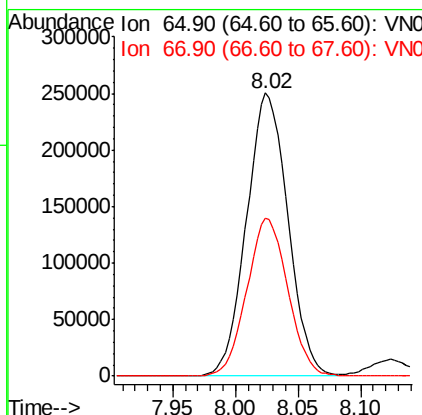
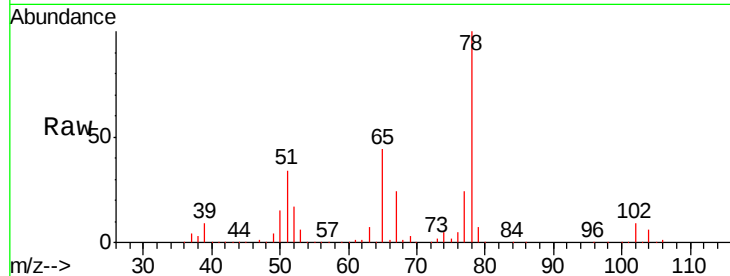
#33
 1,2-Dichloroethane-d4
 Concen: 50.074 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 65 Resp: 576726
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 110.4

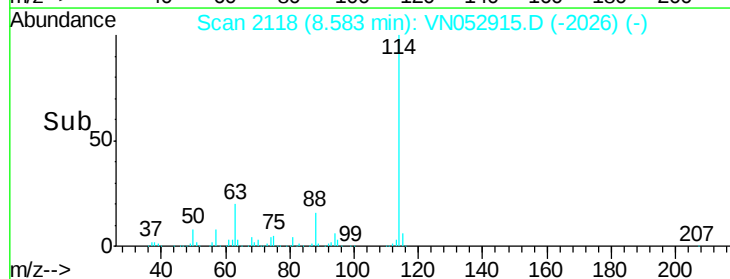
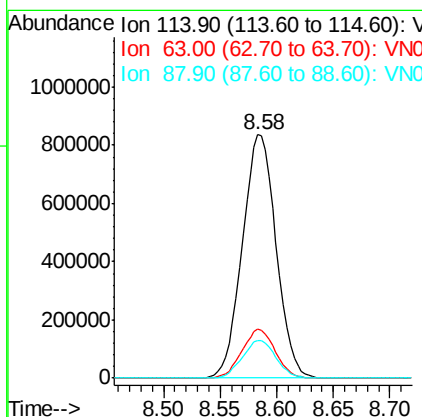
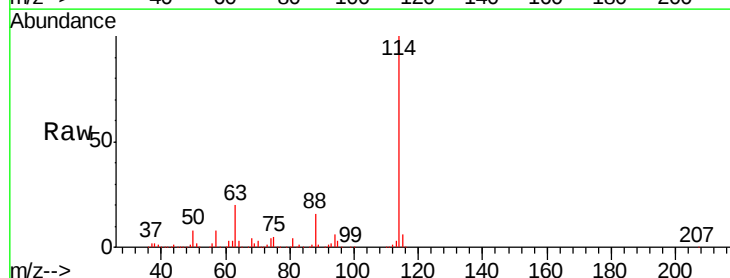
Manual Integrations
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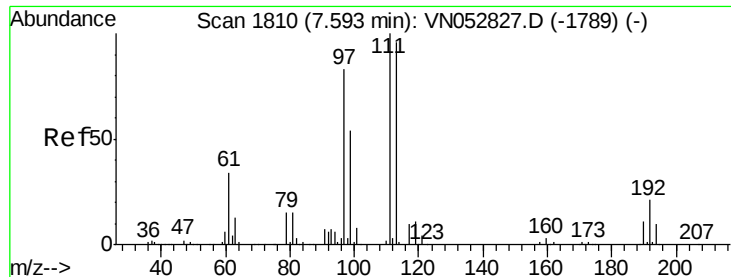
MMDadoda
 12/18/2018 1:32:59 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 114 Resp: 1739843
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.8
 88 15.6 0.0 31.0





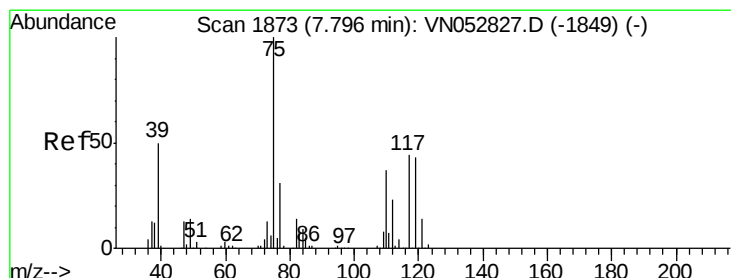
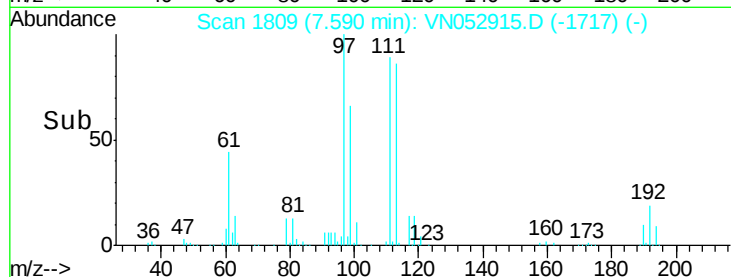
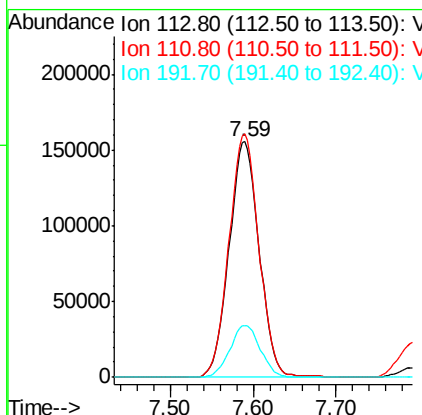
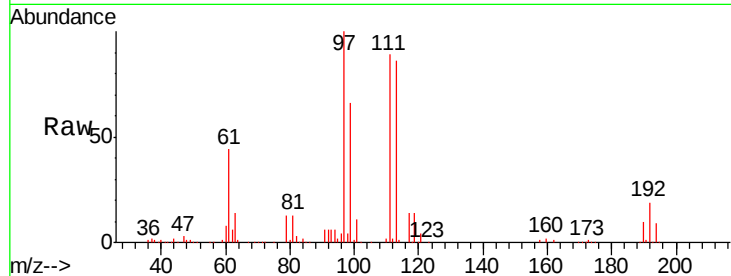
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	392593		
111	103.0	83.0	124.4	
192	22.2	17.5	26.3	

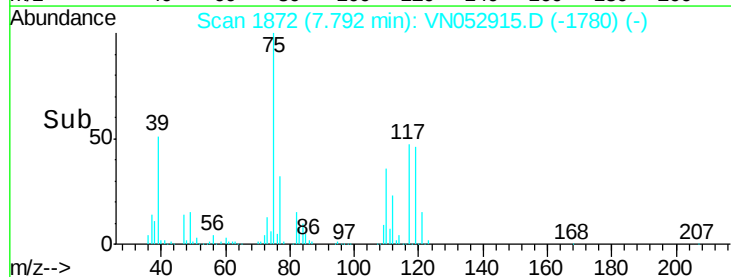
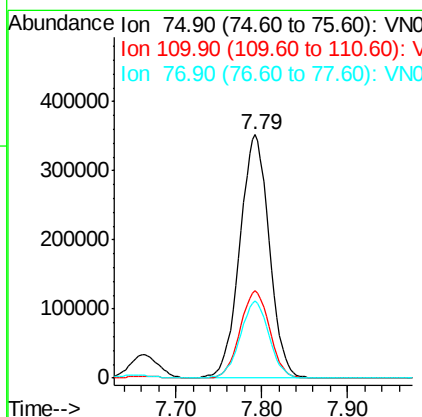
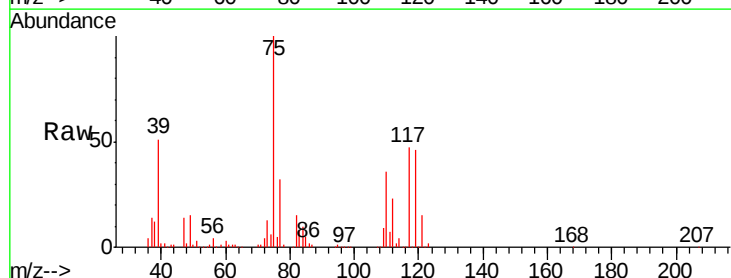
Manual Integrations
APPROVED

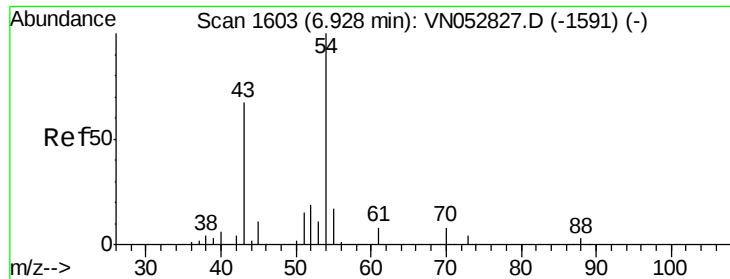
MMDadoda
12/18/2018 1:32:59 PM



#36
1,1-Dichloropropene
Concen: 52.146 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	835468		
110	36.0	18.2	54.6	
77	31.2	24.9	37.3	





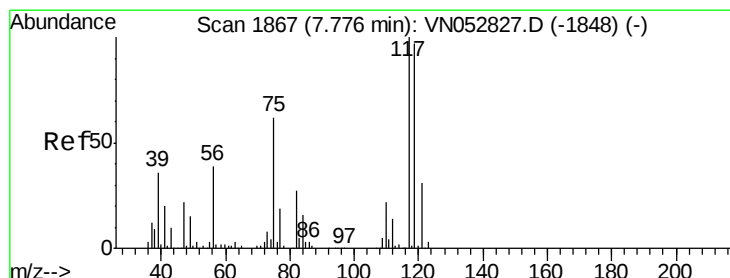
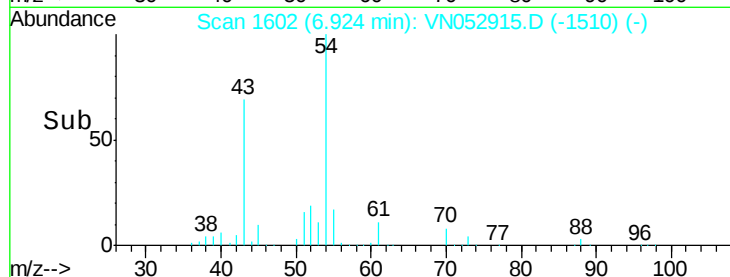
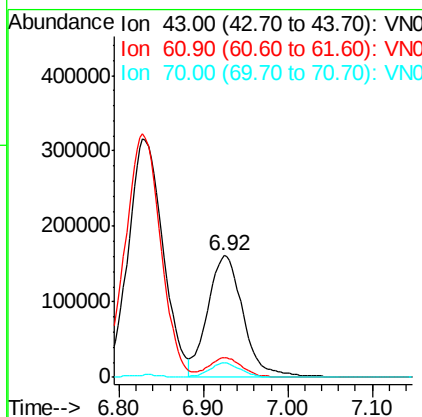
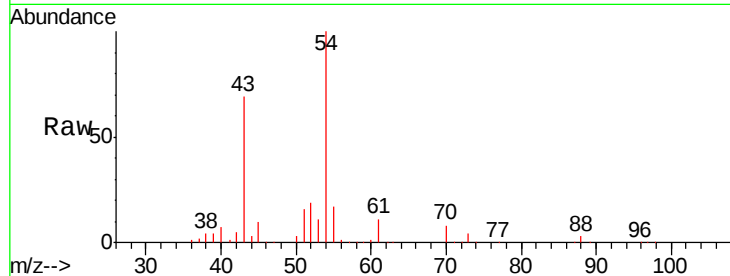
#37
Ethyl Acetate
Concen: 48.438 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.6
70	11.0	8.4	12.6

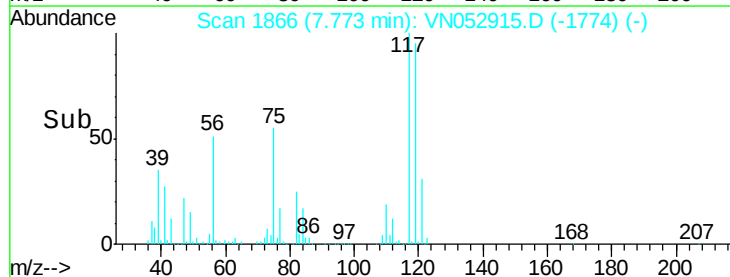
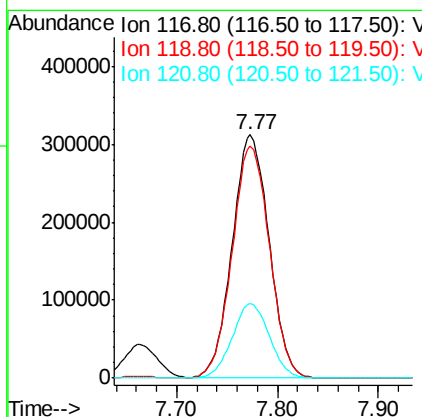
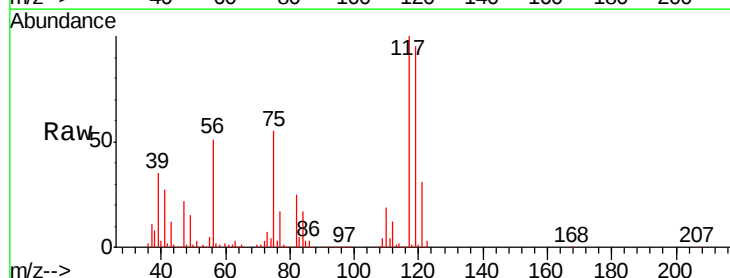
Manual Integrations
APPROVED

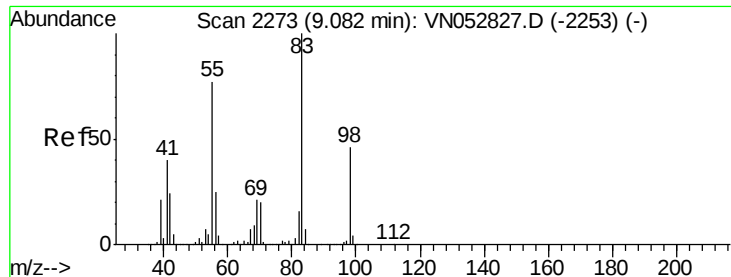
MMDadoda
12/18/2018 1:32:59 PM



#38
Carbon Tetrachloride
Concen: 53.676 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	77.1	115.7
121	30.7	24.9	37.3





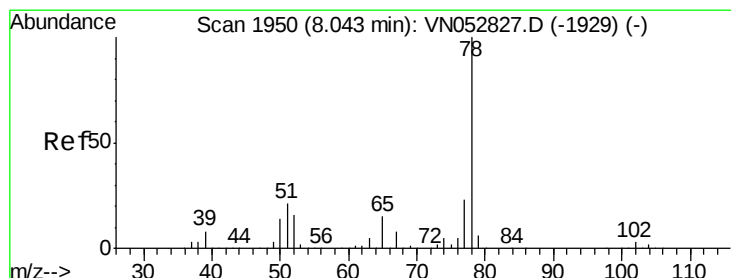
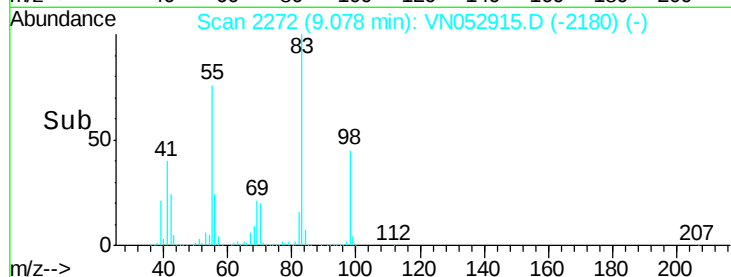
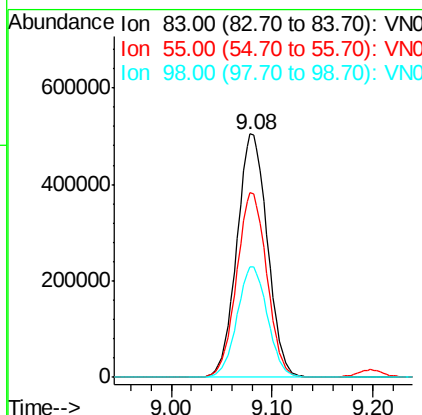
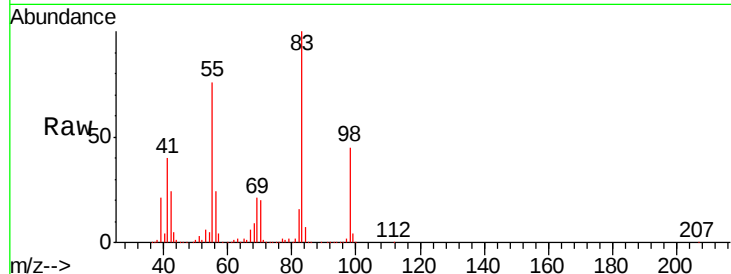
#39
Methylcyclohexane
Concen: 53.707 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 1055943
Ion Ratio Lower Upper
83 100
55 76.0 61.3 91.9
98 45.2 37.0 55.4

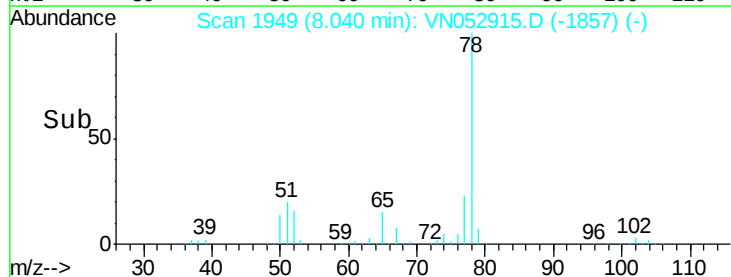
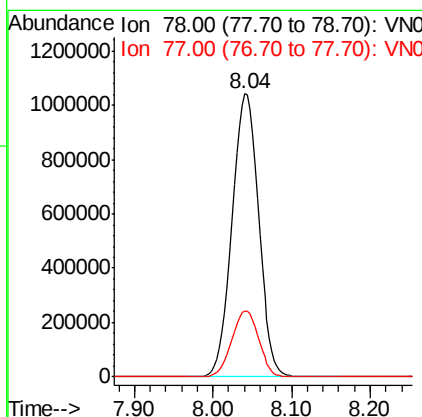
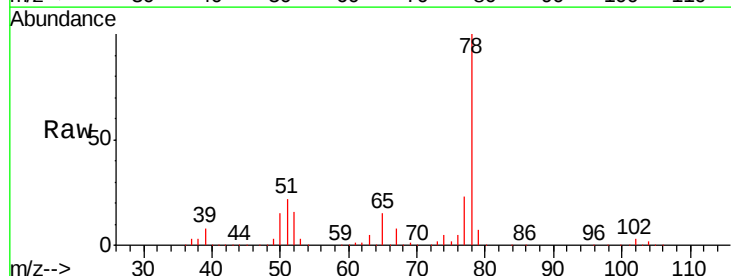
Manual Integrations
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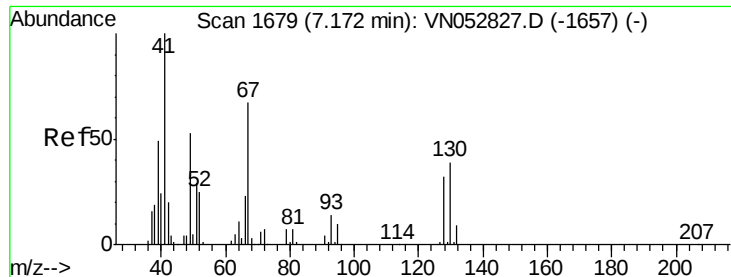
MMDadoda
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#40
Benzene
Concen: 51.060 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 78 Resp: 2455319
Ion Ratio Lower Upper
78 100
77 23.4 18.5 27.7





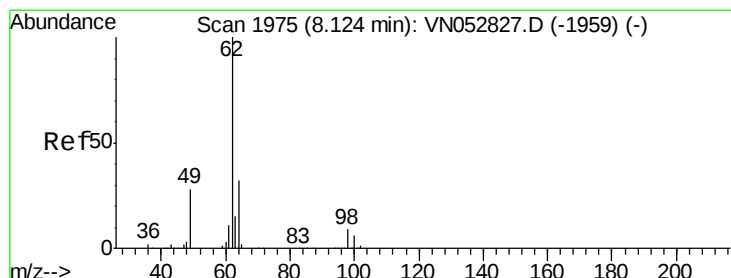
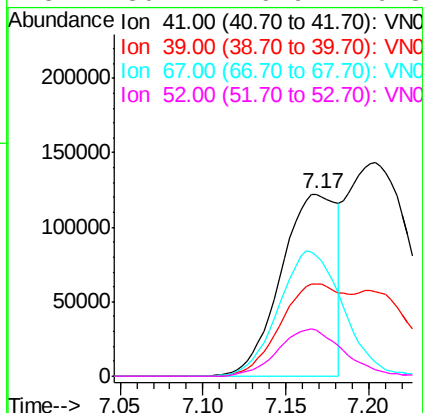
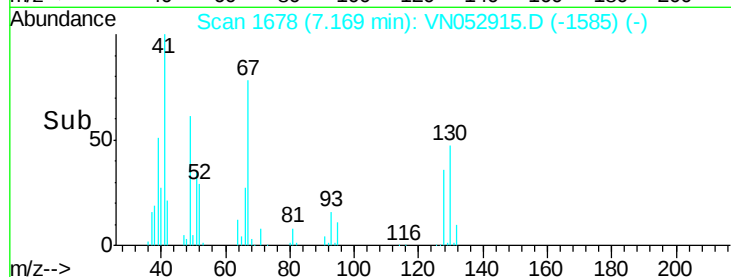
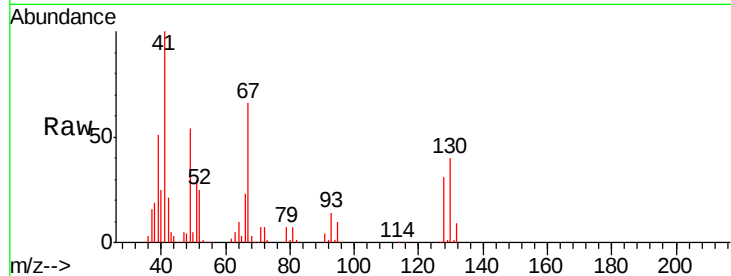
#41
Methacrylonitrile
Concen: 53.349 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
41	100		
39	58.3	48.0	72.0
67	80.2	70.3	105.5
52	30.2	26.9	40.3

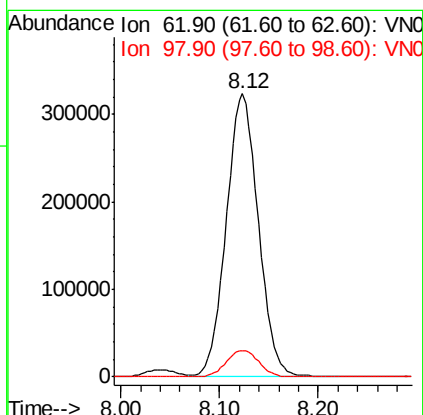
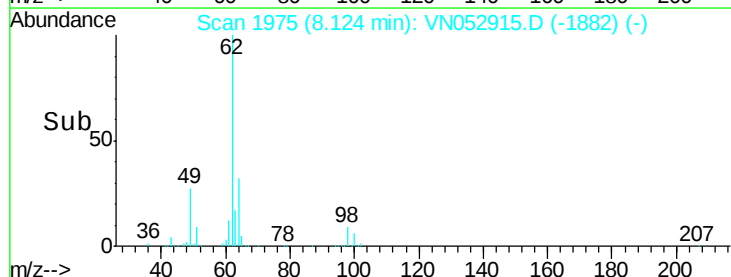
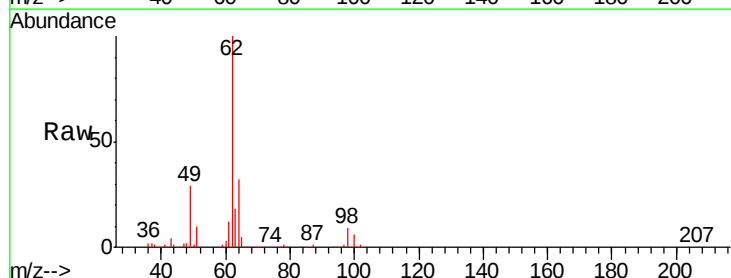
Manual Integrations
APPROVED

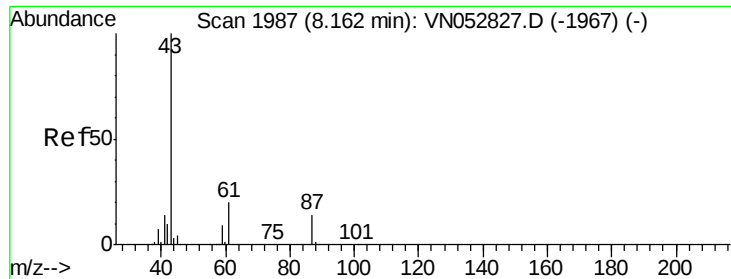
MMDadoda
12/18/2018 1:32:59 PM



#42
1,2-Dichloroethane
Concen: 50.602 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.0





#43

Isopropyl Acetate

Concen: 43.145 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

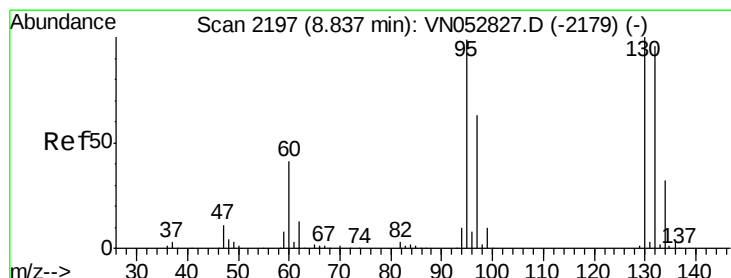
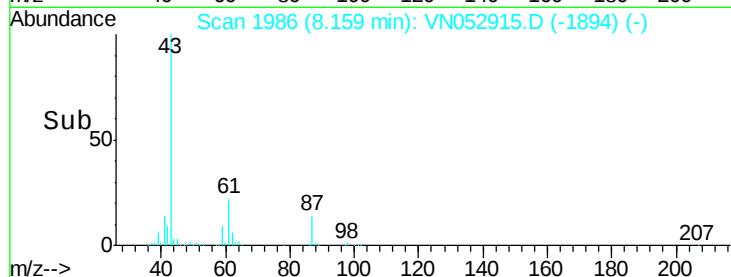
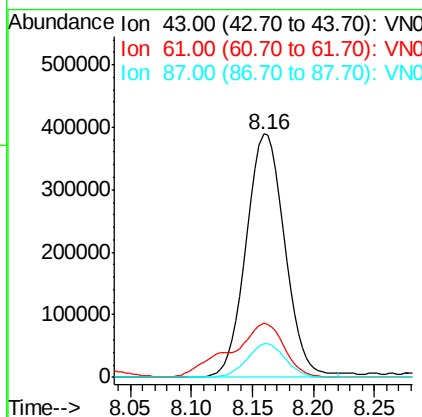
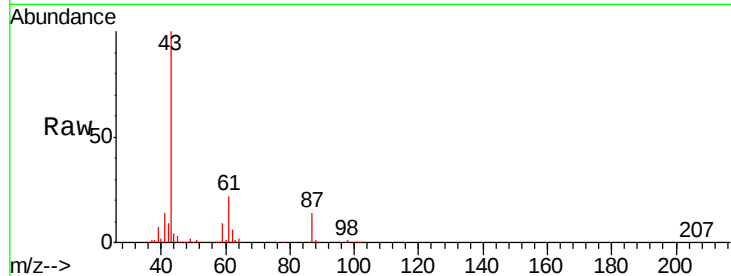
ClientSampleId :

VSTDCCC050

Tgt Ion:	43	Resp:	851409
Ion	Ratio	Lower	Upper
43	100		
61	30.6	22.9	34.3
87	13.7	10.6	15.8

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#44

Trichloroethene

Concen: 55.997 ug/l

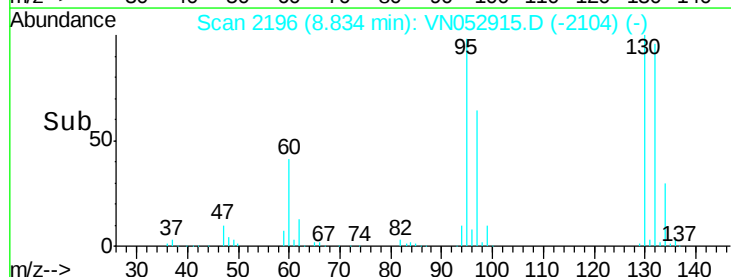
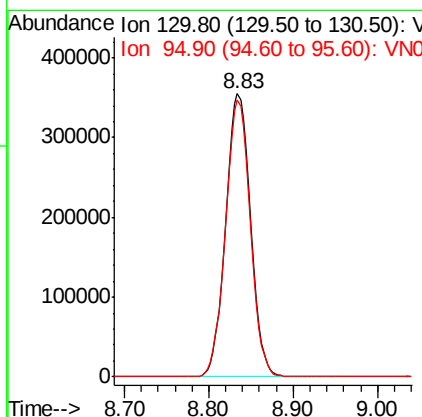
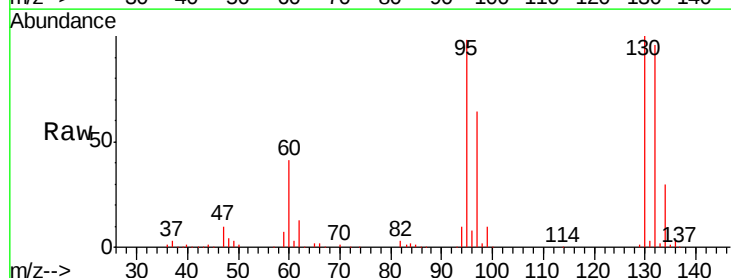
RT: 8.83 min Scan# 2196

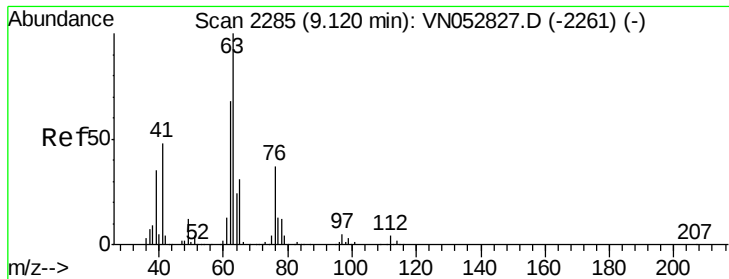
Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Tgt Ion:	130	Resp:	727329
Ion	Ratio	Lower	Upper
130	100		
95	97.6	0.0	197.8





#45

1,2-Dichloropropane

Concen: 51.603 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 649950

Ion Ratio Lower Upper

63 100

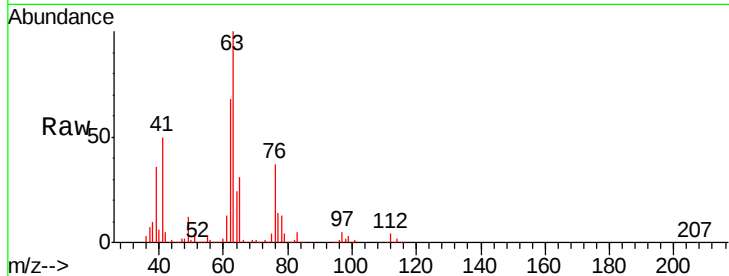
65 30.7 24.6 37.0

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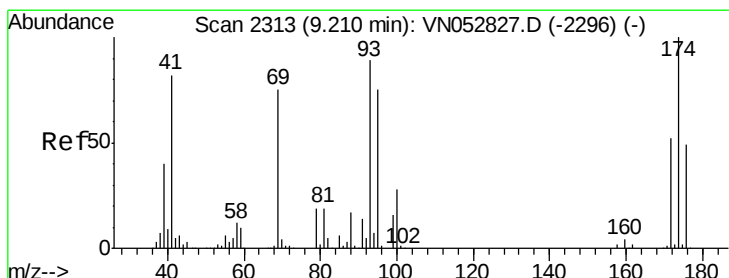
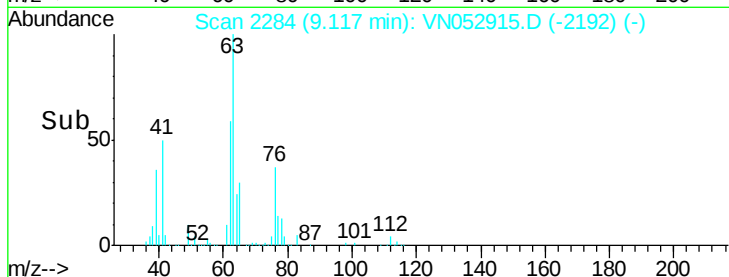
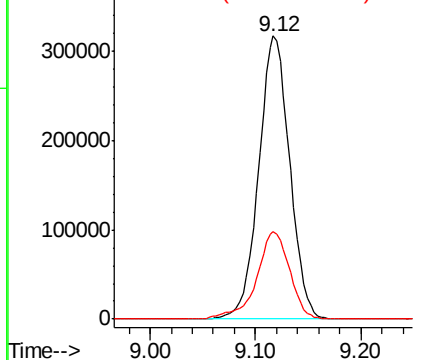
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 50.564 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

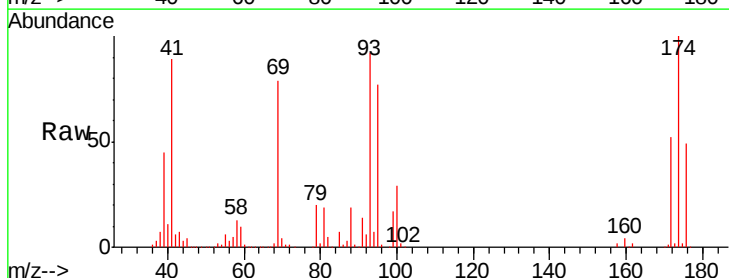
Tgt Ion: 93 Resp: 369344

Ion Ratio Lower Upper

93 100

95 84.4 67.8 101.6

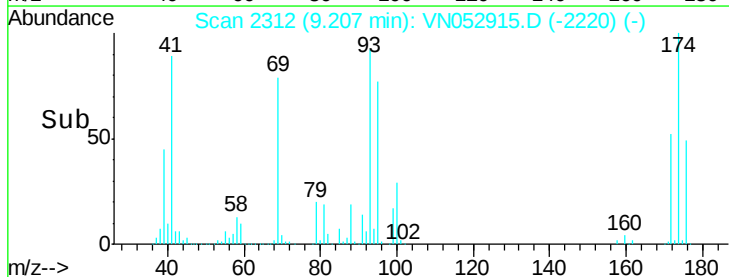
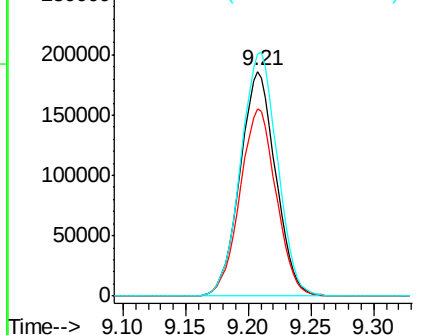
174 111.5 89.0 133.4

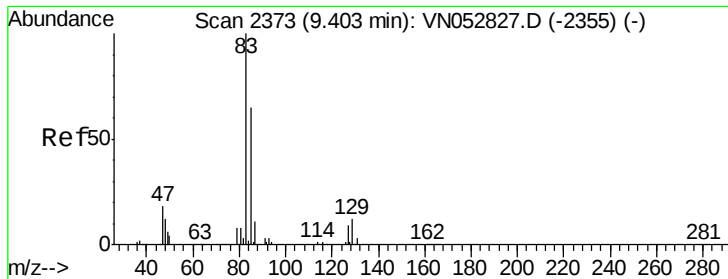


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 54.040 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

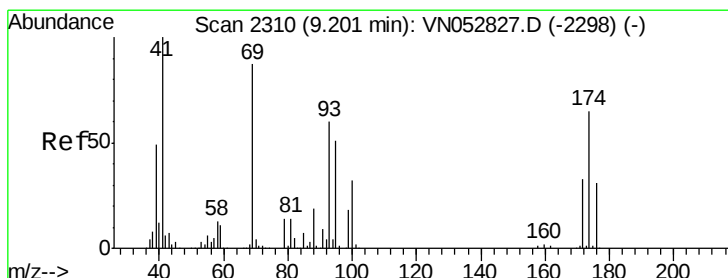
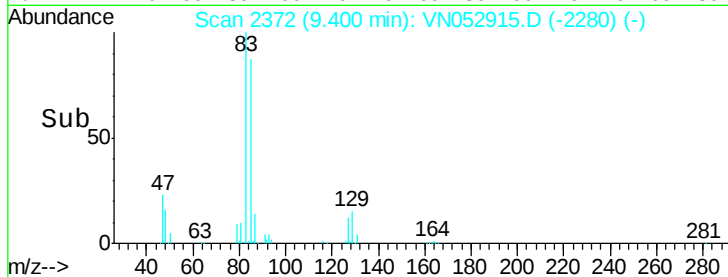
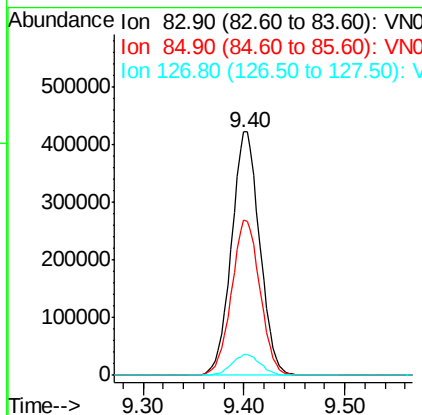
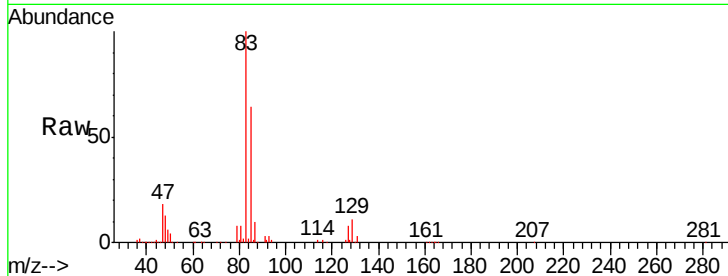
ClientSampleId :

VSTDCCC050

Tgt Ion:	83	Resp:	818557
Ion Ratio	Lower	Upper	
83	100		
85	63.6	51.6	77.4
127	8.5	7.1	10.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 51.184 ug/l

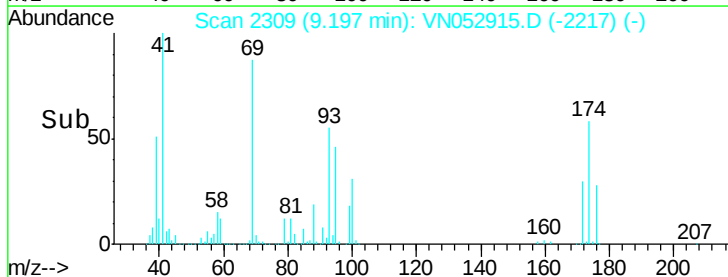
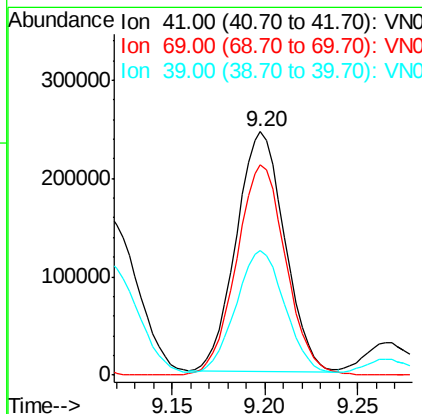
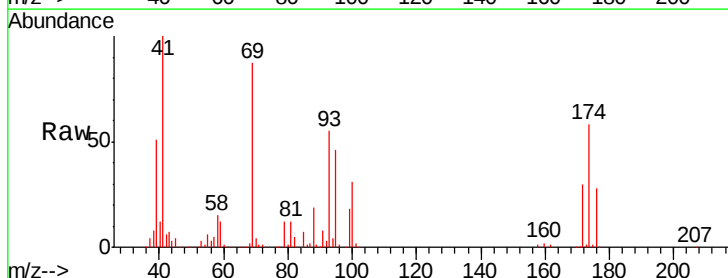
RT: 9.20 min Scan# 2309

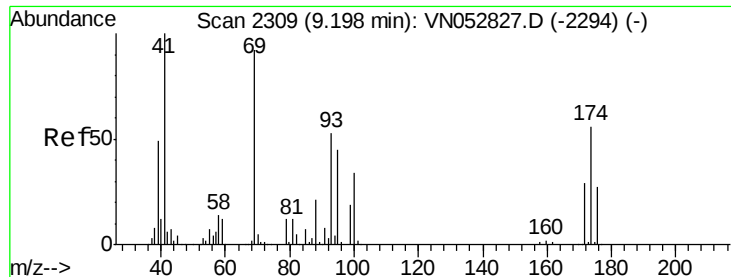
Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Tgt Ion:	41	Resp:	442949
Ion Ratio	Lower	Upper	
41	100		
69	89.4	72.2	108.2
39	53.1	41.9	62.9





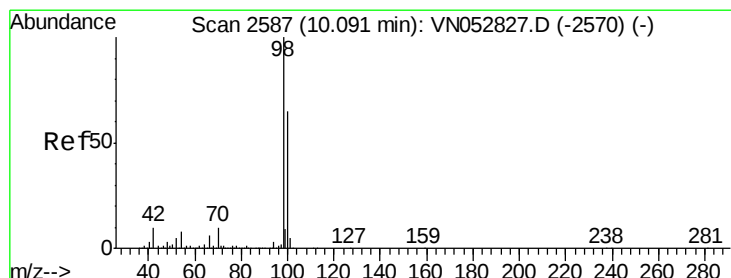
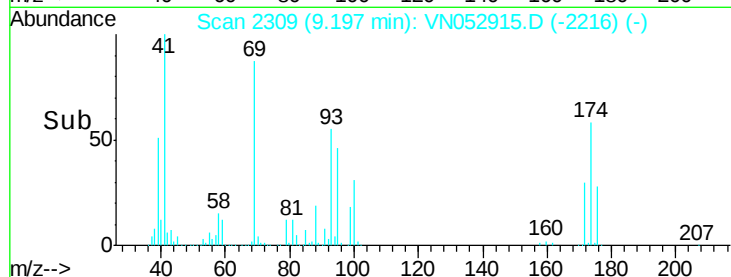
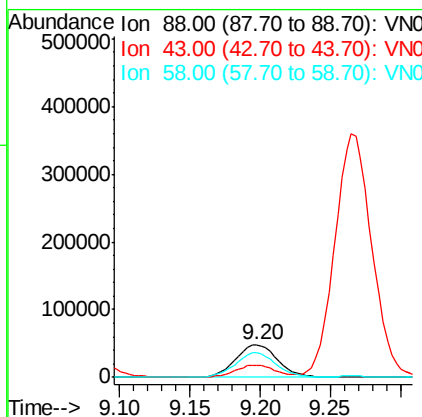
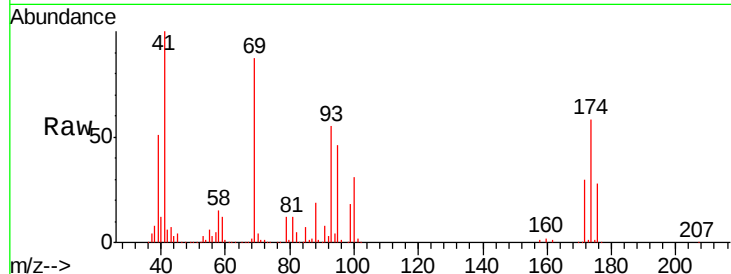
#49
1,4-Dioxane
Concen: 1027.130 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	100895		
43	34.5	26.6	40.0	
58	72.8	58.4	87.6	

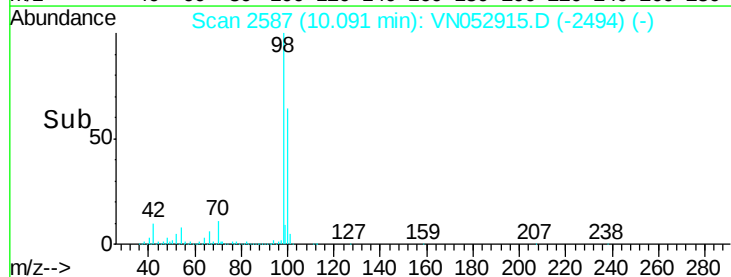
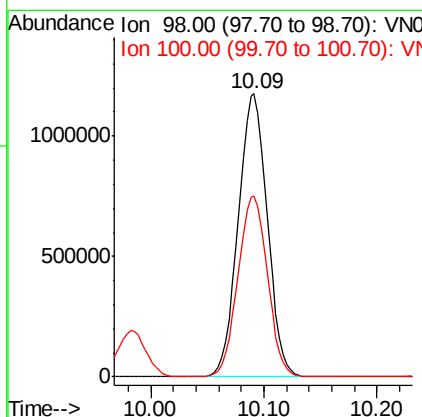
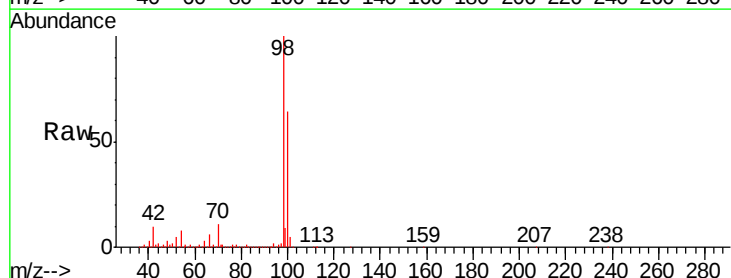
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#50
Toluene-d8
Concen: 1027.130 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.6	77.4





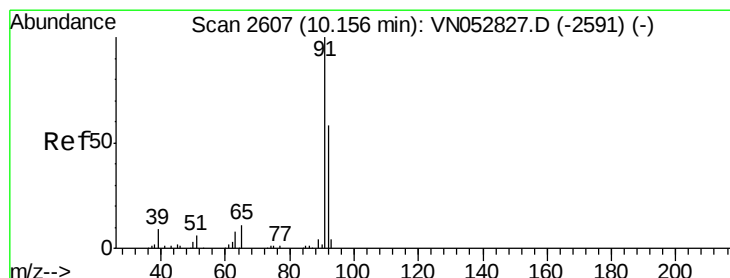
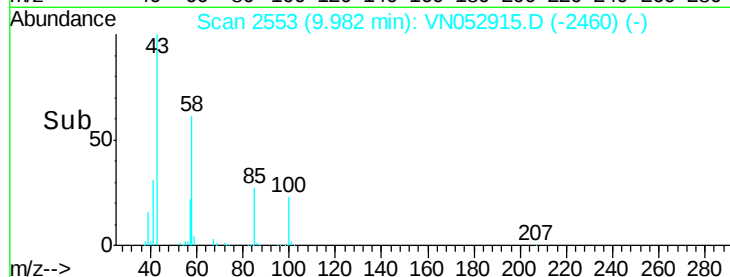
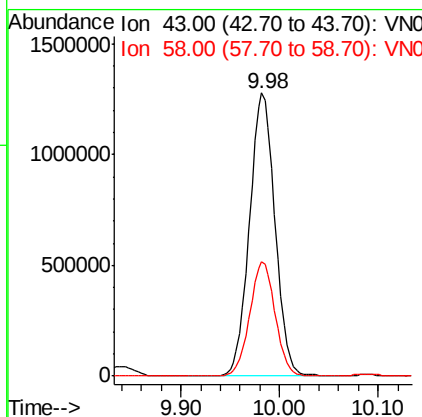
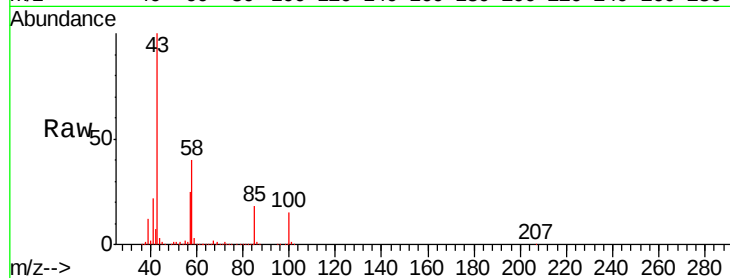
#51
4-Methyl-2-Pentanone
Concen: 250.975 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 2270980
Ion Ratio Lower Upper
43 100
58 40.3 32.2 48.4

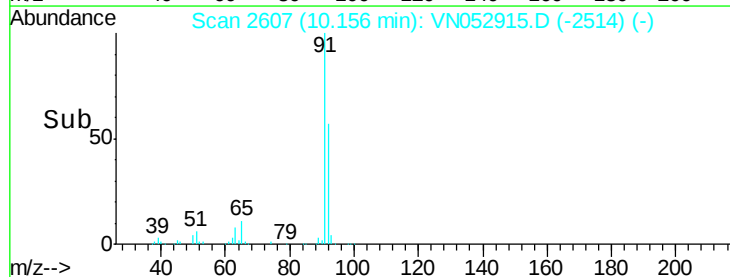
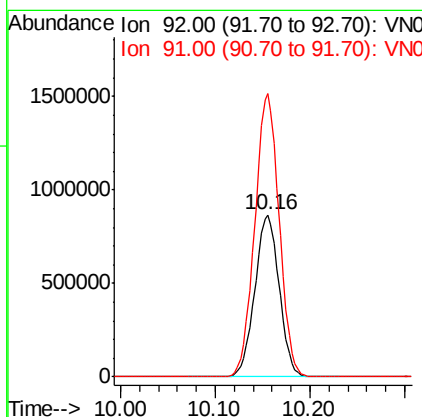
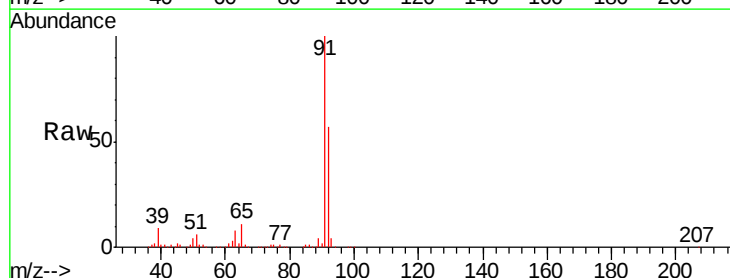
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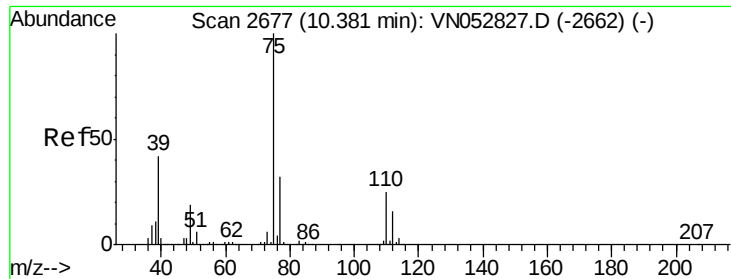
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#52
Toluene
Concen: 52.979 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 92 Resp: 1542985
Ion Ratio Lower Upper
92 100
91 175.4 139.8 209.6





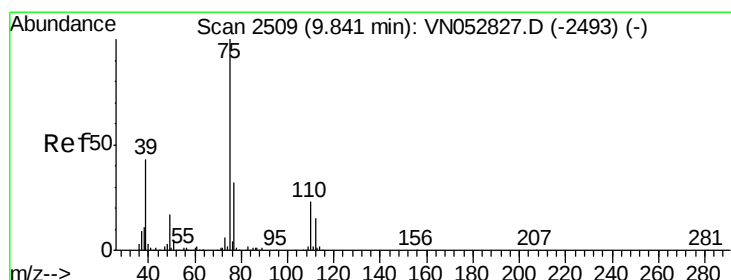
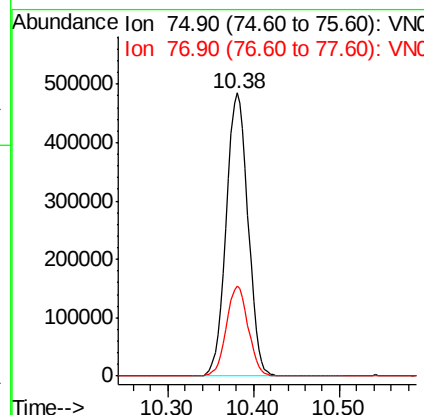
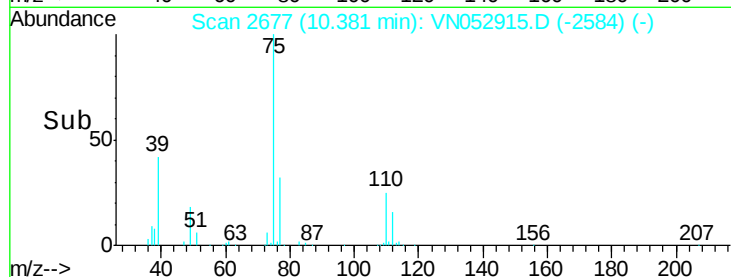
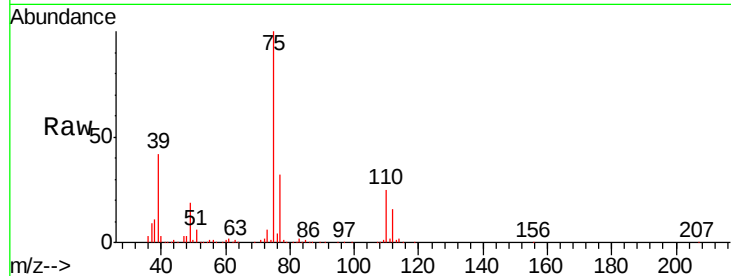
#53
 t-1,3-Dichloropropene
 Concen: 56.131 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 75 Resp: 855577
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.6 38.4

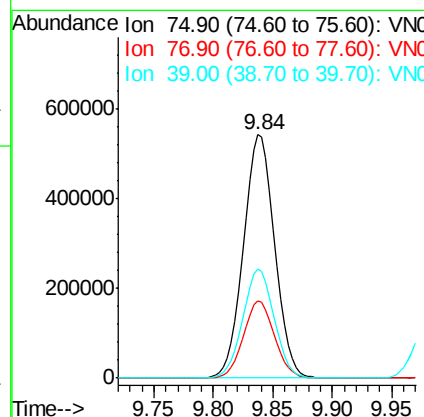
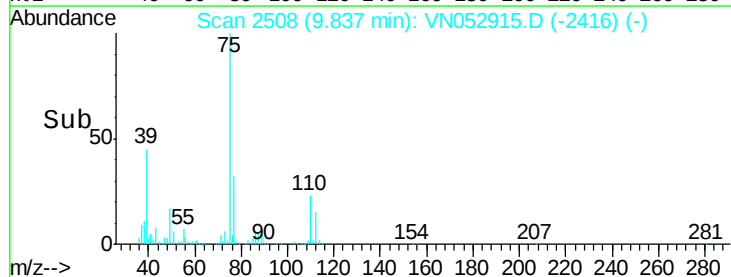
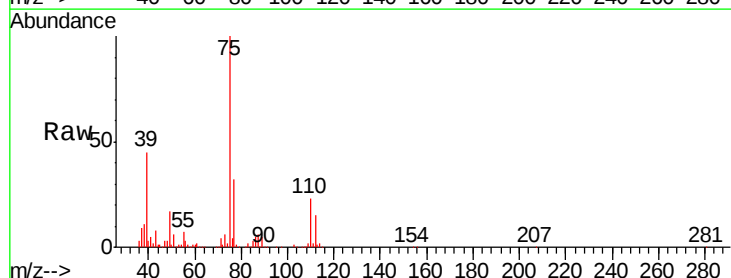
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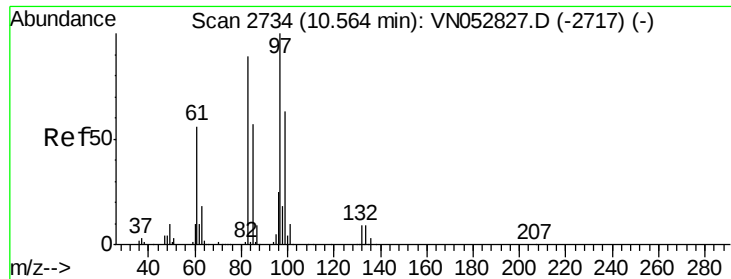
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#54
 cis-1,3-Dichloropropene
 Concen: 54.235 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 75 Resp: 985078
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.8 38.8
 39 44.9 34.8 52.2





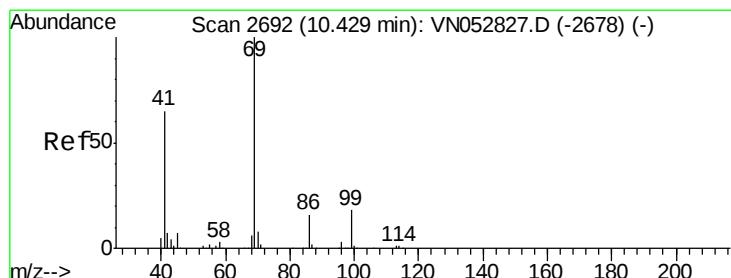
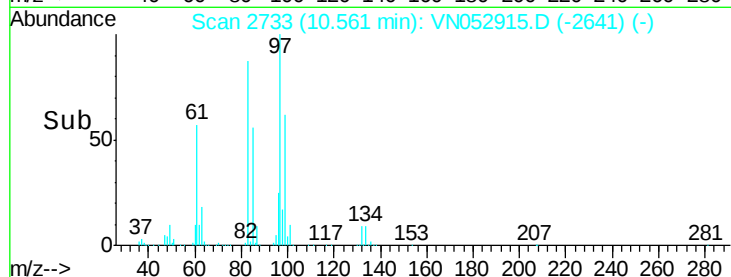
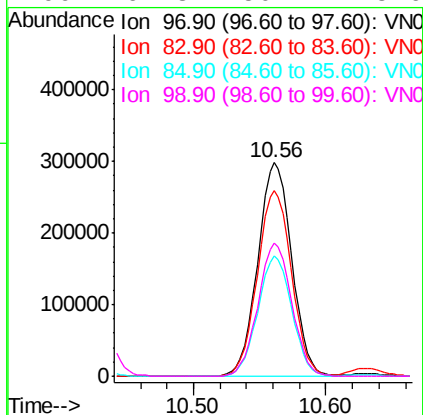
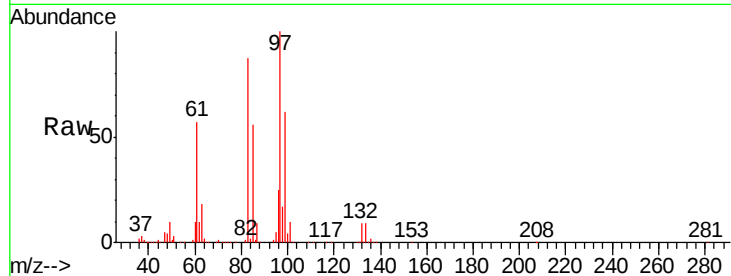
#55
 1,1,2-Trichloroethane
 Concen: 51.227 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:	97	Resp:	532587
Ion	Ratio	Lower	Upper
97	100		
83	87.1	70.9	106.3
85	56.1	45.4	68.2
99	62.3	50.4	75.6

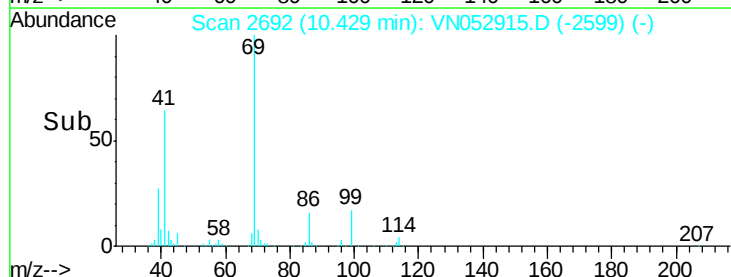
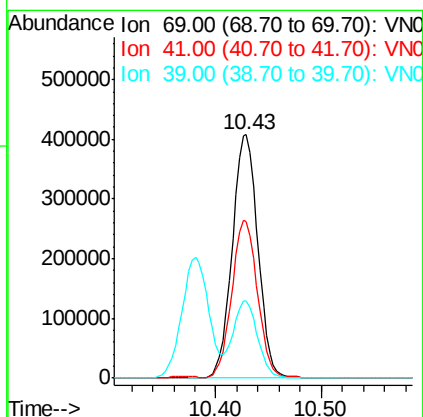
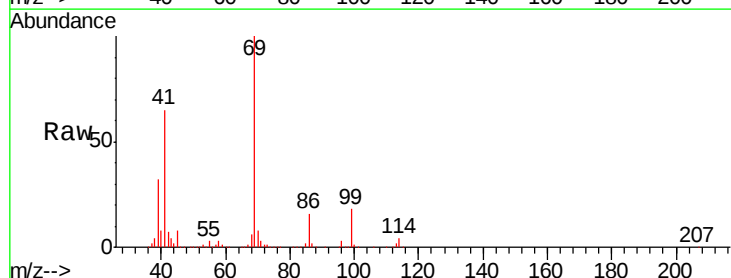
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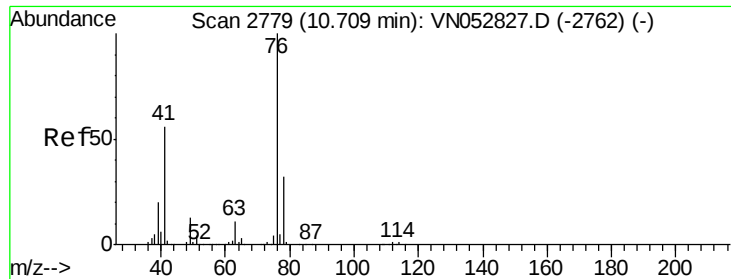
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#56
 Ethyl methacrylate
 Concen: 51.366 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion:	69	Resp:	685338
Ion	Ratio	Lower	Upper
69	100		
41	64.3	51.7	77.5
39	30.5	24.6	37.0





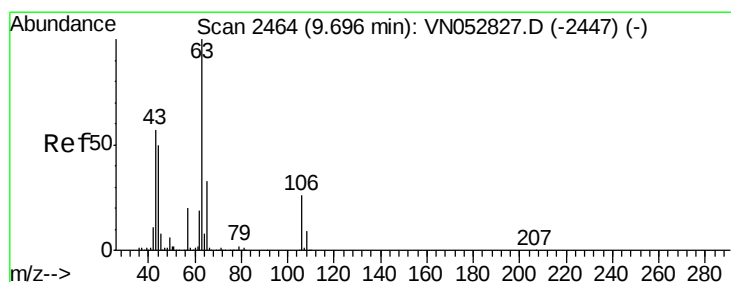
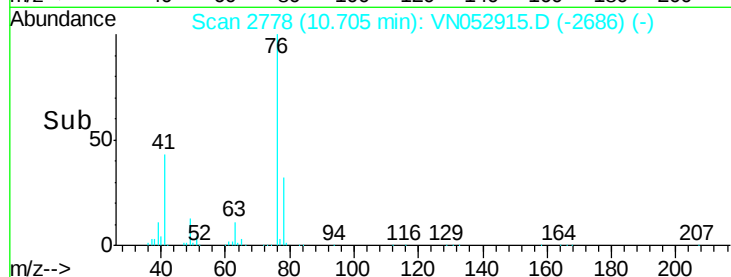
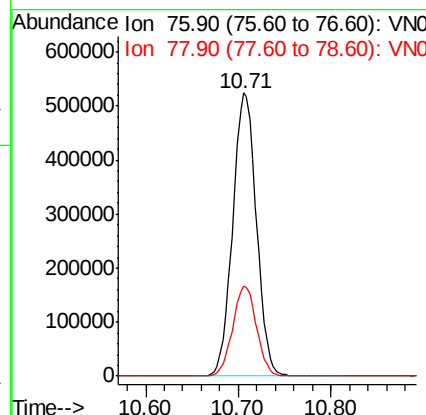
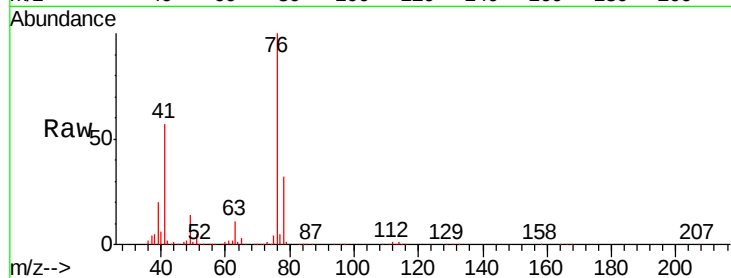
#57
 1,3-Dichloropropane
 Concen: 51.948 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 76 Resp: 926145
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.8 38.8

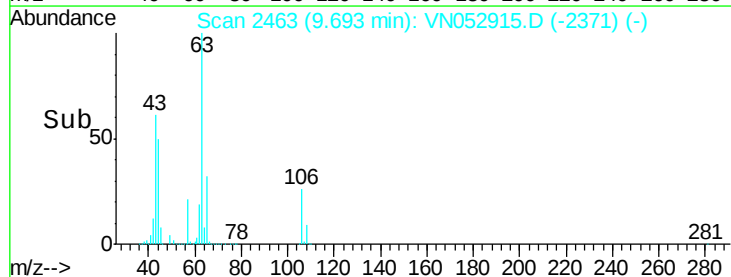
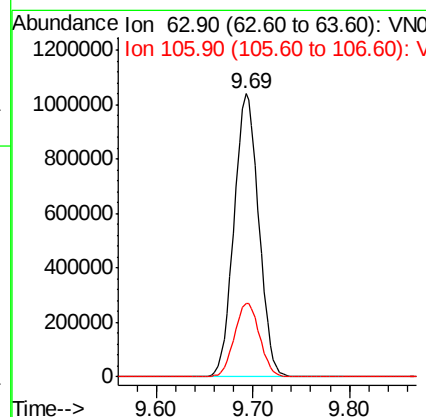
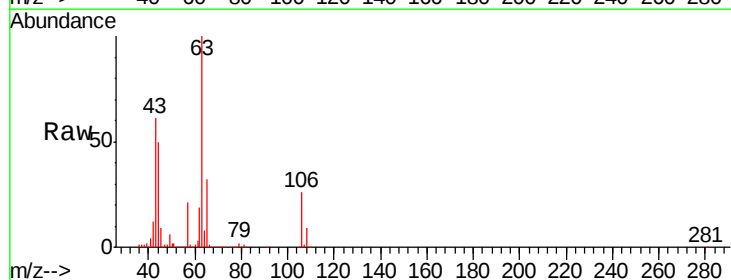
Manual Integrations
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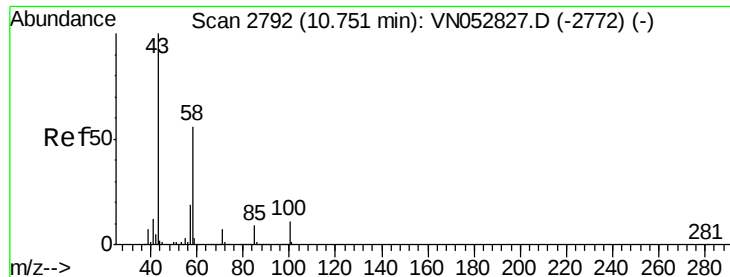
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#58
 2-Chloroethyl Vinyl ether
 Concen: 247.561 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 63 Resp: 1843024
 Ion Ratio Lower Upper
 63 100
 106 26.5 21.0 31.6





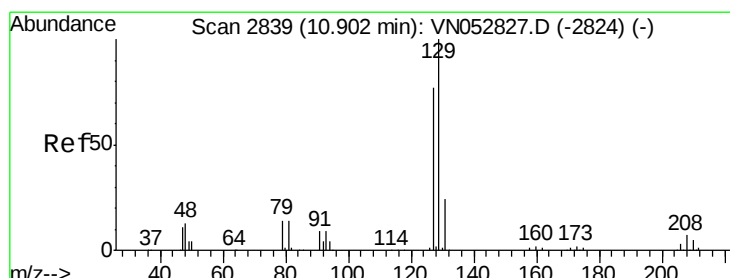
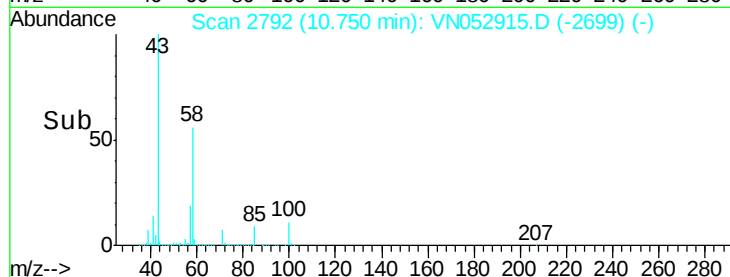
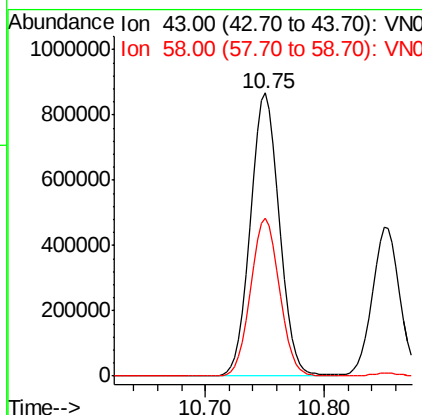
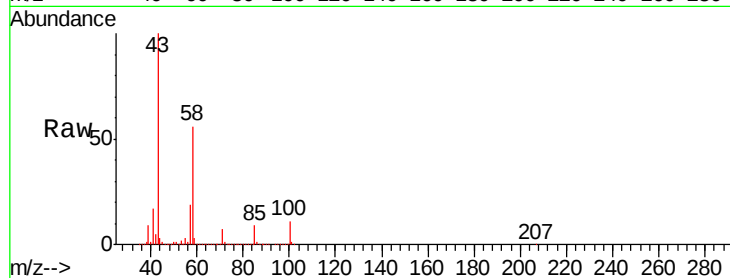
#59
2-Hexanone
Concen: 235.273 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1458970
Ion Ratio Lower Upper
43 100
58 55.9 28.1 84.3

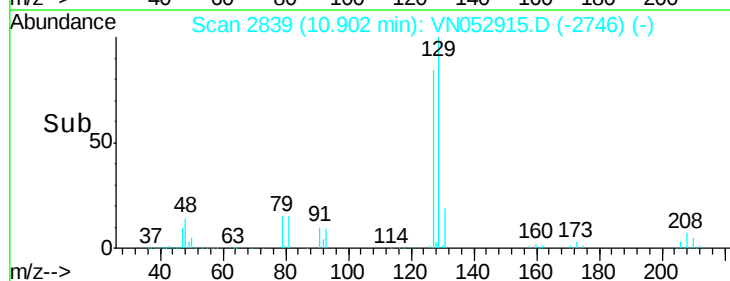
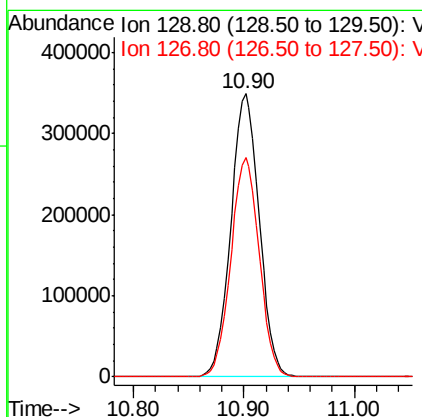
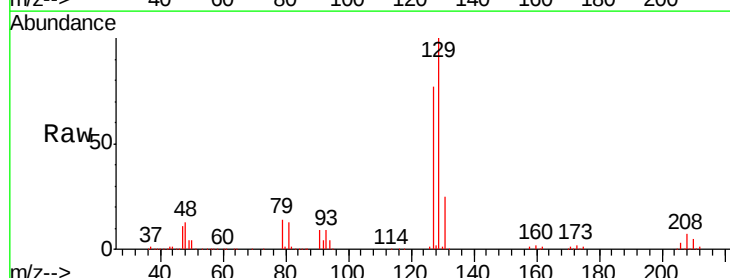
Manual Integrations
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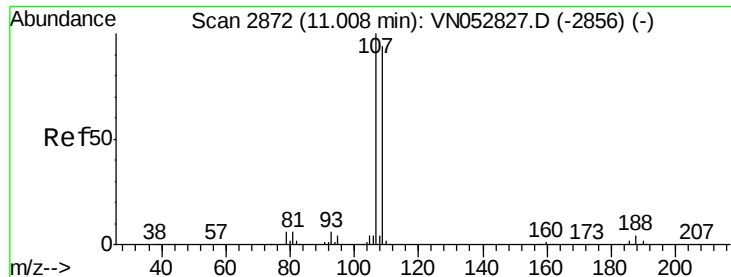
MMDadoda
12/18/2018 1:32:59 PM



#60
Dibromochloromethane
Concen: 55.398 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 129 Resp: 622463
Ion Ratio Lower Upper
129 100
127 77.4 38.6 116.0





#61

1,2-Dibromoethane

Concen: 52.290 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 107 Resp: 537362

Ion Ratio Lower Upper

107 100

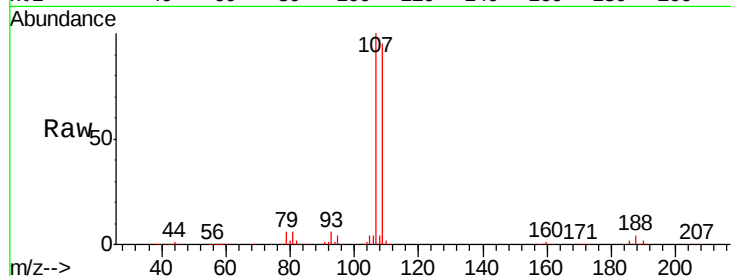
109 94.0 75.4 113.0

Manual Integrations

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

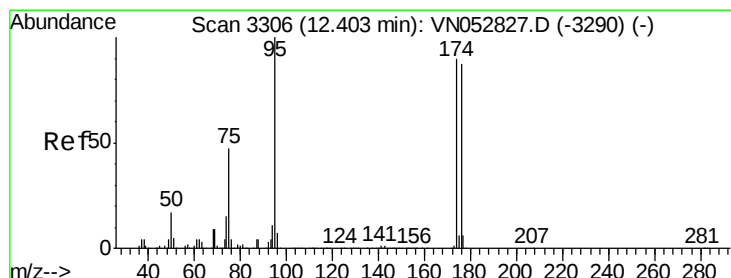
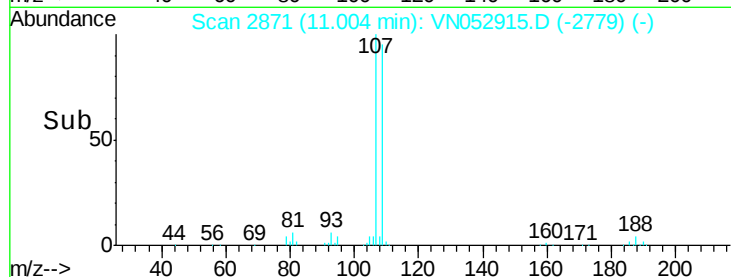
300000

200000

100000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 52.290 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

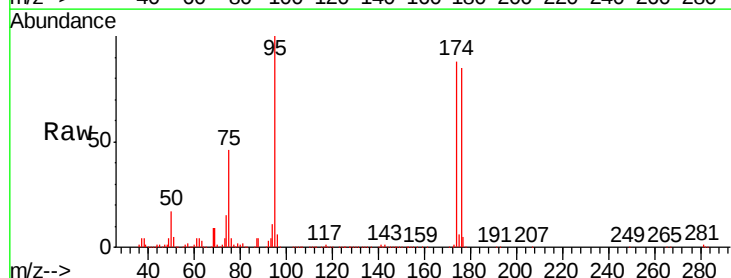
Tgt Ion: 95 Resp: 746806

Ion Ratio Lower Upper

95 100

174 88.4 0.0 178.8

176 85.8 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

600000

500000

400000

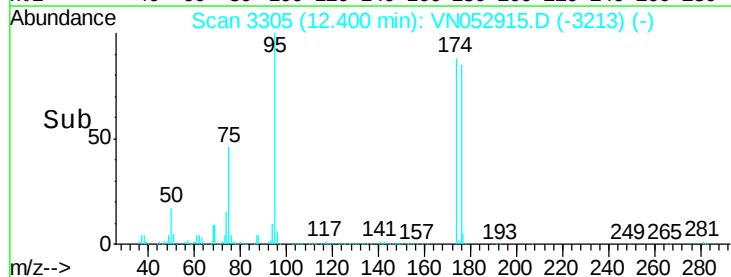
300000

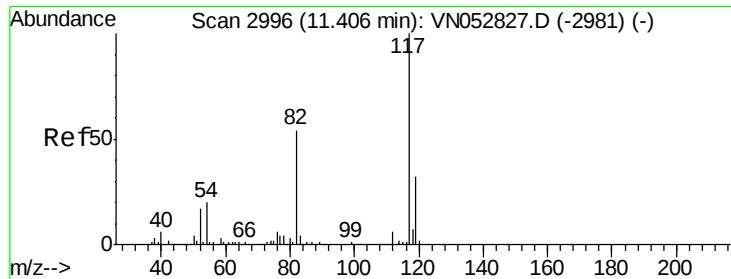
200000

100000

0

Time--> 12.30 12.40





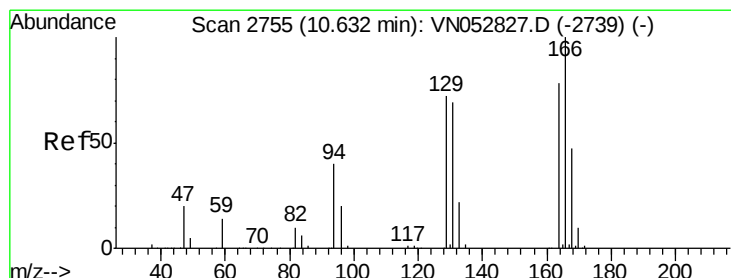
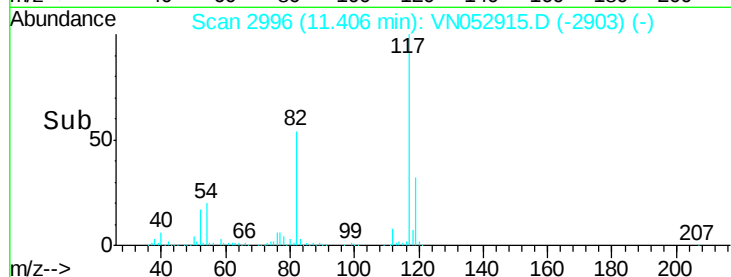
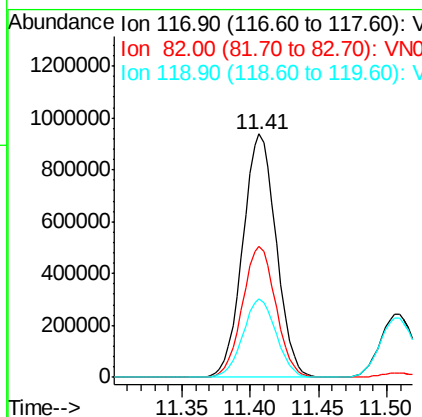
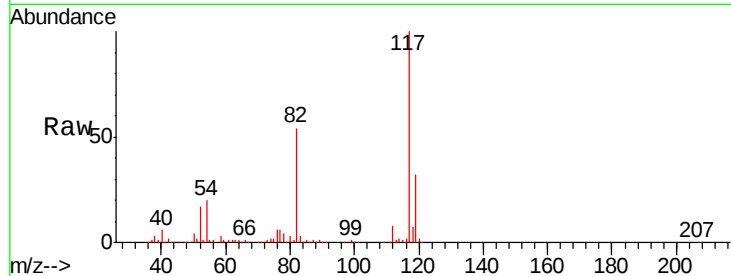
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 1595359
Ion Ratio Lower Upper
117 100
82 53.7 42.8 64.2
119 32.1 25.5 38.3

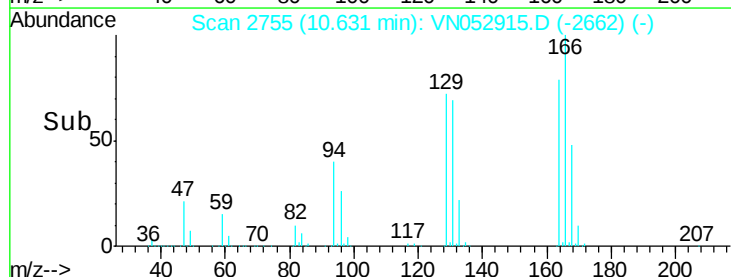
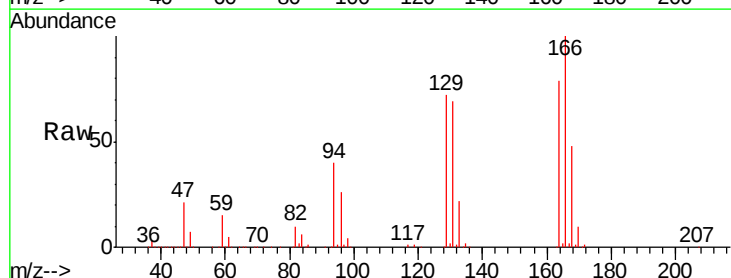
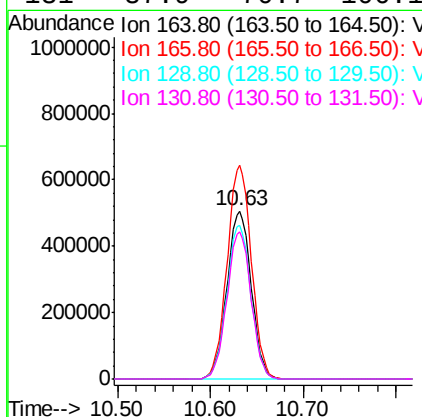
Manual Integrations
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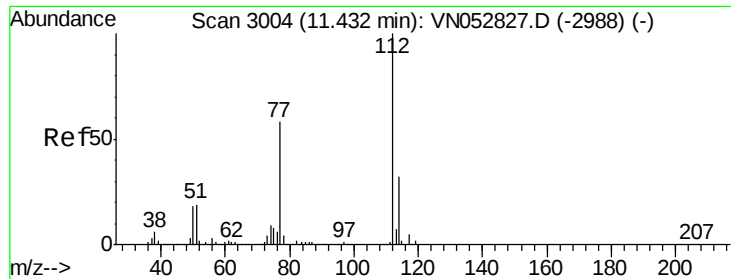
MMDadoda
12/18/2018 1:32:59 PM



#64
Tetrachloroethene
Concen: 66.858 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion:164 Resp: 916739
Ion Ratio Lower Upper
164 100
166 127.2 102.9 154.3
129 91.9 73.7 110.5
131 87.9 70.7 106.1





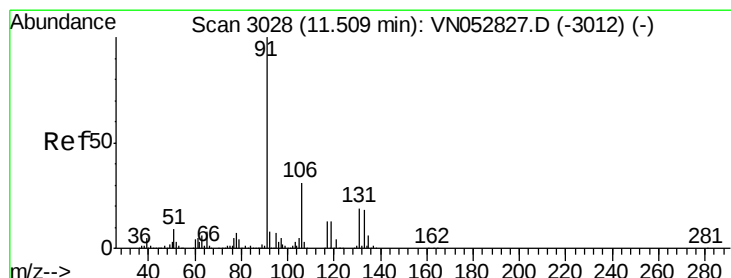
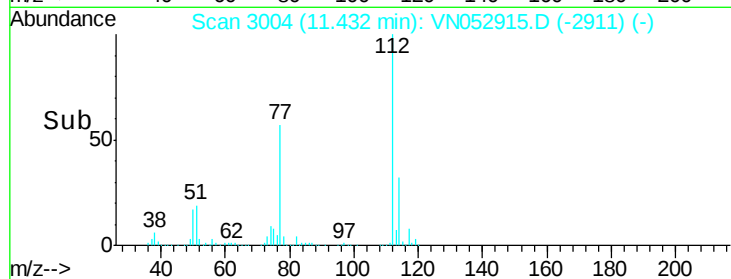
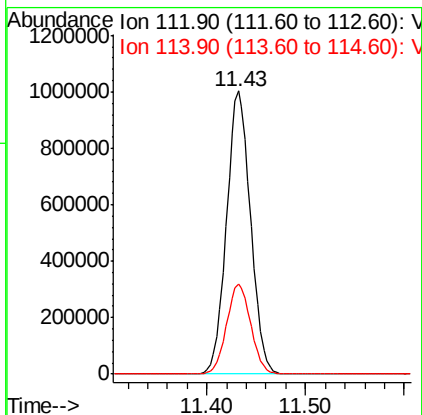
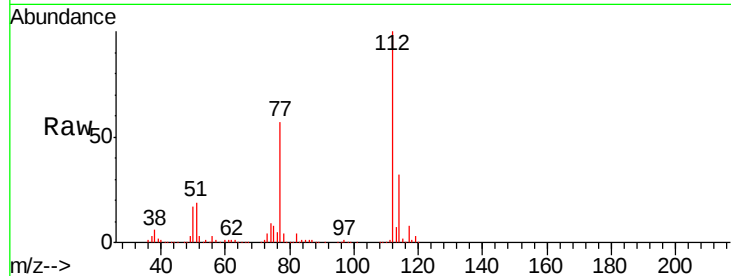
#65
Chlorobenzene
Concen: 51.572 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 1706925
Ion Ratio Lower Upper
112 100
114 31.8 25.5 38.3

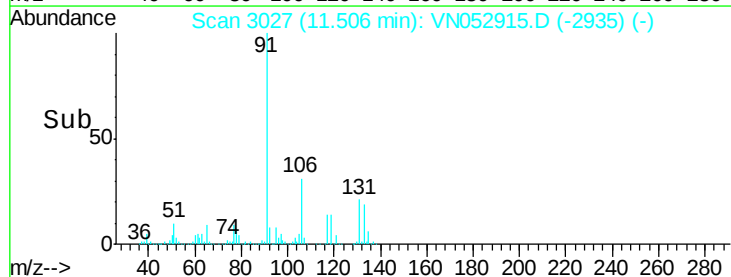
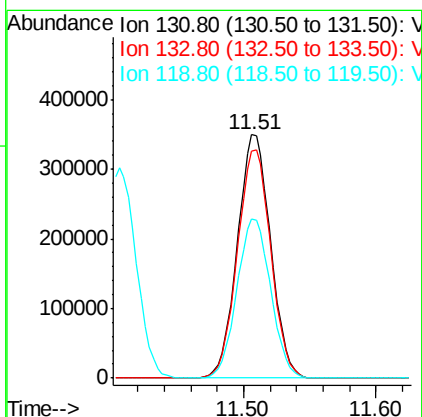
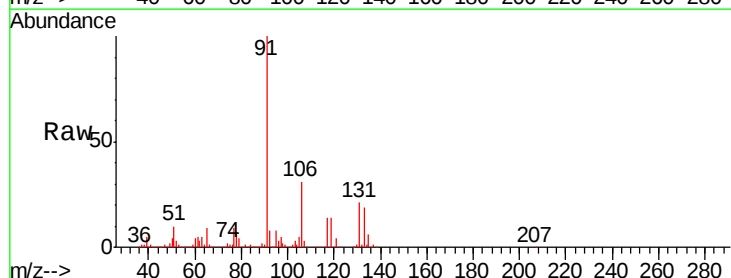
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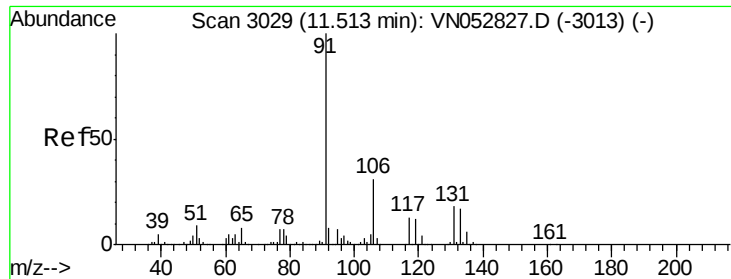
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 52.597 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion:131 Resp: 605447
Ion Ratio Lower Upper
131 100
133 94.8 47.6 142.9
119 66.6 33.3 99.8





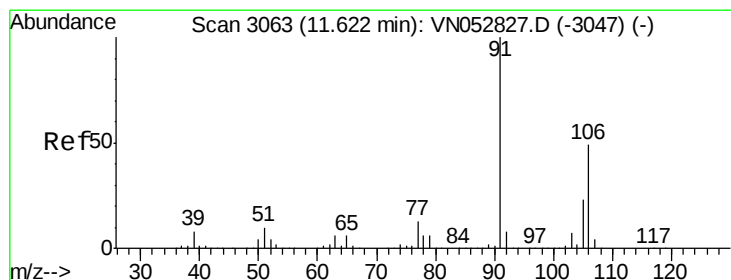
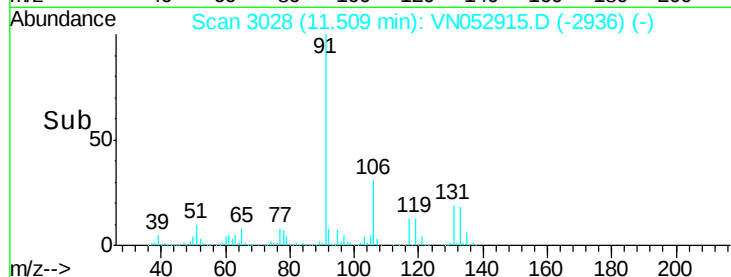
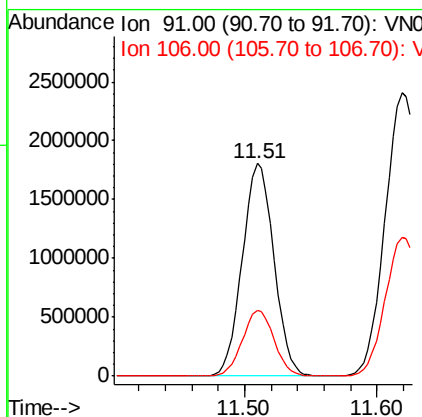
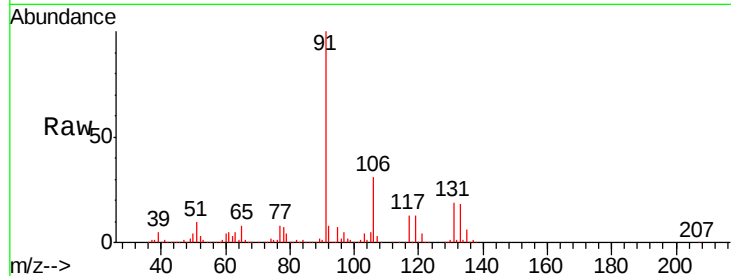
#67
Ethyl Benzene
Concen: 52.662 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 2993253
Ion Ratio Lower Upper
91 100
106 30.9 24.9 37.3

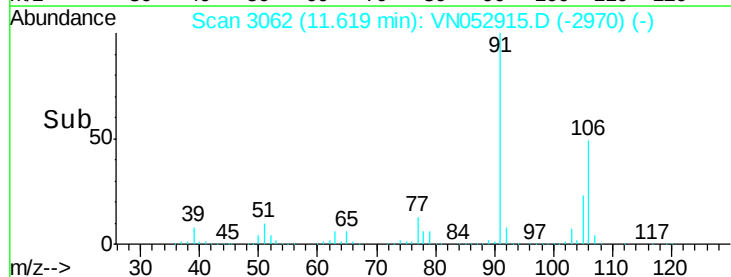
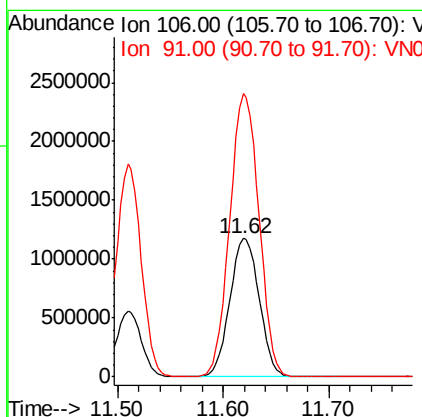
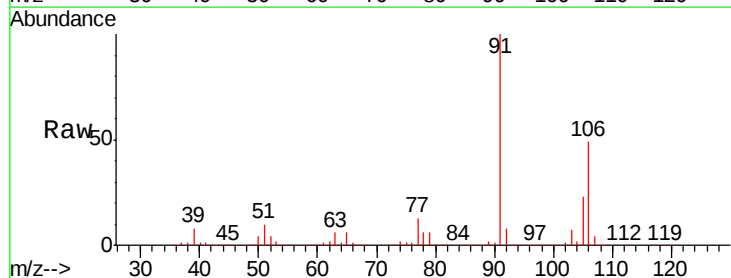
Manual Integrations
APPROVED

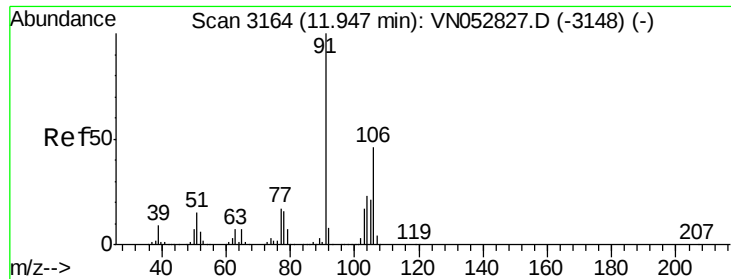
MMDadoda
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#68
m/p-Xylenes
Concen: 106.277 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 106 Resp: 2268238
Ion Ratio Lower Upper
106 100
91 203.3 162.2 243.4





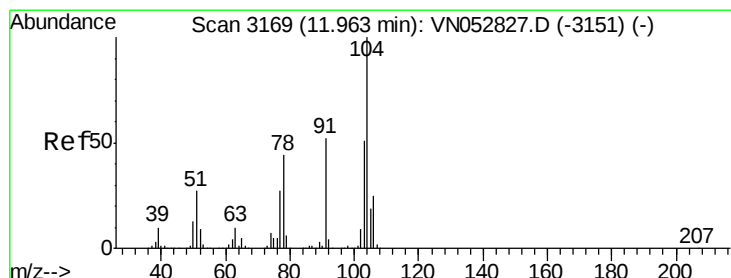
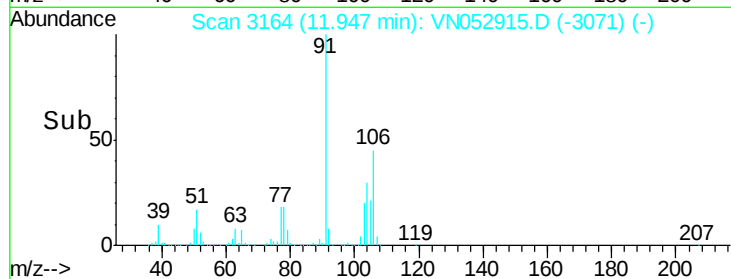
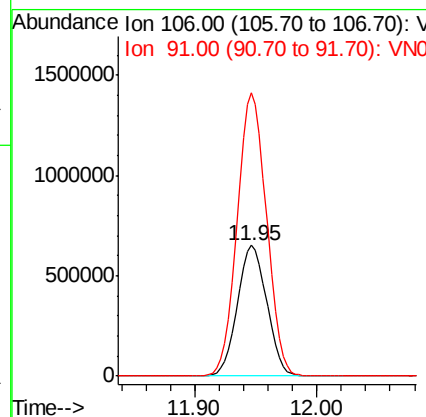
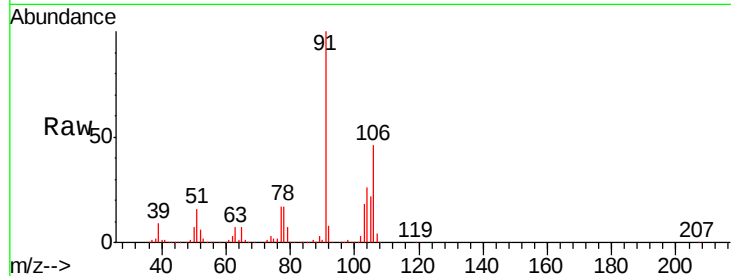
#69
o-Xylene
Concen: 52.181 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 1087486
Ion Ratio Lower Upper
106 100
91 215.8 106.6 319.8

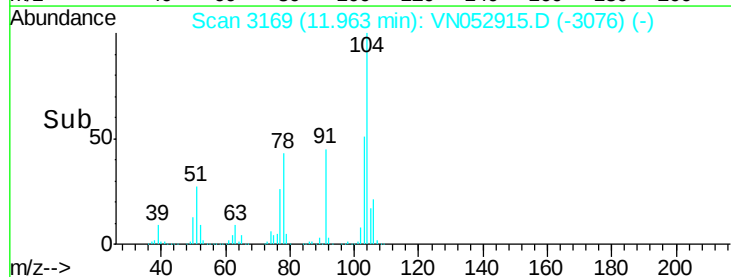
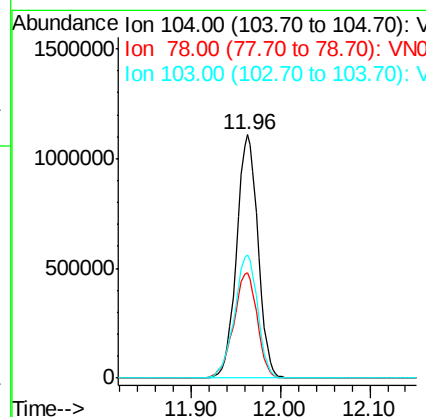
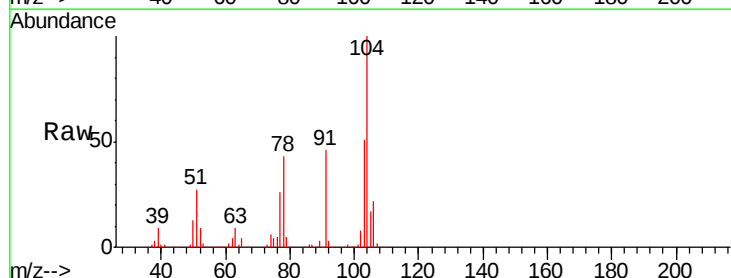
Manual Integrations
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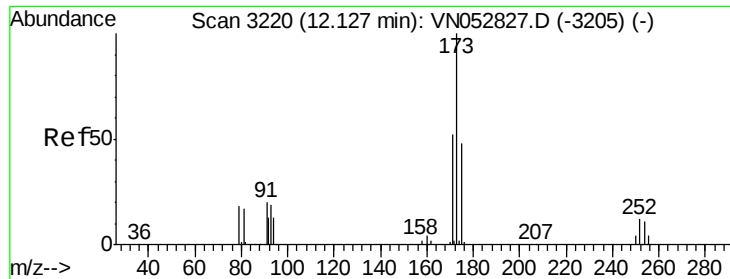
MMDadoda
12/18/2018 1:32:59 PM



#70
Styrene
Concen: 54.589 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion:104 Resp: 1828836
Ion Ratio Lower Upper
104 100
78 47.7 38.9 58.3
103 55.0 44.3 66.5





#71

Bromoform

Concen: 55.553 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:173 Resp: 434437
Ion Ratio Lower Upper

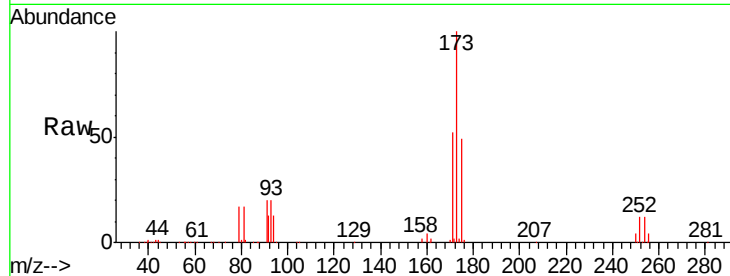
173 100

175 48.4 24.3 72.9

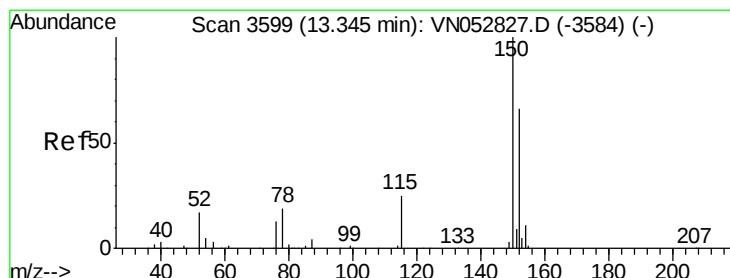
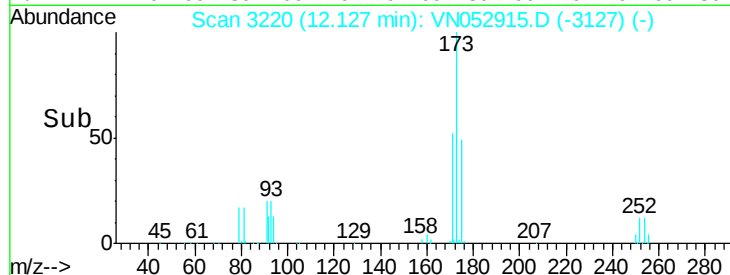
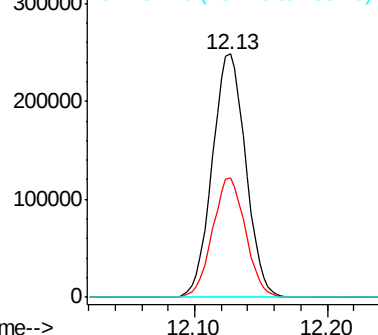
254 0.2 0.1 0.1#

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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: VN052915.D

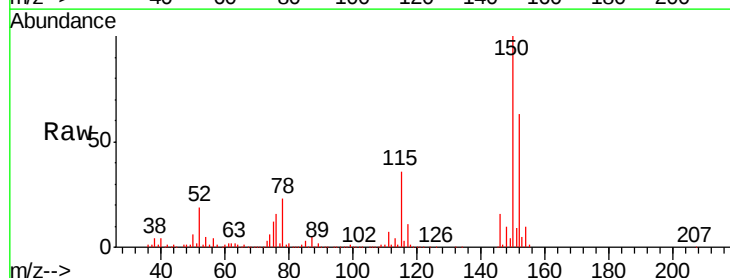
Acq: 17 Dec 2018 9:35

Tgt Ion:152 Resp: 746351
Ion Ratio Lower Upper

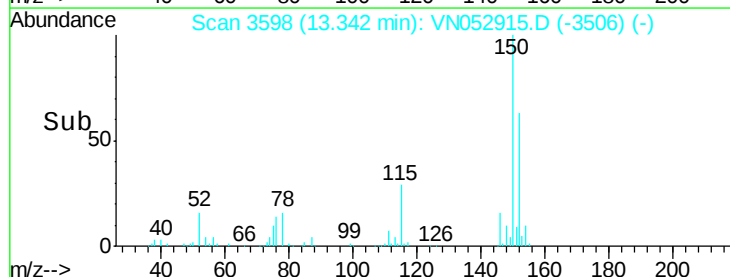
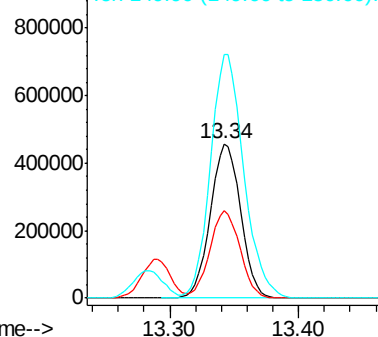
152 100

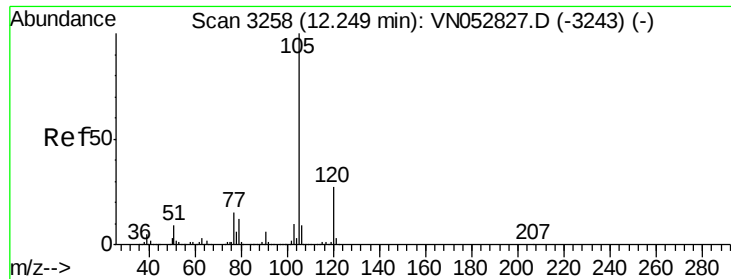
115 56.1 28.3 85.0

150 173.3 0.0 347.8



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: 52.847 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 2944910

Ion Ratio Lower Upper

105 100

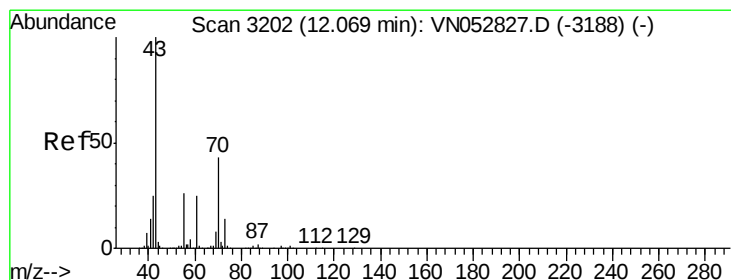
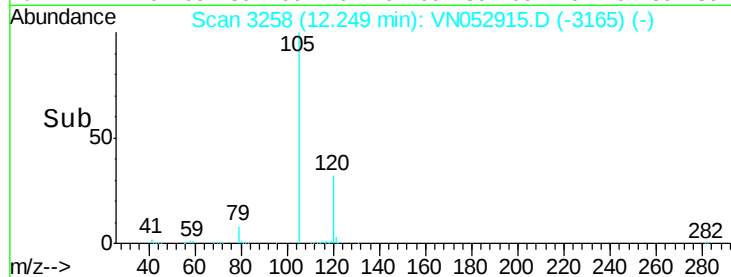
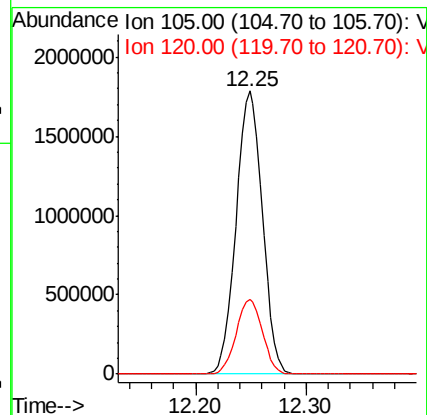
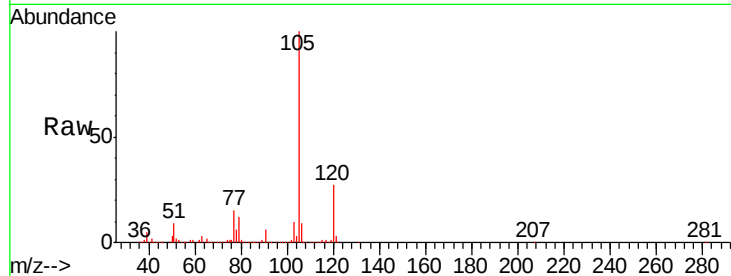
120 26.5 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 50.932 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Tgt Ion: 43 Resp: 779198

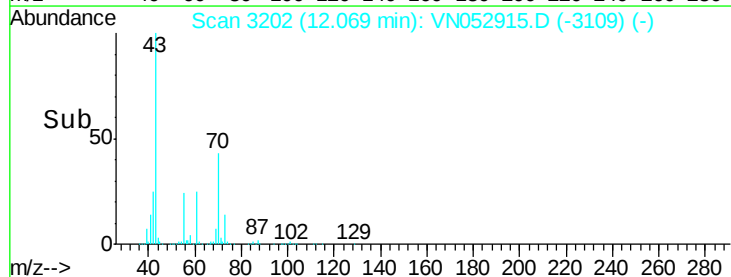
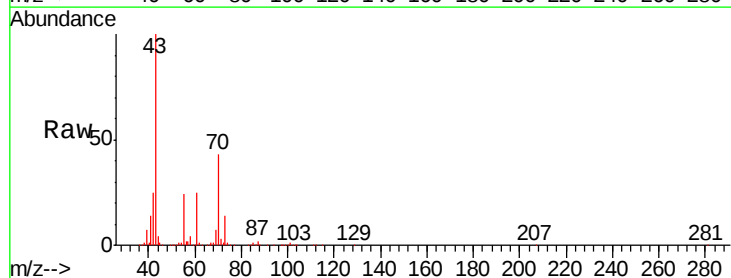
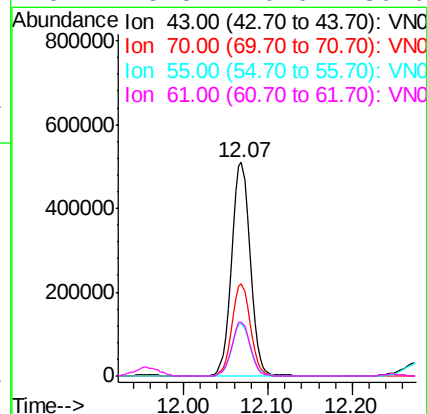
Ion Ratio Lower Upper

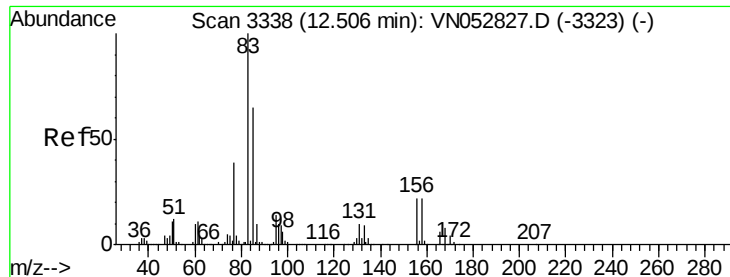
43 100

70 43.0 34.2 51.4

55 24.5 20.3 30.5

61 25.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 38.863 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 485358
Ion Ratio Lower Upper

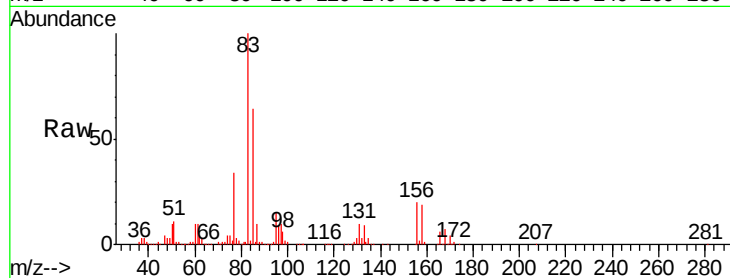
83 100

131 10.4 5.2 15.6

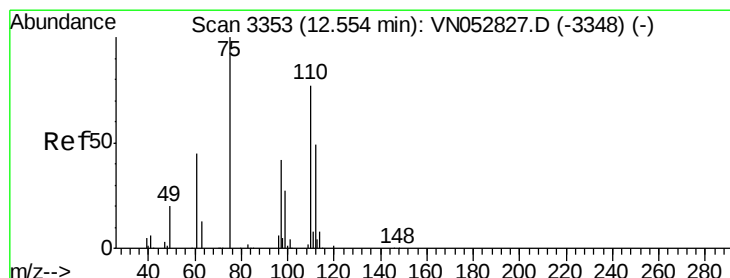
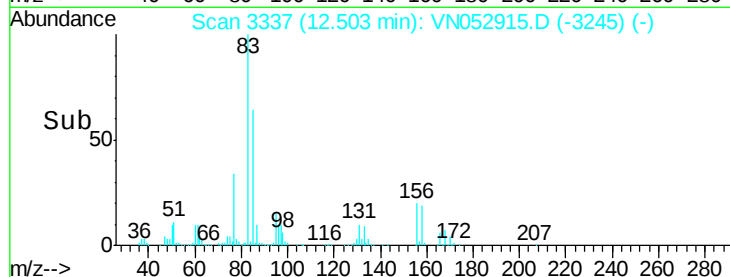
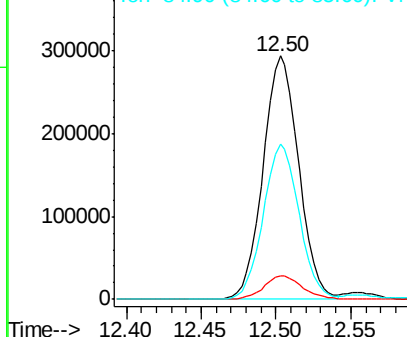
85 64.3 32.4 97.0

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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 130.80 (130.50 to 131.50): VN0
Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 47.872 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

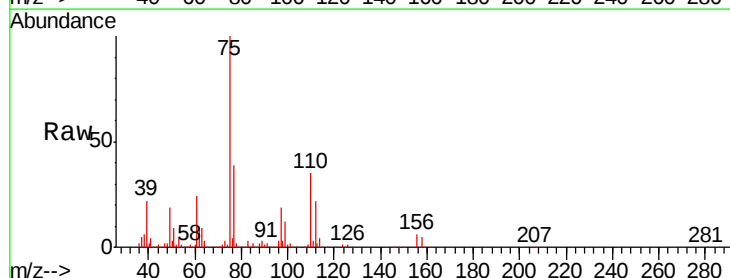
Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

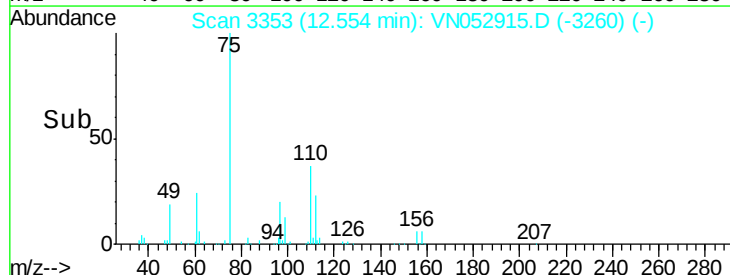
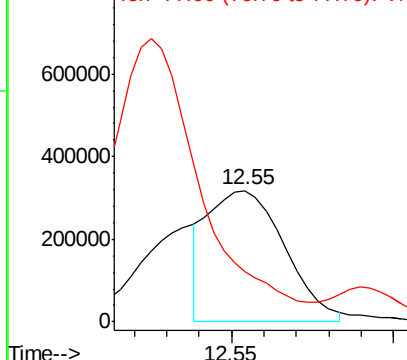
Tgt Ion: 75 Resp: 527141
Ion Ratio Lower Upper

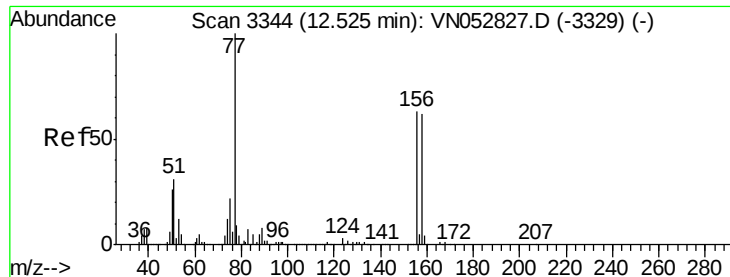
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 52.363 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

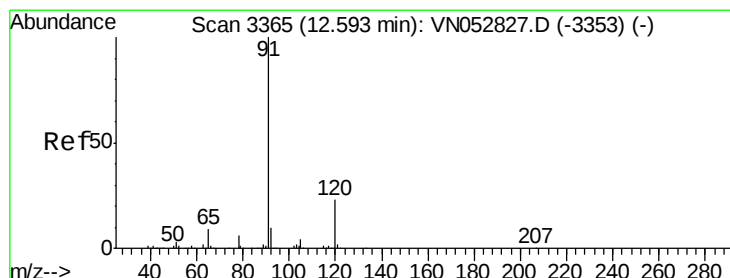
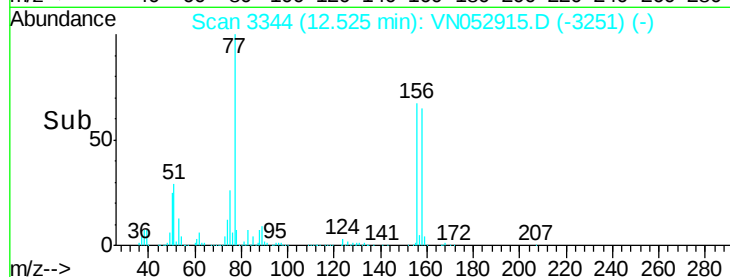
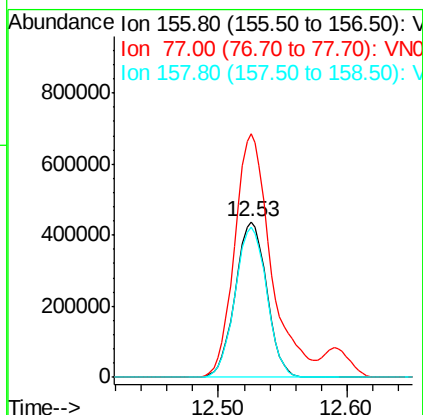
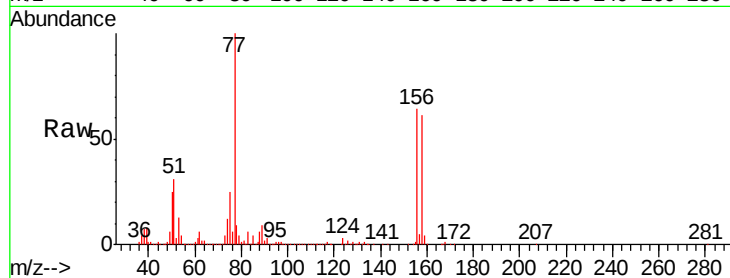
ClientSampleId :

VSTDCCC050

Tgt Ion:	156	Resp:	742168
Ion Ratio	Lower	Upper	
156	100		
77	180.4	91.3	273.8
158	97.1	49.0	147.2

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#78

n-propylbenzene

Concen: 54.036 ug/l

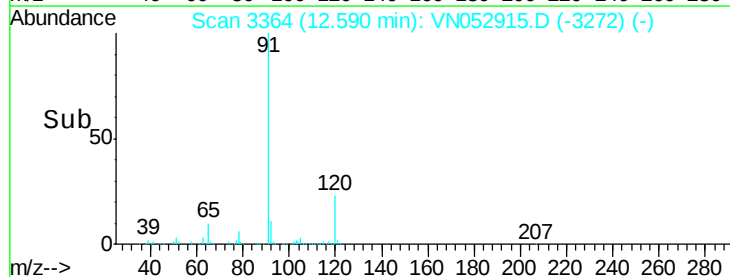
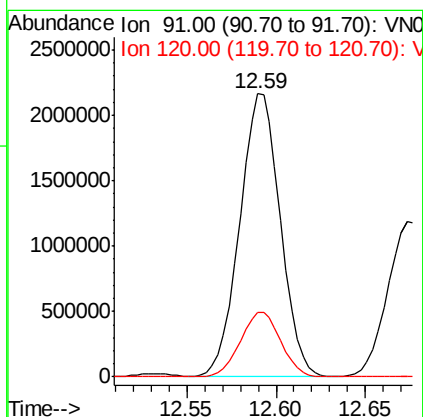
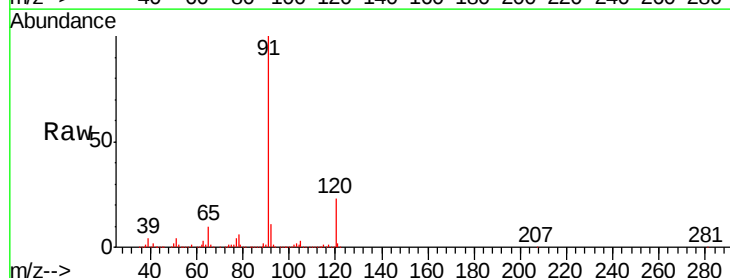
RT: 12.59 min Scan# 3364

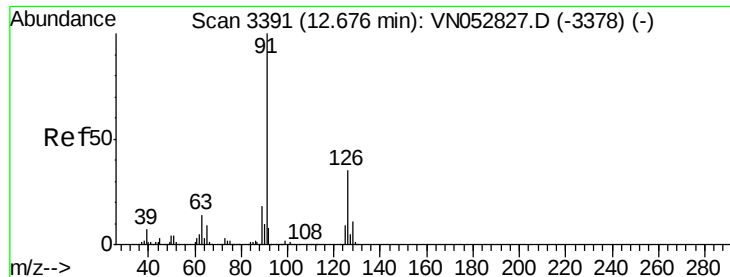
Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Tgt Ion:	91	Resp:	3434175
Ion Ratio	Lower	Upper	
91	100		
120	22.8	11.5	34.5





#79

2-Chlorotoluene

Concen: 52.178 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 1960444

Ion Ratio Lower Upper

91 100

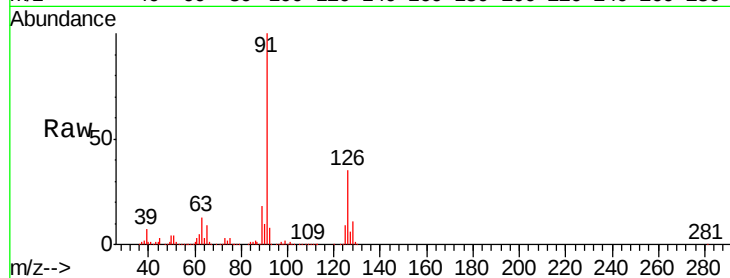
126 35.0 17.4 52.3

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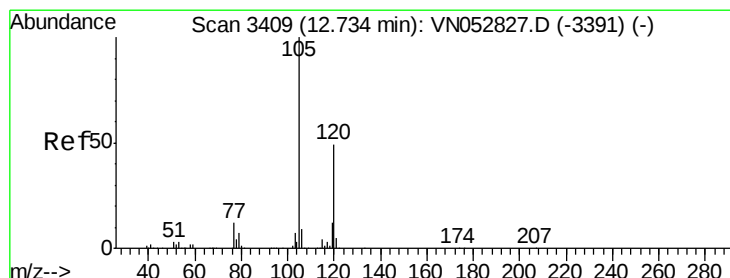
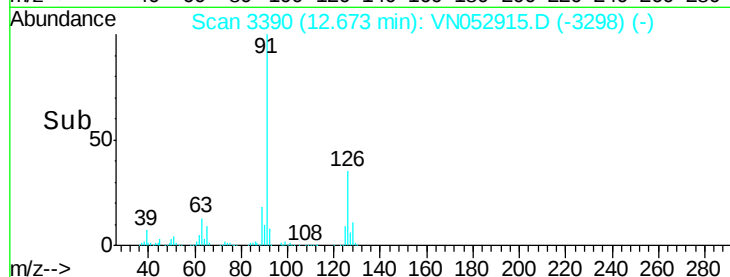
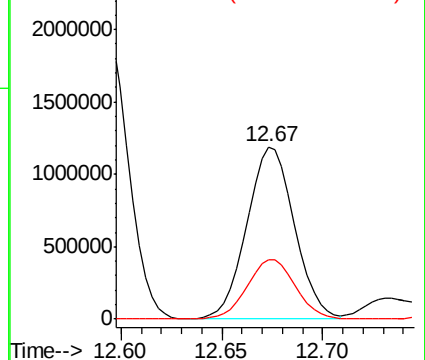
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Abundance Ion 91.00 (90.70 to 91.70): VN052827.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN052827.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 52.493 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052915.D

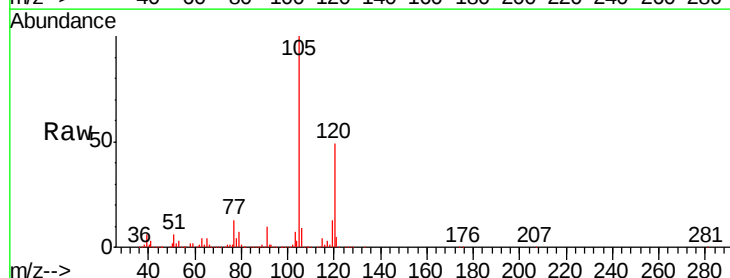
Acq: 17 Dec 2018 9:35

Tgt Ion: 105 Resp: 2361362

Ion Ratio Lower Upper

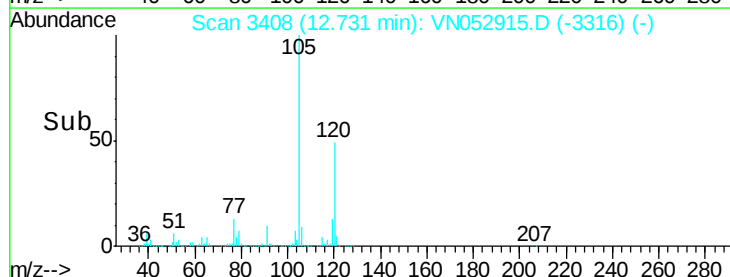
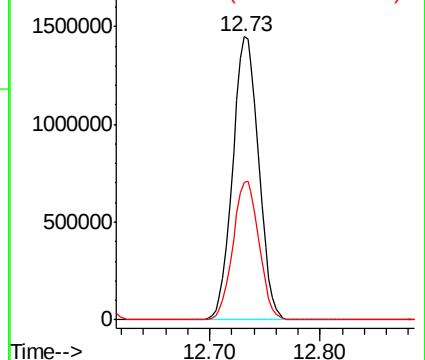
105 100

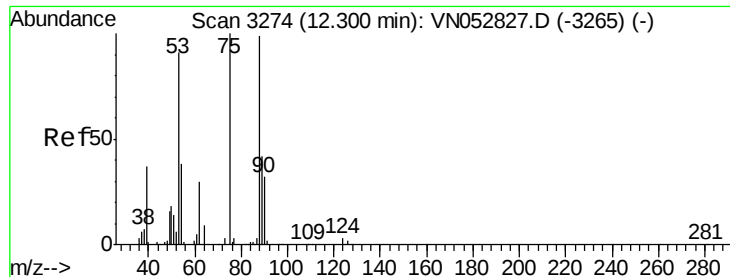
120 49.1 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN052827.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052827.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 59.170 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 202821
Ion Ratio Lower Upper

75 100

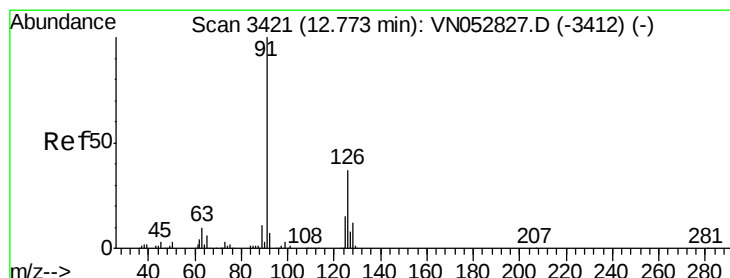
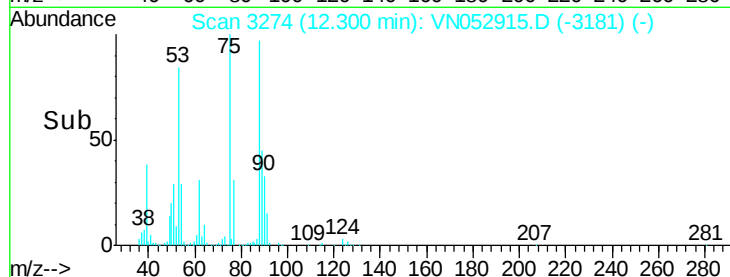
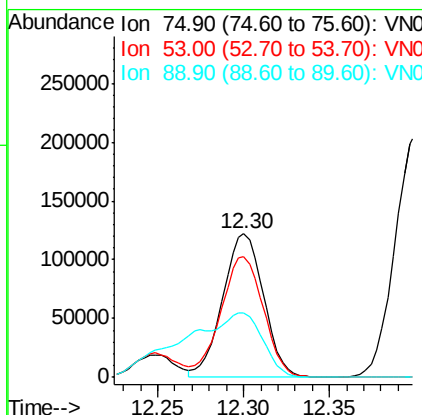
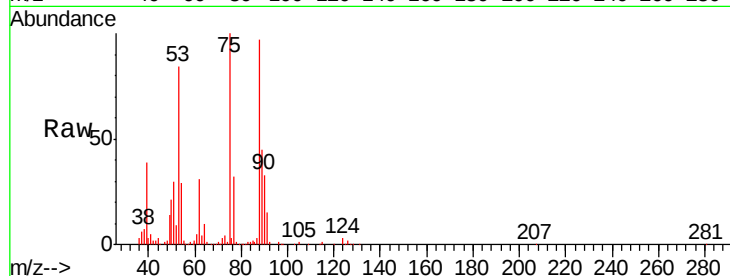
53 88.1 74.7 112.1

89 88.6 36.1 54.1#

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#82

4-Chlorotoluene

Concen: 52.526 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

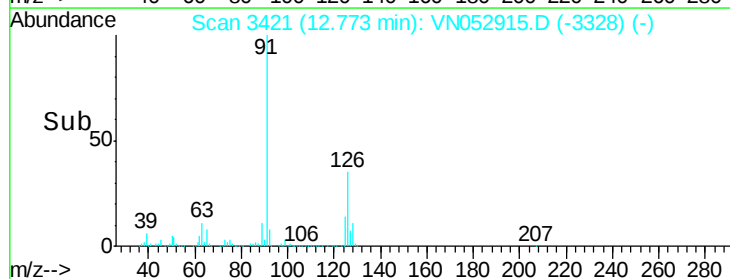
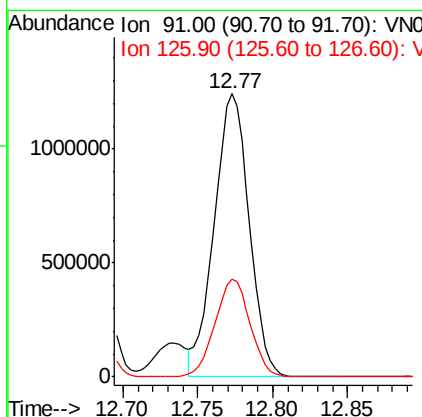
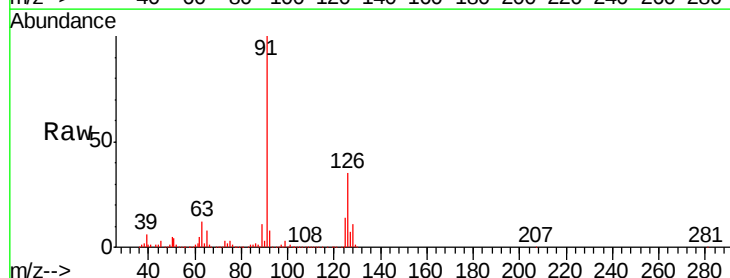
Lab File: VN052915.D

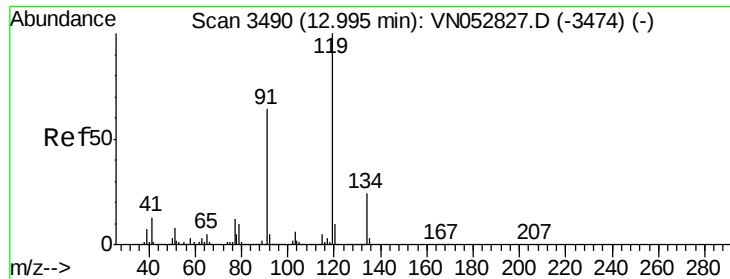
Acq: 17 Dec 2018 9:35

Tgt Ion: 91 Resp: 2017797
Ion Ratio Lower Upper

91 100

126 34.6 17.3 51.7





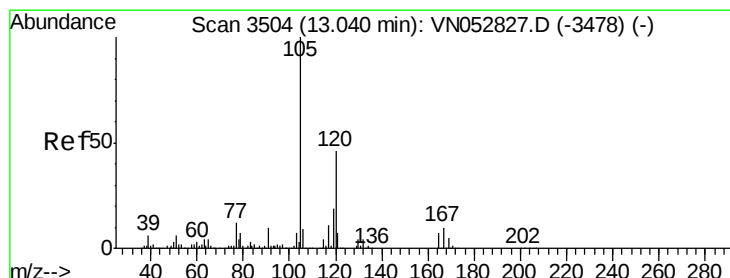
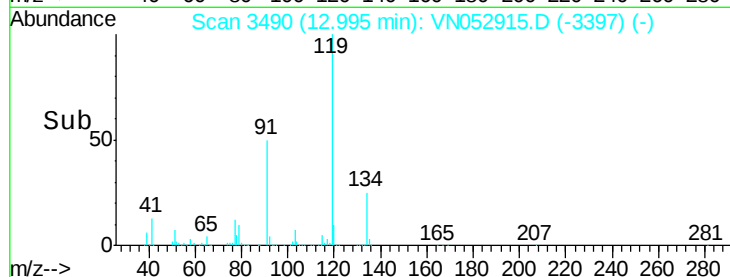
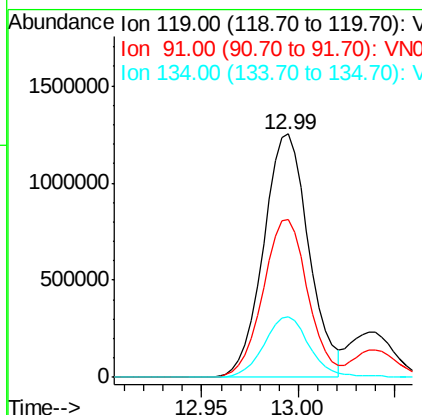
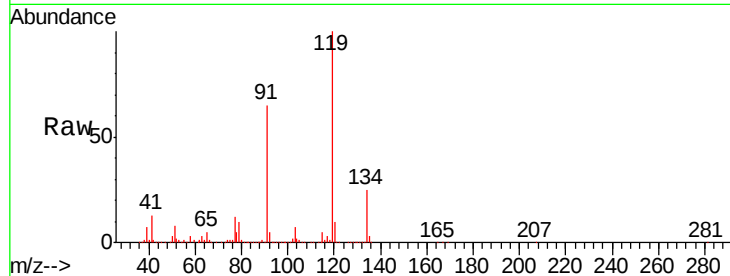
#83
 tert-Butylbenzene
 Concen: 51.526 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:119 Resp: 2044655
 Ion Ratio Lower Upper
 119 100
 91 64.1 31.9 95.5
 134 25.1 12.8 38.4

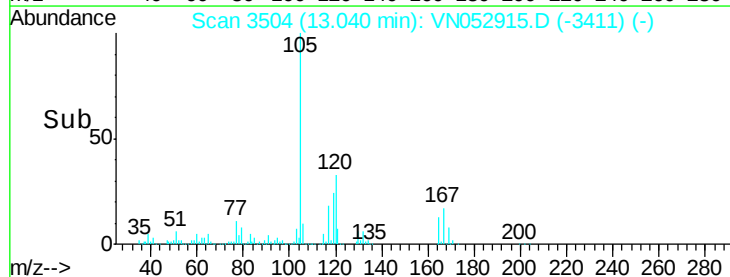
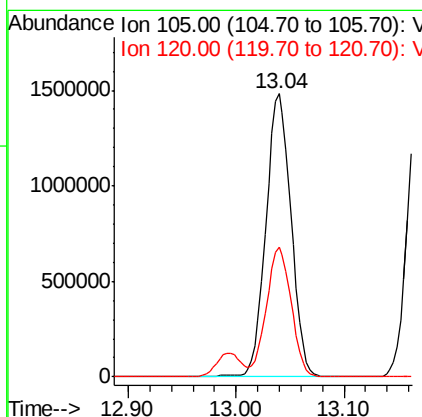
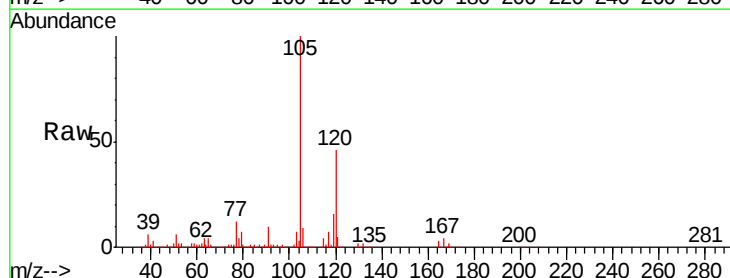
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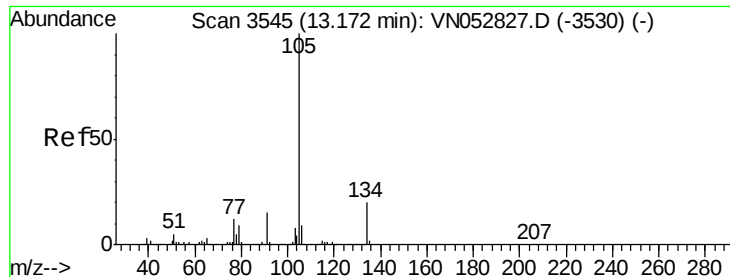
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#84
 1,2,4-Trimethylbenzene
 Concen: 52.566 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion:105 Resp: 2393887
 Ion Ratio Lower Upper
 105 100
 120 45.3 22.9 68.8





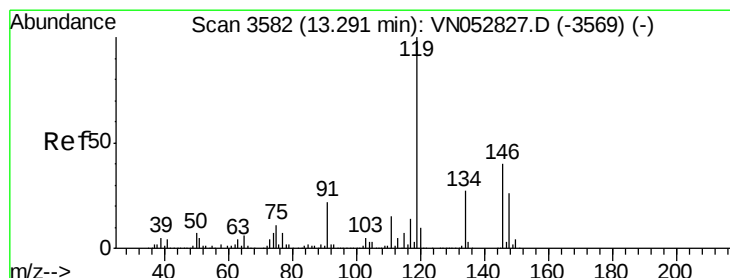
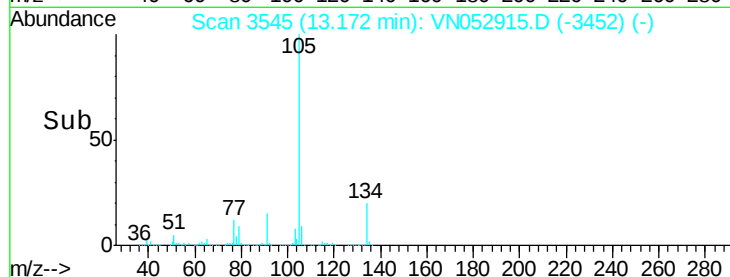
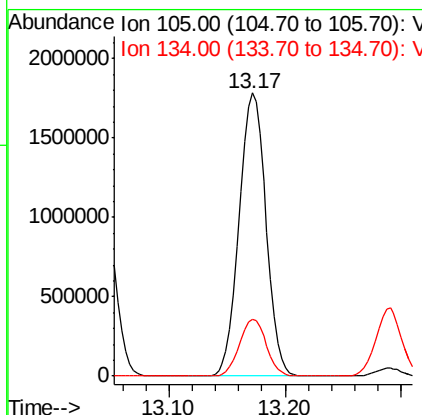
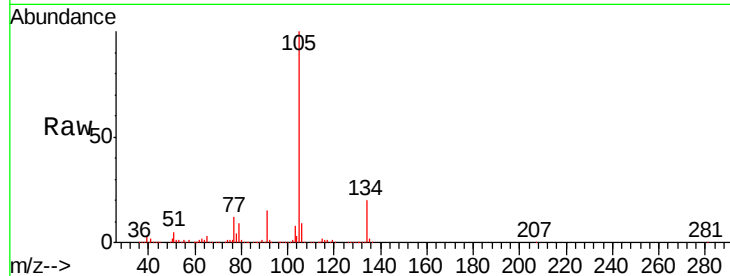
#85
 sec-Butylbenzene
 Concen: 53.164 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:105 Resp: 2857067
 Ion Ratio Lower Upper
 105 100
 134 20.2 10.1 30.3

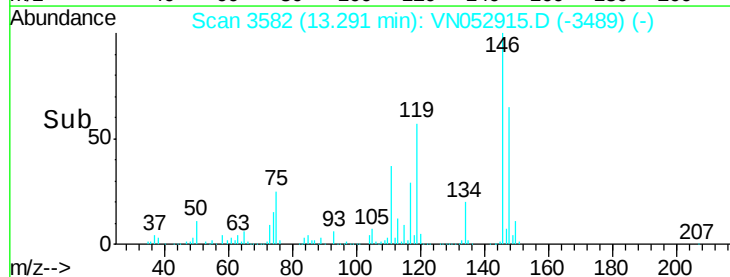
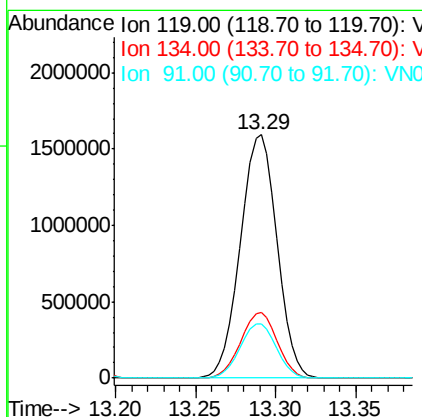
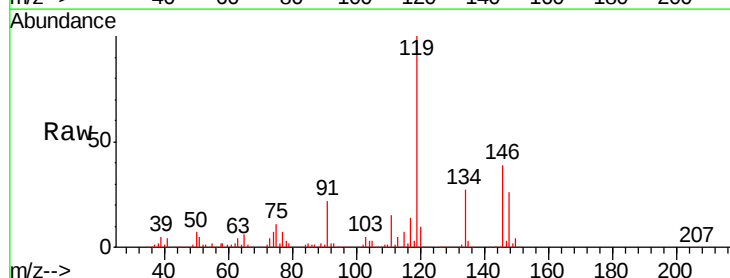
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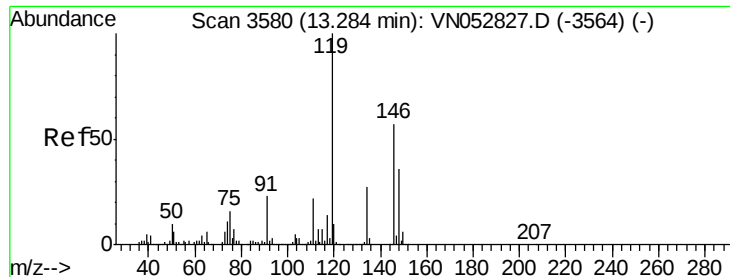
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#86
 p-Isopropyltoluene
 Concen: 53.307 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion:119 Resp: 2481920
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.4 40.2
 91 22.2 11.1 33.3





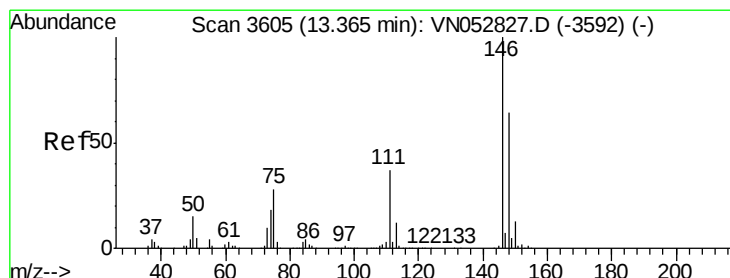
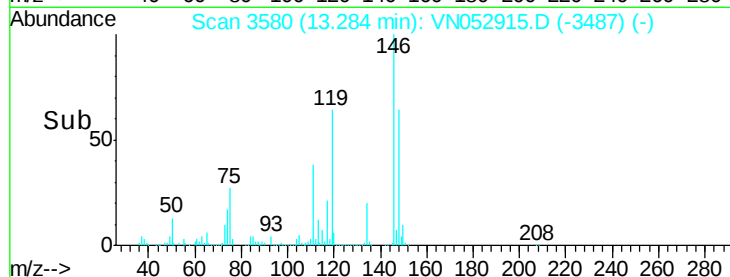
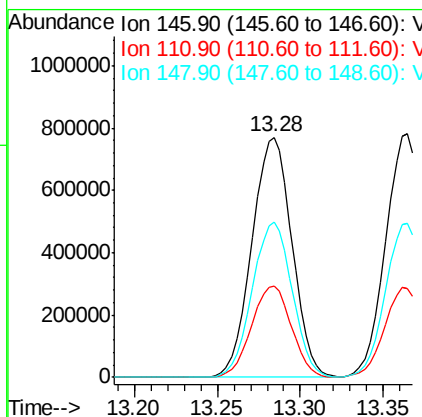
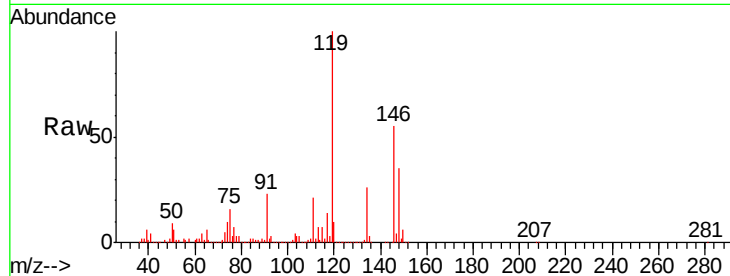
#87
 1,3-Dichlorobenzene
 Concen: 51.302 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion:146 Resp: 1292155
 Ion Ratio Lower Upper
 146 100
 111 38.1 19.1 57.1
 148 64.3 32.0 96.0

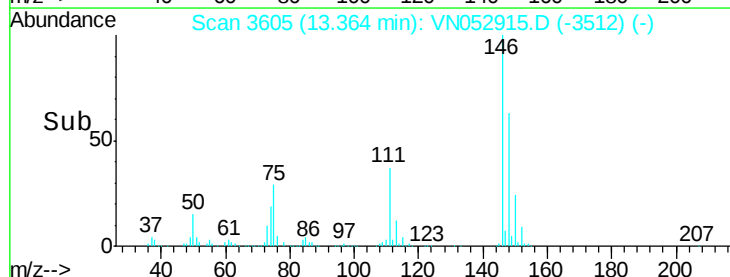
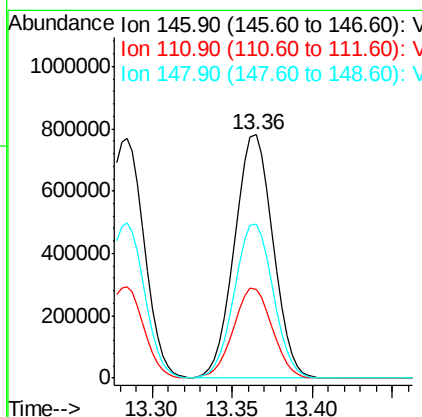
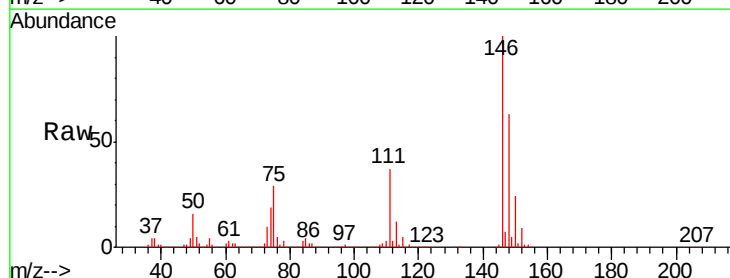
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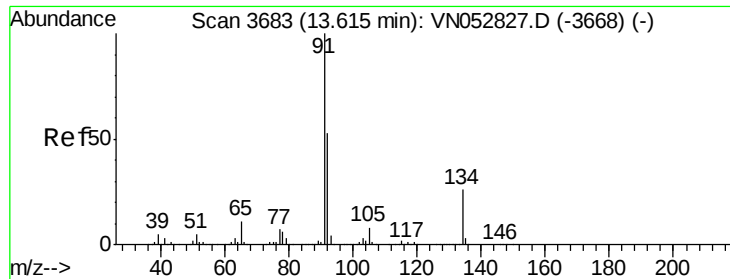
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#88
 1,4-Dichlorobenzene
 Concen: 51.289 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion:146 Resp: 1279307
 Ion Ratio Lower Upper
 146 100
 111 37.4 18.6 55.8
 148 63.9 32.1 96.5





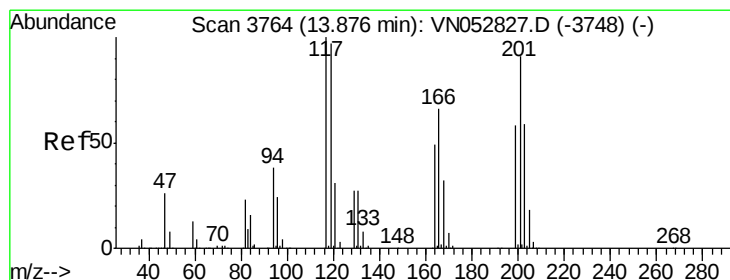
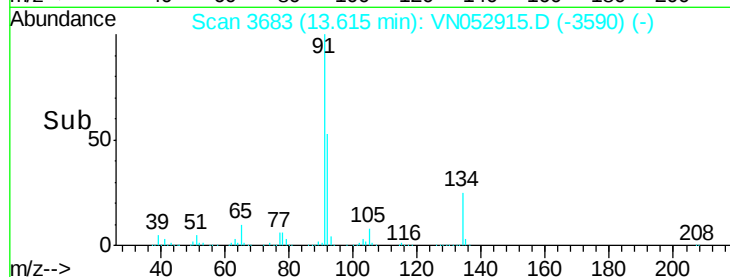
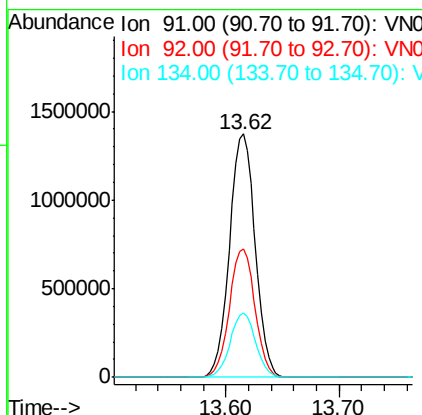
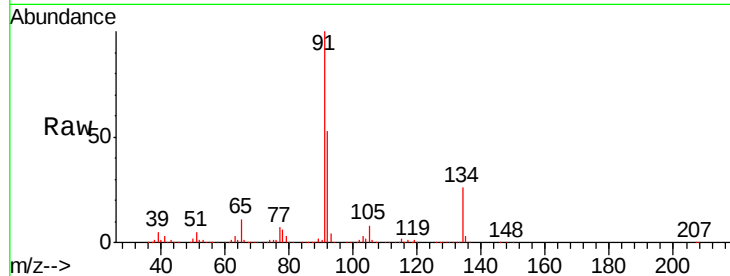
#89
n-Butylbenzene
Concen: 55.094 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 2159434
Ion Ratio Lower Upper
91 100
92 52.7 26.3 78.9
134 26.2 13.3 39.8

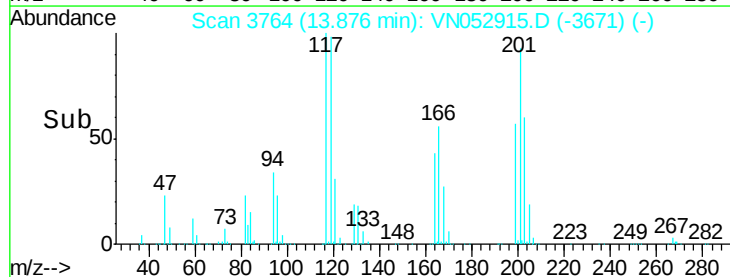
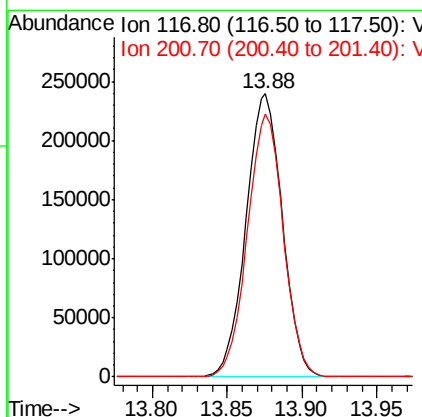
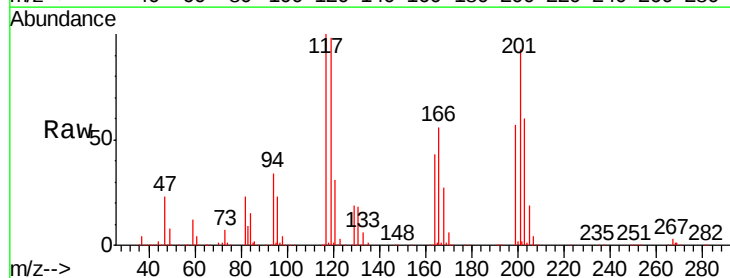
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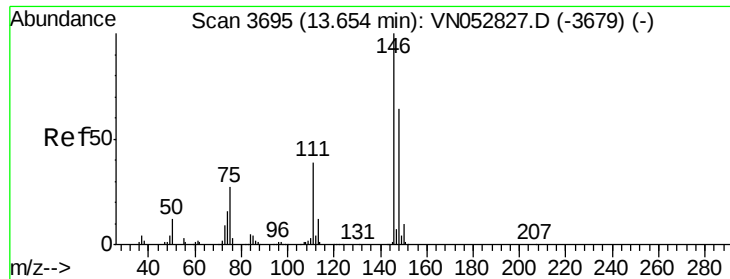
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#90
Hexachloroethane
Concen: 52.009 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 117 Resp: 405477
Ion Ratio Lower Upper
117 100
201 91.6 45.7 137.1





#91

1,2-Dichlorobenzene

Concen: 49.475 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 146 Resp: 1198705

Ion Ratio Lower Upper

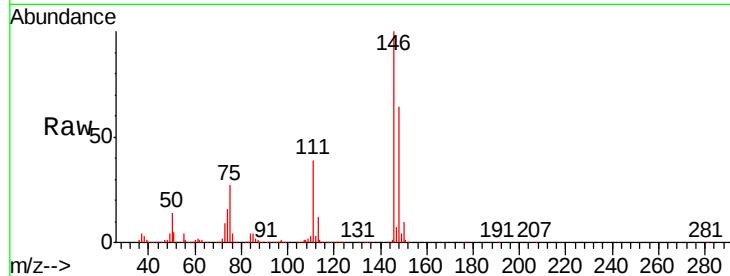
146 100

111 39.3 19.7 59.0

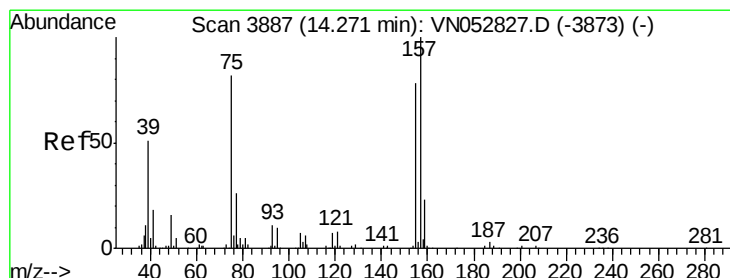
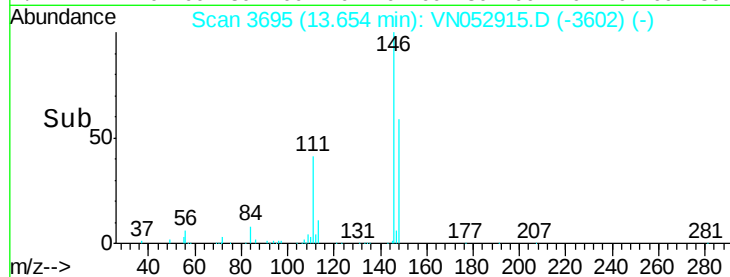
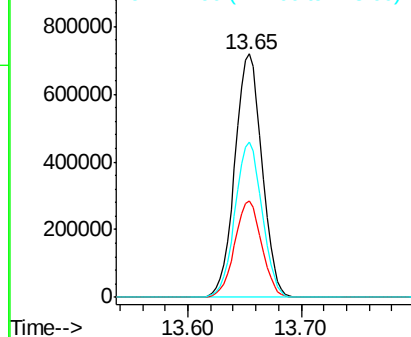
148 63.7 32.0 96.0

Manual Integrations
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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 49.355 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

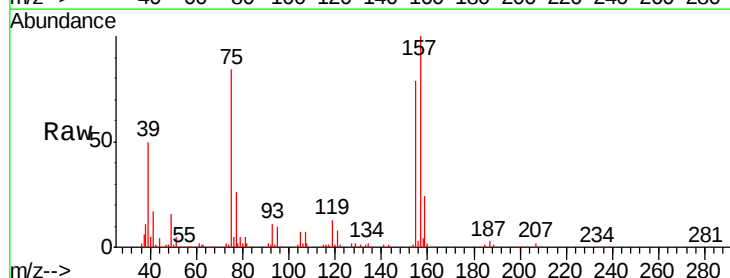
Tgt Ion: 75 Resp: 92914

Ion Ratio Lower Upper

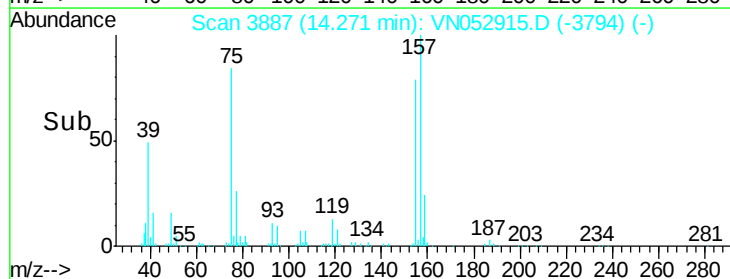
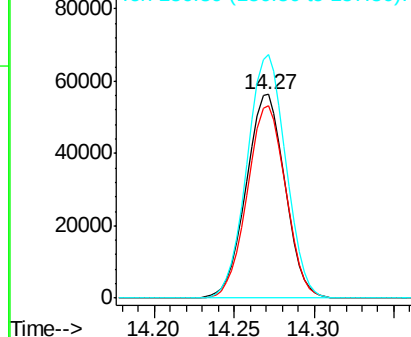
75 100

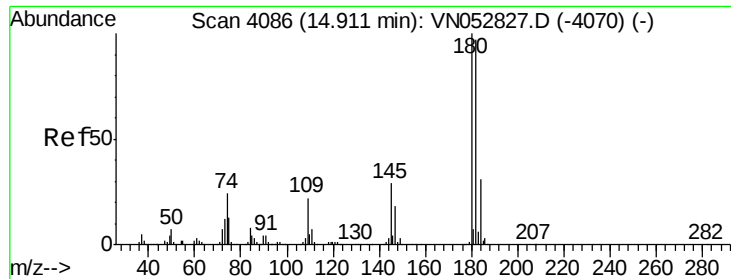
155 93.6 48.2 144.6

157 119.8 61.2 183.5



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





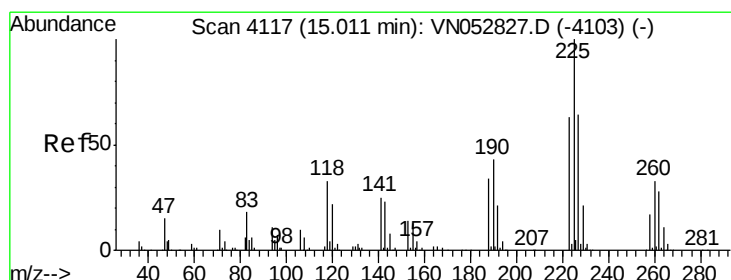
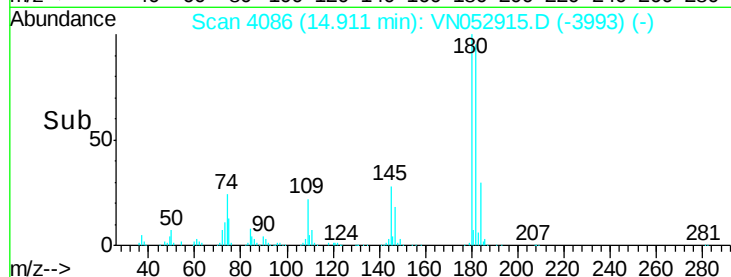
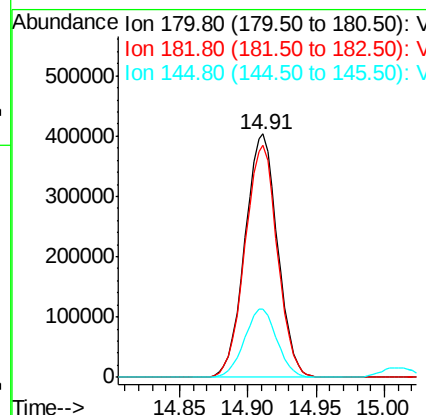
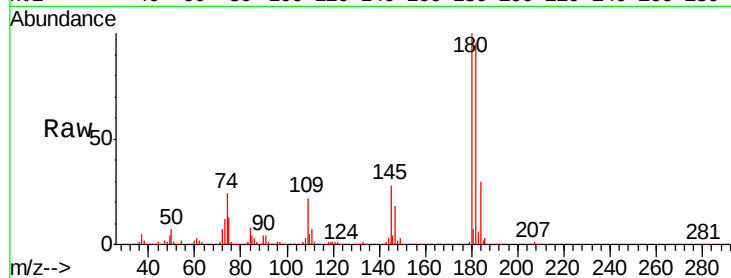
#93
 1,2,4-Trichlorobenzene
 Concen: 50.741 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	94.8	47.8	143.3
145	28.1	14.2	42.6

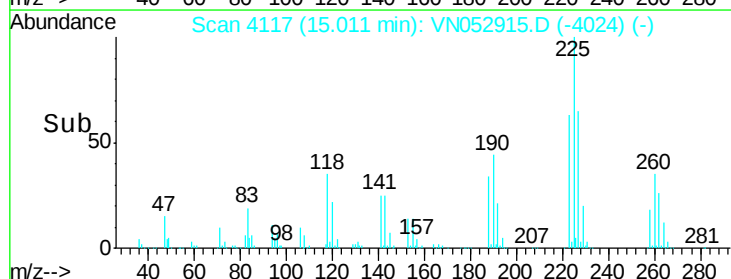
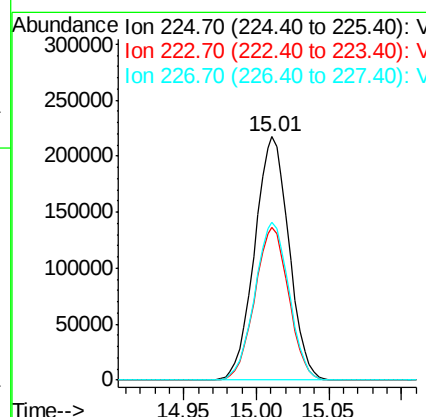
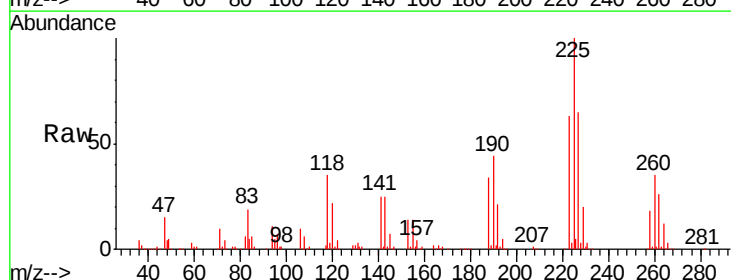
Manual Integrations
 APPROVED

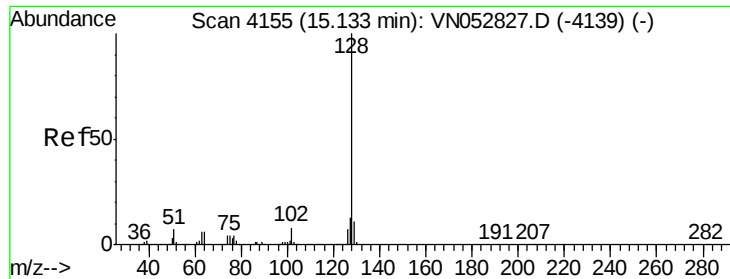
MMDadoda
 12/18/2018 1:32:59 PM



#94
 Hexachlorobutadiene
 Concen: 46.927 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Resp Lower	Resp Upper
225	100		
223	62.1	31.5	94.5
227	64.9	31.9	95.7





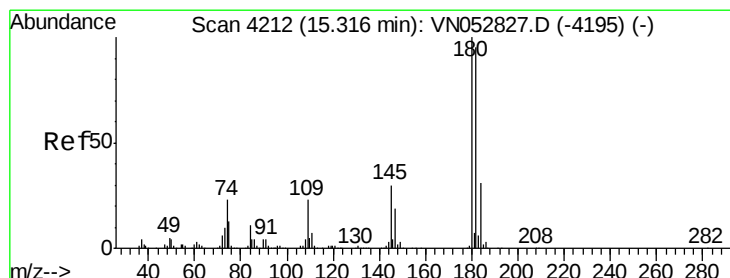
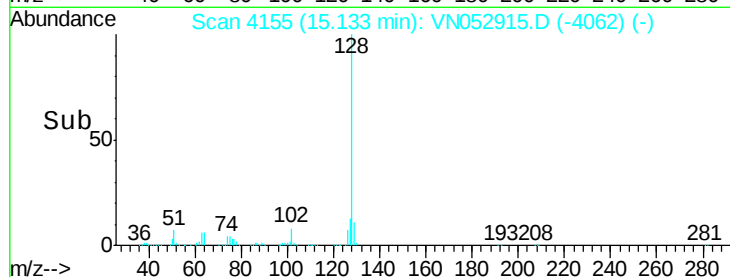
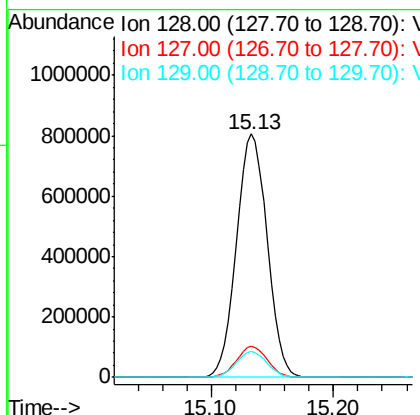
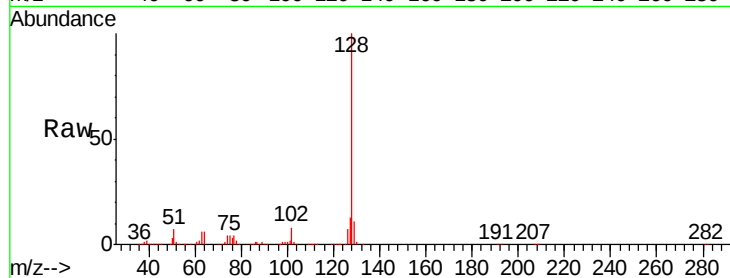
#95
Naphthalene
Concen: 51.234 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/18/2018 1:32:59 PM



#96
1,2,3-Trichlorobenzene
Concen: 48.874 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.9	143.7
145	29.7	15.0	45.0

