

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052889.D
 Acq On : 14 Dec 2018 15:21
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/17/2018 3:05:50 PM

Quant Time: Dec 15 03:21:10 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	7.67	168	1233645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1842926	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1660254	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	770040	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	643317	49.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.08%	
35) Dibromofluoromethane	7.59	113	418101	40.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.28%	
50) Toluene-d8	10.09	98	2371018	53.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.32%	
62) 4-Bromofluorobenzene	12.40	95	816936	54.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	629165	49.544	ug/l	99
3) Chloromethane	2.06	50	712323	46.736	ug/l	98
4) Vinyl Chloride	2.19	62	738887	48.457	ug/l	100
5) Bromomethane	2.57	94	440674	46.856	ug/l	99
6) Chloroethane	2.71	64	436343	48.412	ug/l	99
7) Trichlorofluoromethane	3.03	101	937166	49.573	ug/l	99
8) Diethyl Ether	3.41	74	332571	48.226	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.77	101	597616	51.007	ug/l	99
10) Methyl Iodide	3.96	142	814939	49.667	ug/l	99
11) Tert butyl alcohol	4.77	59	154943	211.403	ug/l	98
12) 1,1-Dichloroethene	3.74	96	551931	48.662	ug/l	99
13) Acrolein	3.61	56	54746	79.335	ug/l	100
14) Allyl chloride	4.33	41	910619	49.155	ug/l	97
15) Acrylonitrile	4.99	53	927756	225.633	ug/l	99
16) Acetone	3.82	43	606123	205.743	ug/l	98
17) Carbon Disulfide	4.06	76	1629938	46.780	ug/l	100
18) Methyl Acetate	4.32	43	497550	46.019	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	1460736	47.440	ug/l	100
20) Methylene Chloride	4.55	84	621472	46.876	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	588826	47.919	ug/l	99
22) Diisopropyl ether	5.95	45	1897201	48.004	ug/l	99
23) Vinyl Acetate	5.90	43	5270727	224.124	ug/l	99
24) 1,1-Dichloroethane	5.85	63	1096624	48.116	ug/l	99
25) 2-Butanone	6.83	43	978760	214.115	ug/l	98
26) 2,2-Dichloropropane	6.83	77	848842	50.575	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	673919	48.322	ug/l	99
28) Bromochloromethane	7.20	49	505394	49.383	ug/l	98
29) Tetrahydrofuran	7.21	42	686159	219.875	ug/l	98
30) Chloroform	7.37	83	1085426	48.838	ug/l	100
31) Cyclohexane	7.66	56	1077246	48.445	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	912124	49.052	ug/l	99
36) 1,1-Dichloropropene	7.80	75	866806	51.076	ug/l	100
37) Ethyl Acetate	6.93	43	465125	45.623	ug/l	100
38) Carbon Tetrachloride	7.78	117	779103	49.876	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1087685	52.227	ug/l	99
40) Benzene	8.04	78	2545401	49.973	ug/l	99
41) Methacrylonitrile	7.17	41	285436	50.530	ug/l	92
42) 1,2-Dichloroethane	8.13	62	752003	49.040	ug/l	100
43) Isopropyl Acetate	8.16	43	887922	42.479	ug/l	99
44) Trichloroethene	8.84	130	753841	54.792	ug/l	97
45) 1,2-Dichloropropane	9.12	63	670209	50.235	ug/l	97
46) Dibromomethane	9.21	93	379248	49.016	ug/l	99
47) Bromodichloromethane	9.40	83	809402	50.447	ug/l	99
48) Methyl methacrylate	9.20	41	450619	49.158	ug/l	99
49) 1,4-Dioxane	9.20	88	99195	953.340	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	2260017	235.793	ug/l	99
52) Toluene	10.16	92	1586051	51.412	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	838783	51.951	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	988566	51.382	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	541070	49.132	ug/l	99
56) Ethyl methacrylate	10.43	69	713147	50.460	ug/l	99
57) 1,3-Dichloropropane	10.71	76	936851	49.609	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1945054	246.652	ug/l	99
59) 2-Hexanone	10.75	43	1525155	232.189	ug/l	100
60) Dibromochloromethane	10.90	129	596858	50.148	ug/l	100
61) 1,2-Dibromoethane	11.01	107	542417	49.829	ug/l	100
64) Tetrachloroethene	10.63	164	941271	65.964	ug/l	98
65) Chlorobenzene	11.44	112	1757704	51.030	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	606298	50.612	ug/l	99
67) Ethyl Benzene	11.51	91	3063059	51.783	ug/l	100
68) m/p-Xylenes	11.62	106	2323815	104.626	ug/l	100
69) o-Xylene	11.95	106	1130942	52.145	ug/l	100
70) Styrene	11.97	104	1852170	53.124	ug/l	100
71) Bromoform	12.13	173	393600	48.364	ug/l #	100
73) Isopropylbenzene	12.25	105	3031278	52.723	ug/l	100
74) N-amyl acetate	12.07	43	805794	51.050	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	483798	37.547	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	539063m	47.448	ug/l	
77) Bromobenzene	12.53	156	758848	51.893	ug/l	97
78) n-propylbenzene	12.59	91	3478279	53.046	ug/l	100
79) 2-Chlorotoluene	12.68	91	1990005	51.335	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2425081	52.251	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	183216	51.807	ug/l	97
82) 4-Chlorotoluene	12.77	91	2061210	52.006	ug/l	100
83) tert-Butylbenzene	12.99	119	2128580	51.991	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2451217	52.169	ug/l	100
85) sec-Butylbenzene	13.17	105	2925251	52.758	ug/l	100
86) p-Isopropyltoluene	13.29	119	2542567	52.929	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1324079	50.952	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1306863	50.782	ug/l	100
89) n-Butylbenzene	13.62	91	2195948	54.302	ug/l	100
90) Hexachloroethane	13.88	117	362420	45.056	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	1226831	49.078	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	84784	43.651	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	677276	49.843	ug/l	100
94) Hexachlorobutadiene	15.01	225	382147	48.588	ug/l	100
95) Naphthalene	15.13	128	1393529	49.516	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	591418	47.434	ug/l	99

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

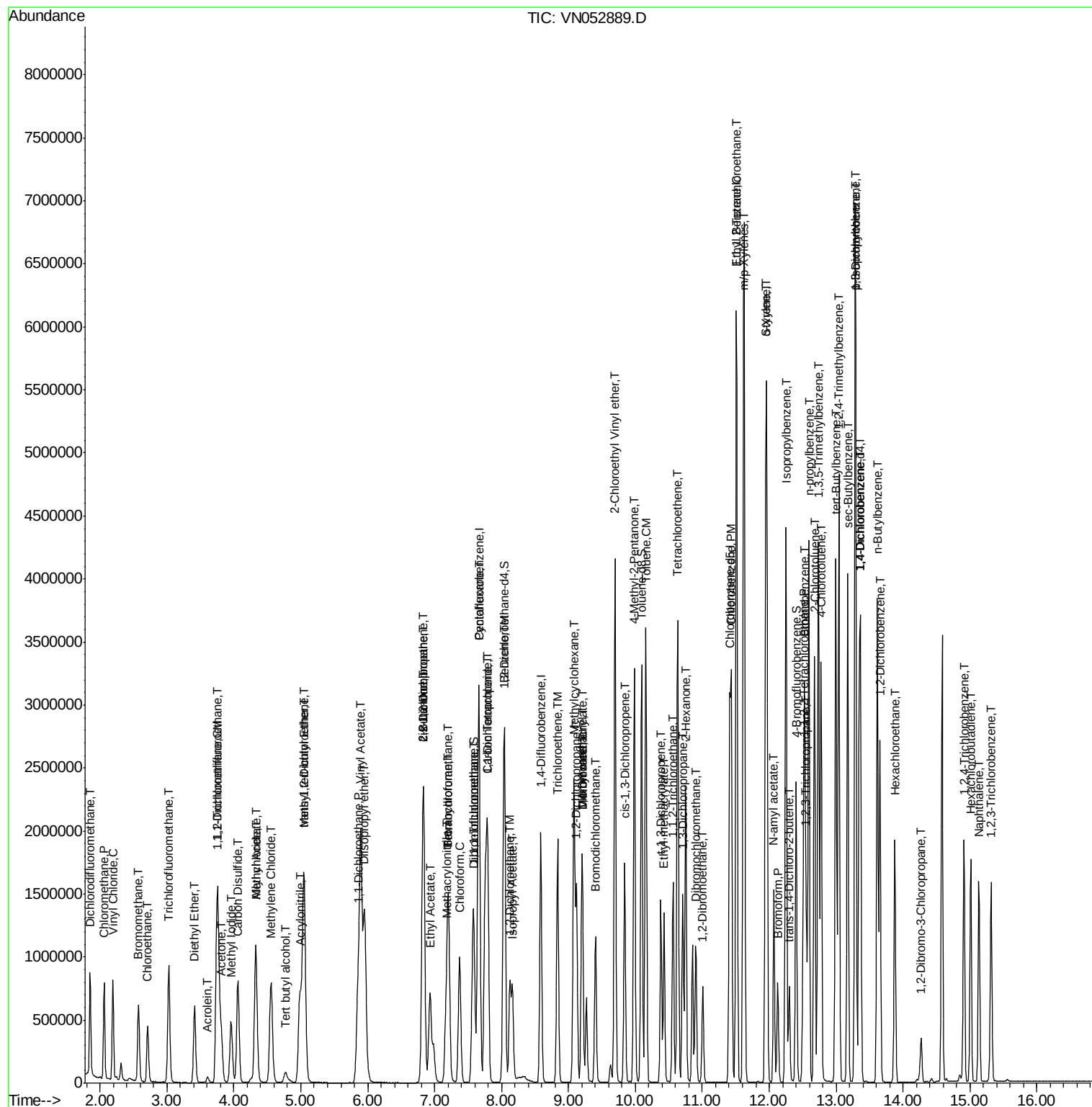
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
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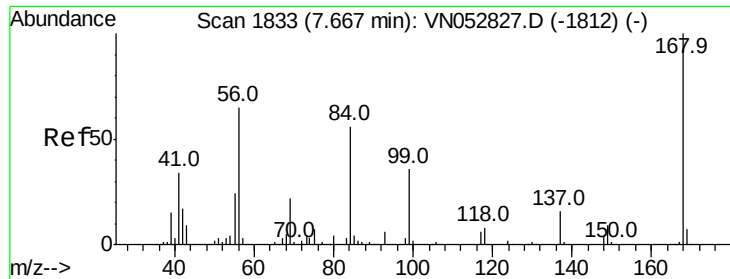
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 1233645

Ion Ratio Lower Upper

168 100

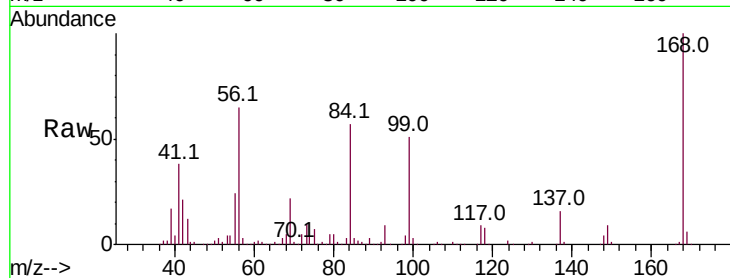
99 51.0 40.2 60.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

600000

500000

400000

300000

200000

100000

0

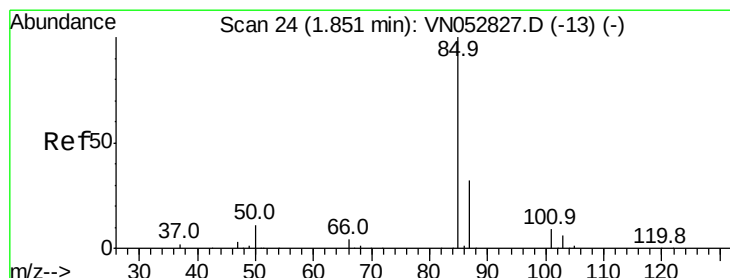
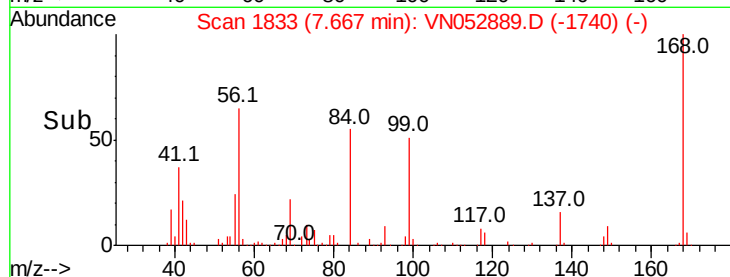
7.67

7.60

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 49.544 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052889.D

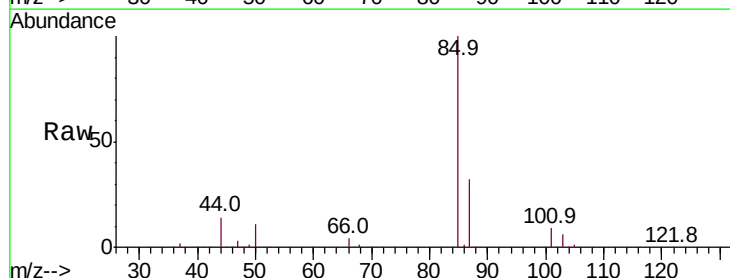
Acq: 14 Dec 2018 15:21

Tgt Ion: 85 Resp: 629165

Ion Ratio Lower Upper

85 100

87 32.0 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

500000

400000

300000

200000

100000

0

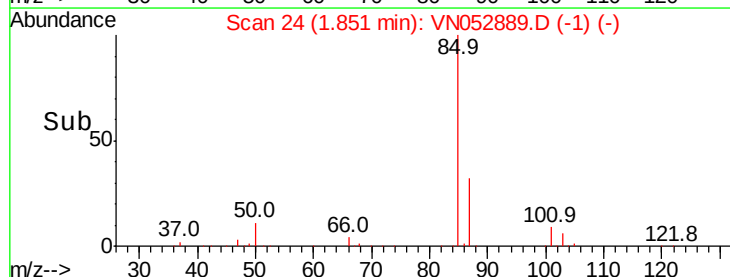
1.85

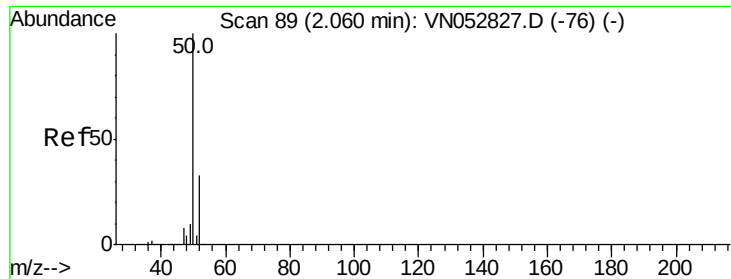
1.80

1.90

2.00

Time-->





#3

Chloromethane

Concen: 46.736 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 712323

Ion Ratio Lower Upper

50 100

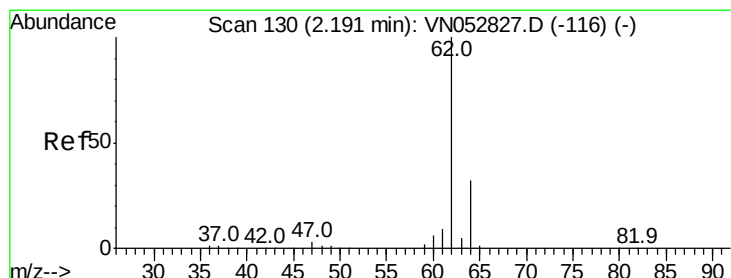
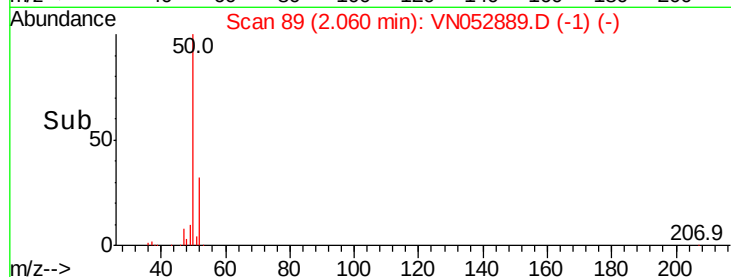
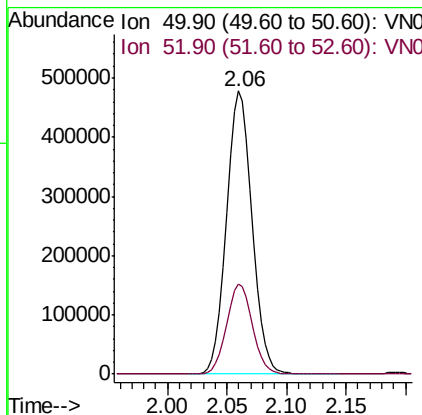
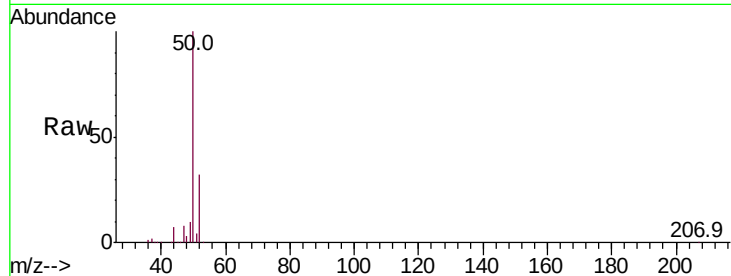
52 31.9 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 48.457 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052889.D

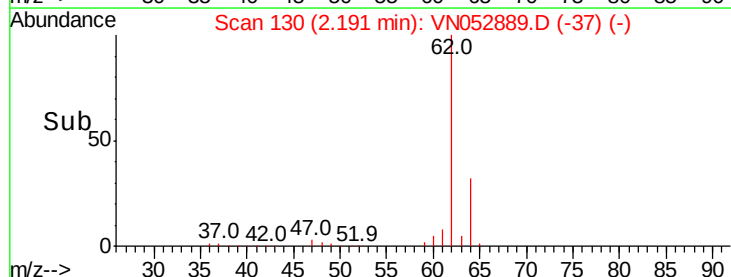
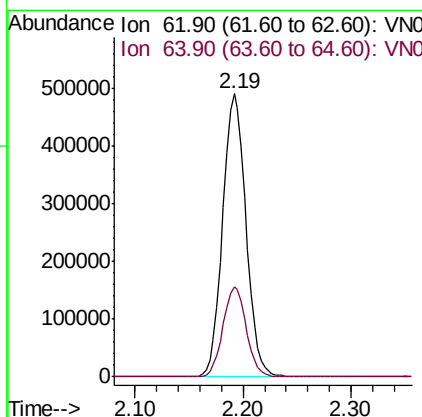
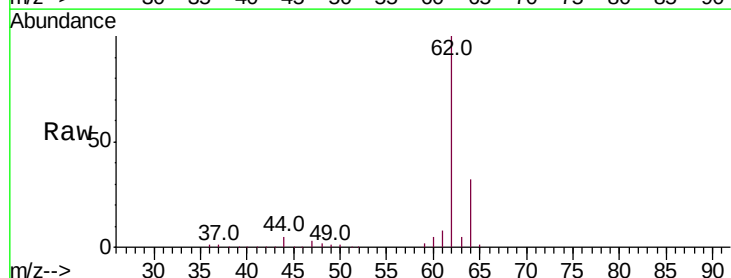
Acq: 14 Dec 2018 15:21

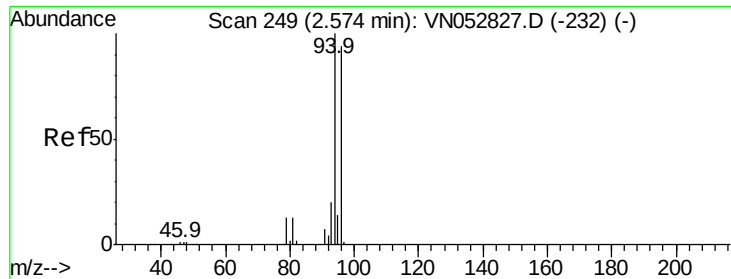
Tgt Ion: 62 Resp: 738887

Ion Ratio Lower Upper

62 100

64 31.9 25.5 38.3





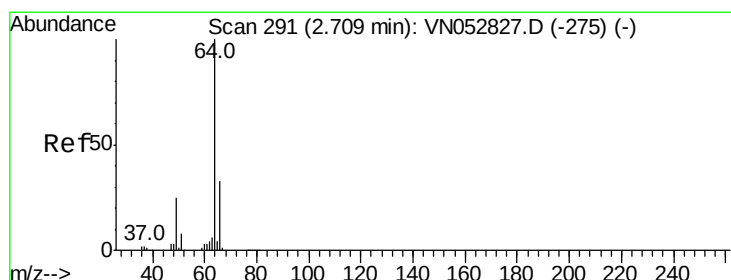
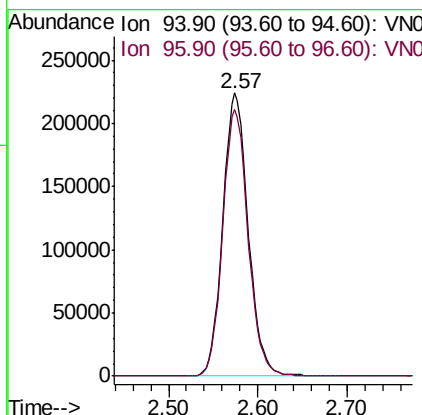
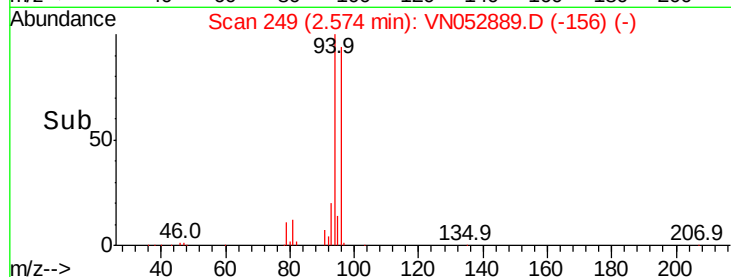
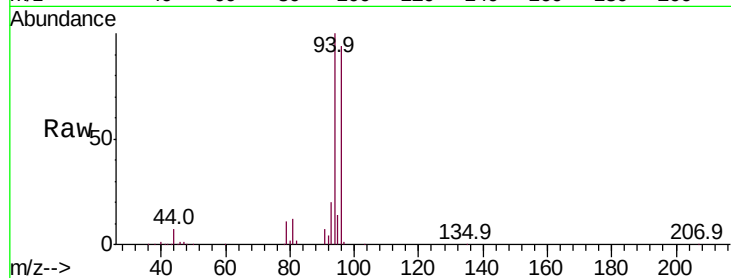
#5
Bromomethane
Concen: 46.856 ug/l
RT: 2.57 min Scan# 249
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion: 94 Resp: 440674
Ion Ratio Lower Upper
94 100
96 94.4 75.0 112.4

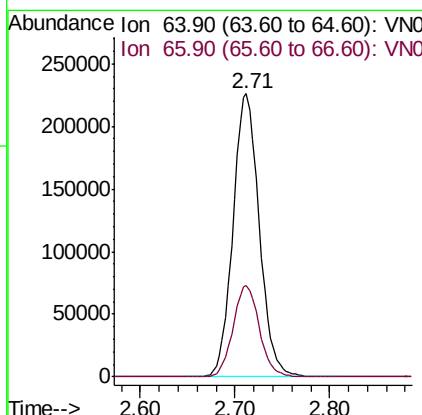
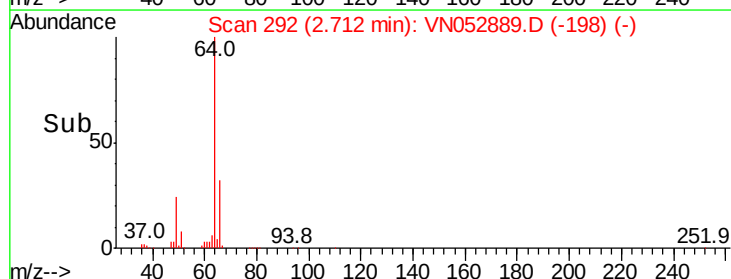
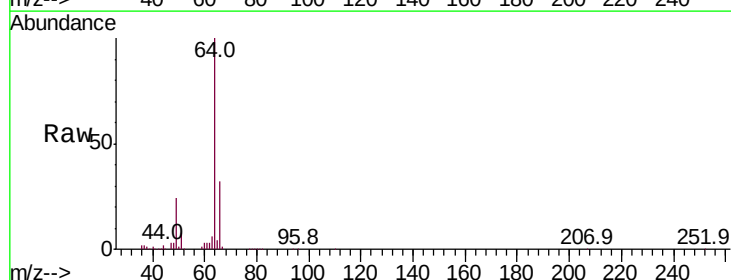
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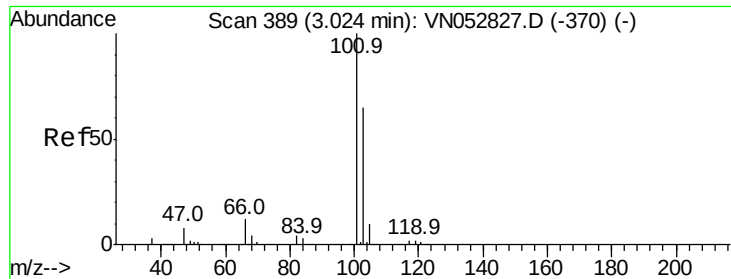
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#6
Chloroethane
Concen: 48.412 ug/l
RT: 2.71 min Scan# 292
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion: 64 Resp: 436343
Ion Ratio Lower Upper
64 100
66 32.2 26.2 39.2





#7

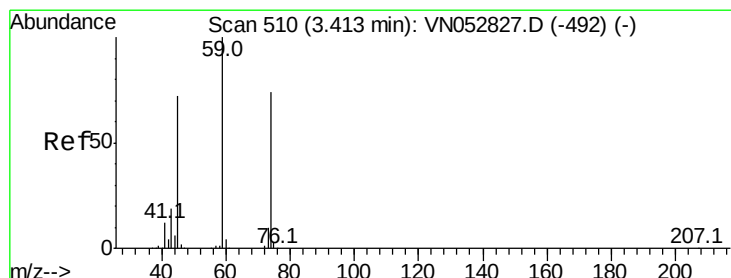
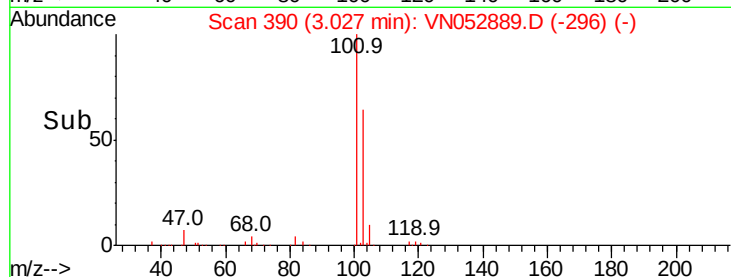
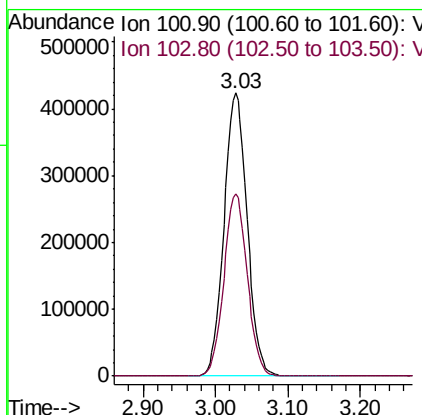
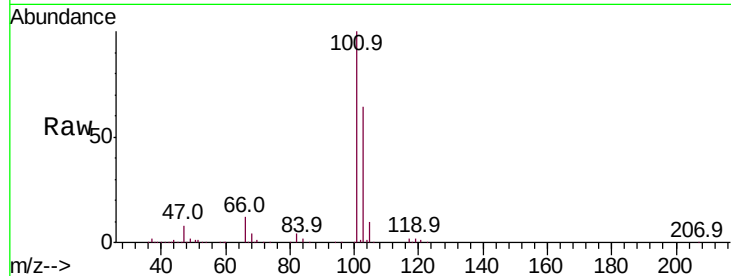
Trichlorofluoromethane
Concen: 49.573 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.8	77.6

Manual Integrations
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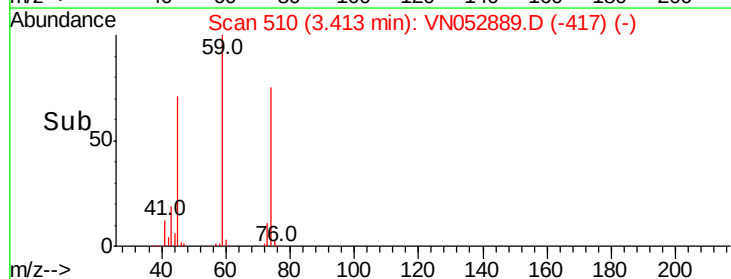
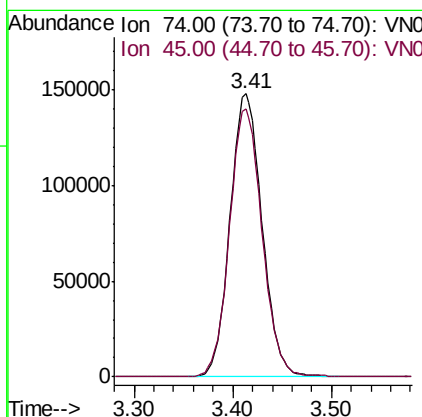
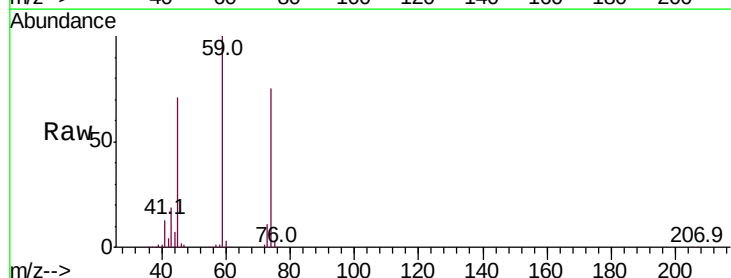
MMDadoda
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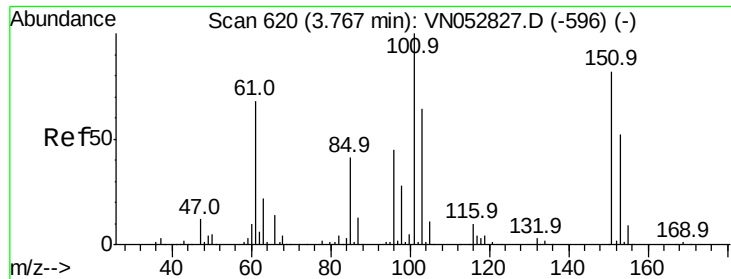


#8

Diethyl Ether
Concen: 48.226 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.1	49.4	148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.007 ug/l

RT: 3.77 min Scan# 621

Delta R.T. 0.00 min

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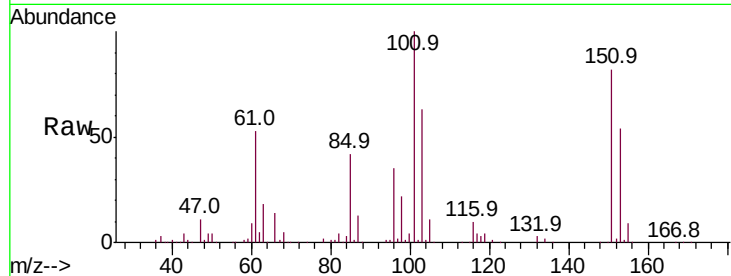
ClientSampleId :

VSTDCCC050

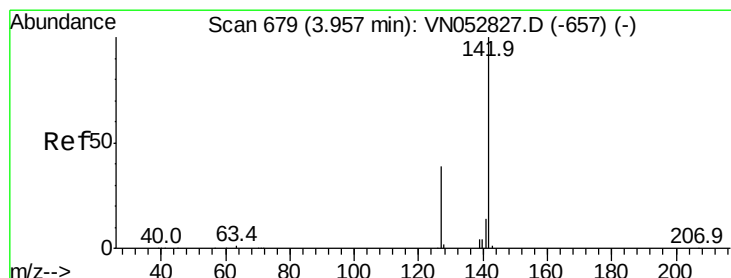
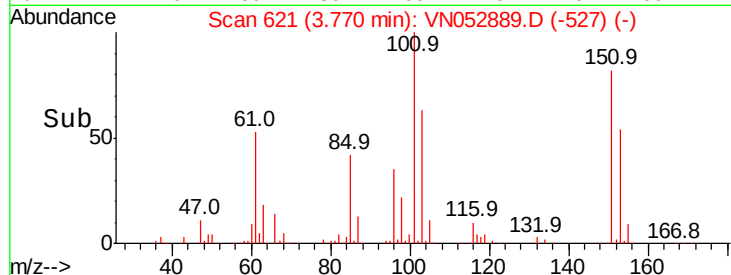
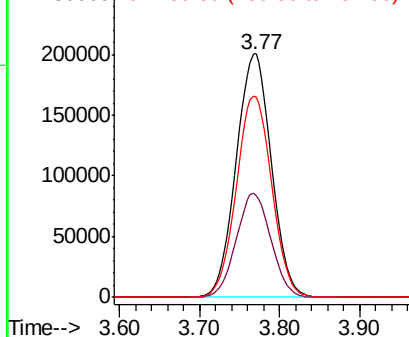
Tot Ion:	101	Resp:	597616
Ion Ratio	Lower	Upper	
101	100		
85	42.0	33.6	50.4
151	83.0	65.5	98.3

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



#10

Methyl Iodide

Concen: 49.667 ug/l

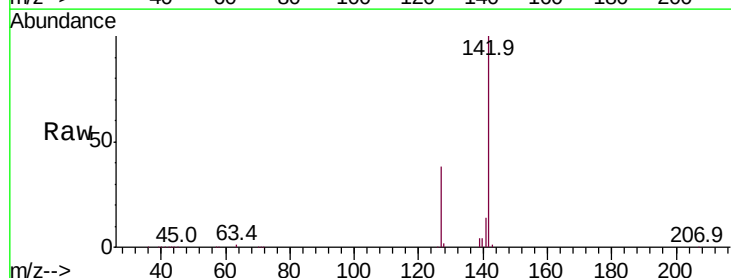
RT: 3.96 min Scan# 680

Delta R.T. 0.00 min

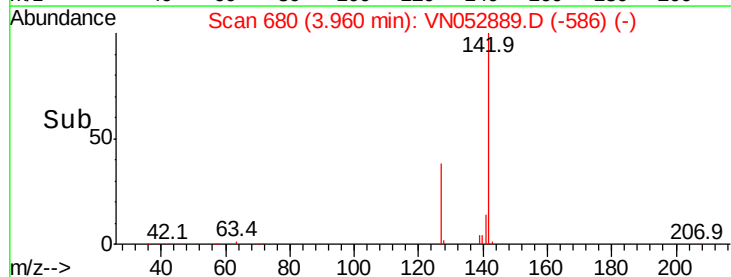
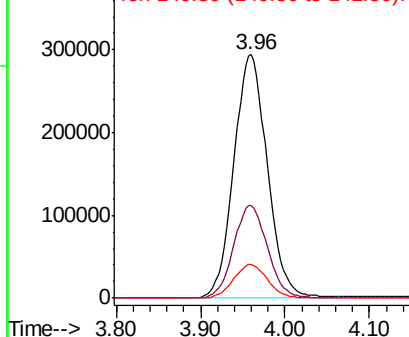
Lab File: VN052889.D

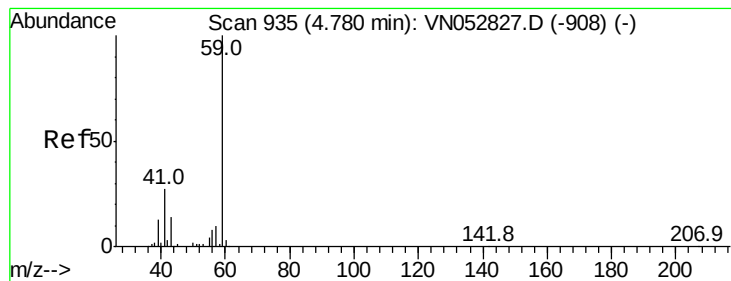
Acq: 14 Dec 2018 15:21

Tgt Ion:	142	Resp:	814939
Ion Ratio	Lower	Upper	
142	100		
127	38.3	31.0	46.6
141	14.0	11.2	16.8



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





#11

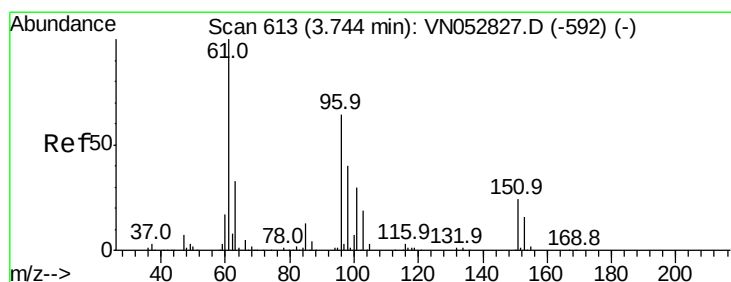
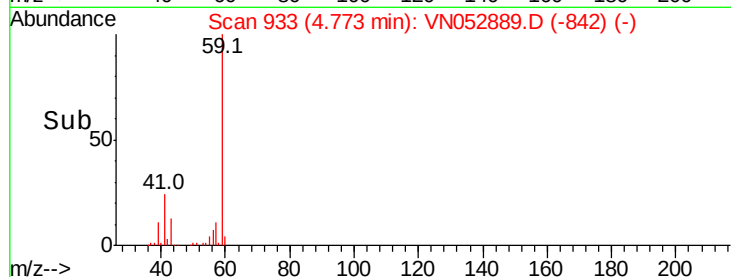
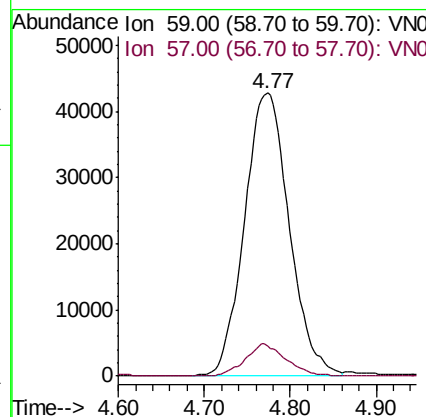
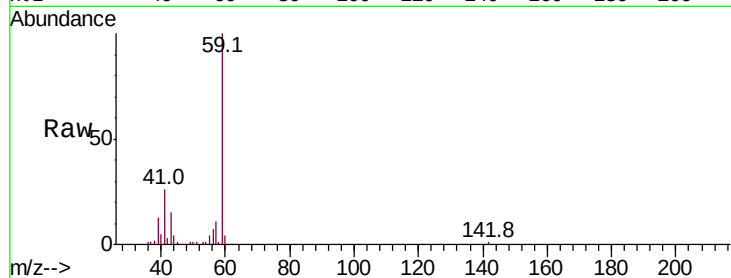
Tert butyl alcohol
Concen: 211.403 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.01 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	59	Resp	154943
Ion Ratio	100	Lower	Upper
57	10.4	7.7	11.5

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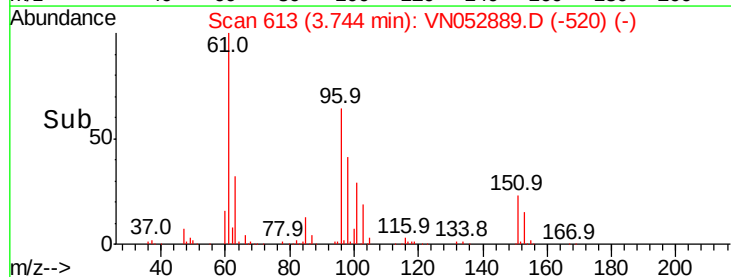
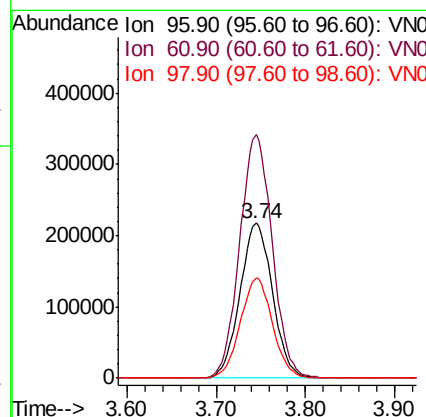
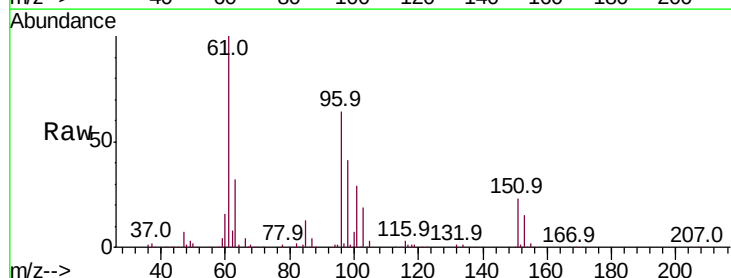
MMDadoda
12/17/2018 3:05:50 PM

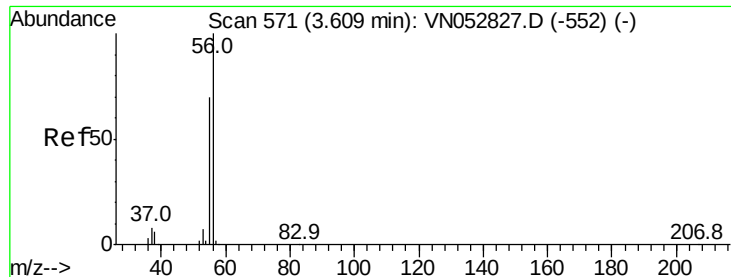


#12

1,1-Dichloroethene
Concen: 48.662 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	96	Resp	551931
Ion Ratio	100	Lower	Upper
61	157.4	125.6	188.4
98	64.8	50.6	75.8





#13

Acrolein

Concen: 79.335 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 54746

Ion Ratio Lower Upper

56 100

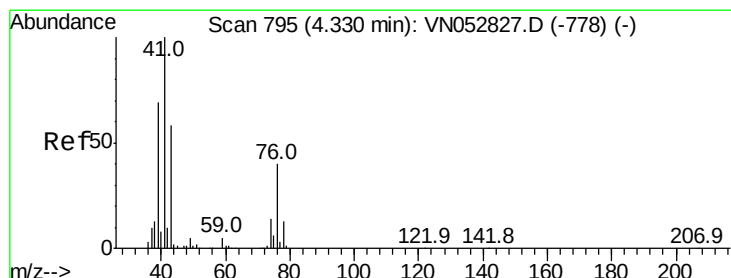
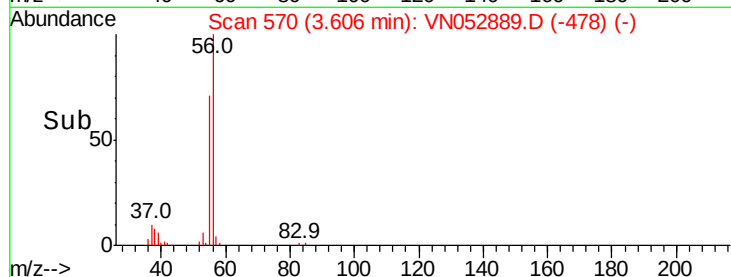
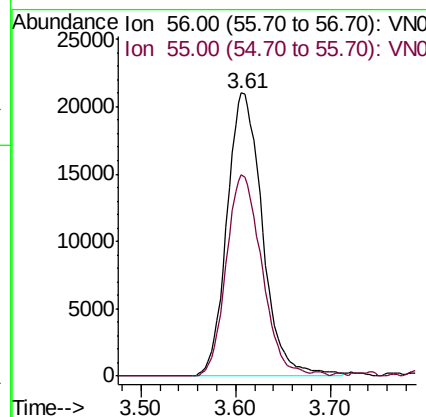
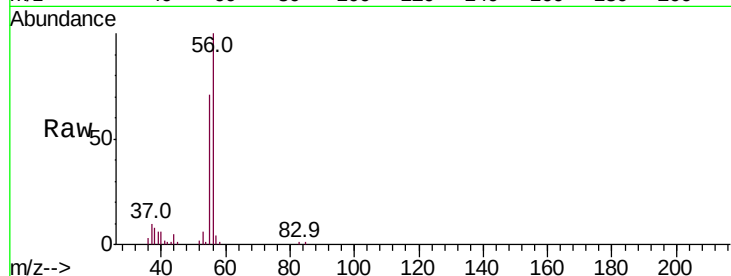
55 71.2 56.6 85.0

Manual Integrations

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#14

Allyl chloride

Concen: 49.155 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

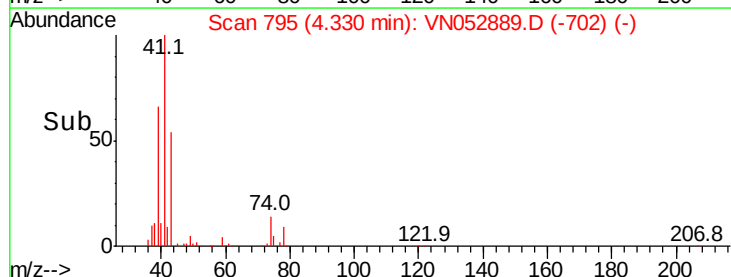
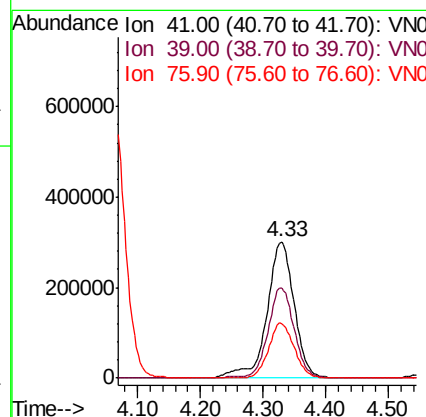
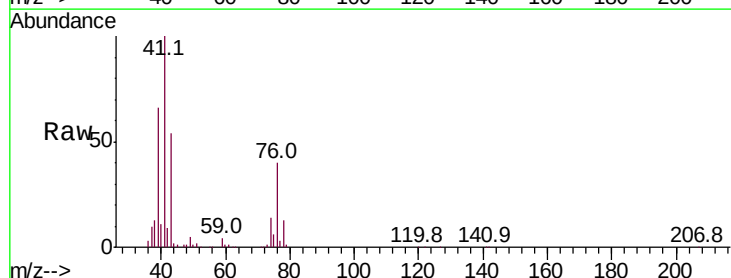
Tgt Ion: 41 Resp: 910619

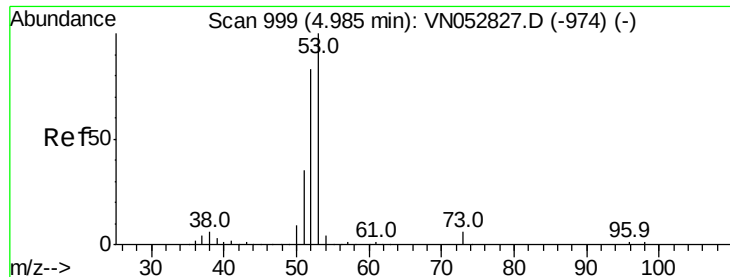
Ion Ratio Lower Upper

41 100

39 64.0 54.1 81.1

76 37.5 30.3 45.5





#15

Acrylonitrile

Concen: 225.633 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

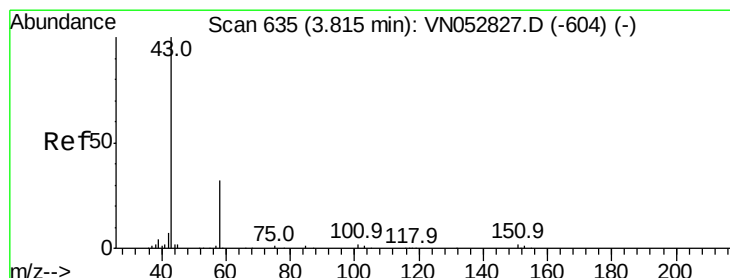
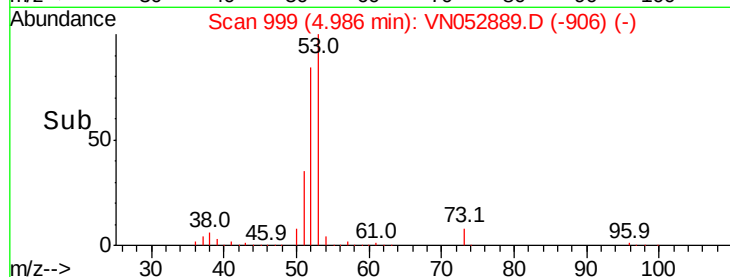
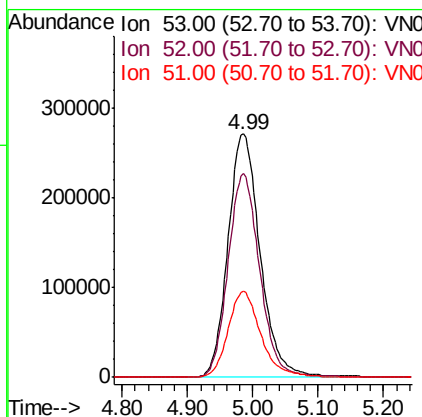
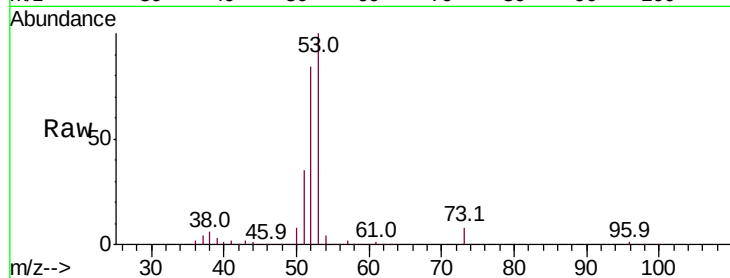
ClientSampleId :

VSTDCCC050

Tot Ion	53	Resp	927756
Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.1	97.7
51	36.1	28.1	42.1

Manual Integrations
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#16

Acetone

Concen: 205.743 ug/l

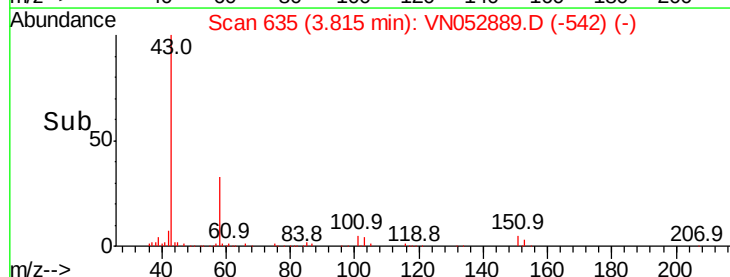
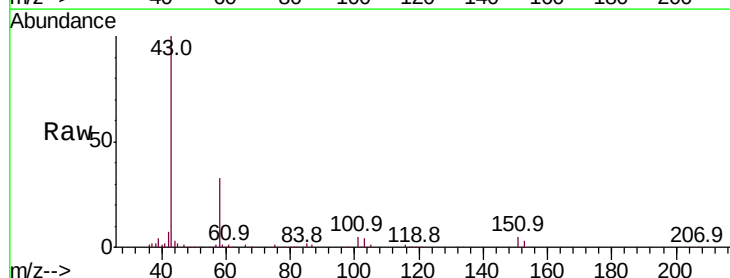
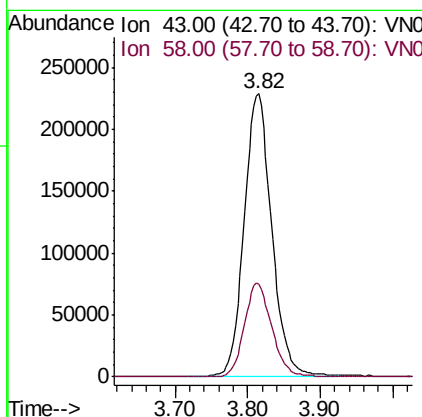
RT: 3.82 min Scan# 635

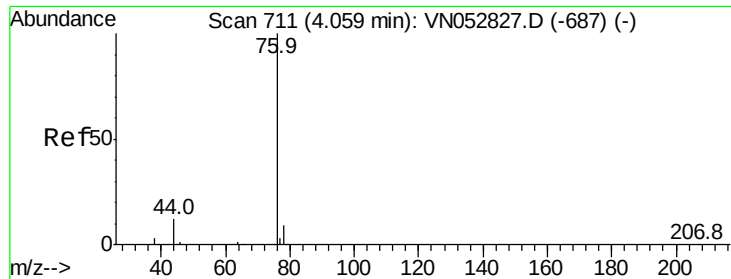
Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Tgt Ion	43	Resp	606123
Ion	Ratio	Lower	Upper
43	100		
58	32.7	25.4	38.0





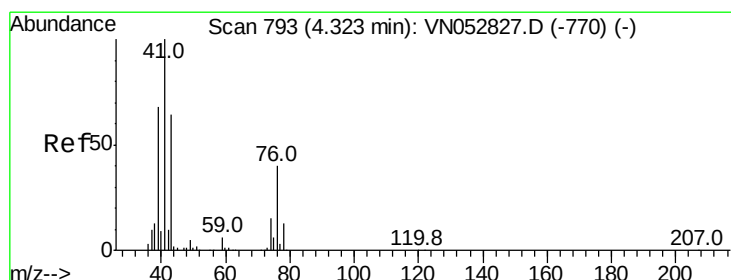
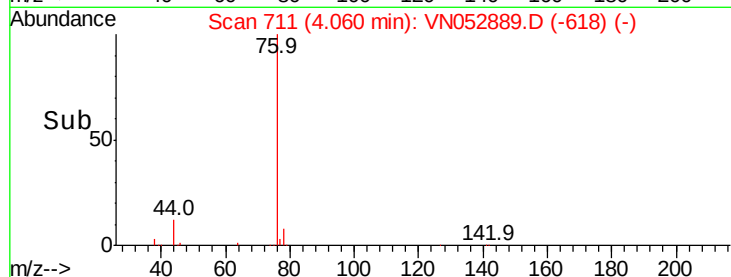
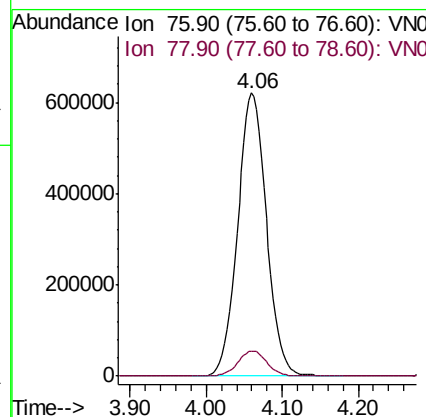
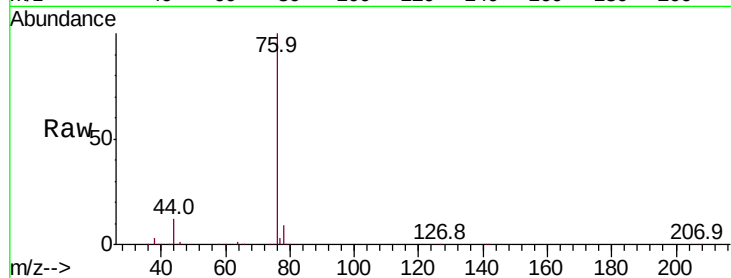
#17
Carbon Disulfide
Concen: 46.780 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 1629938
Ion Ratio Lower Upper
76 100
78 8.9 7.1 10.7

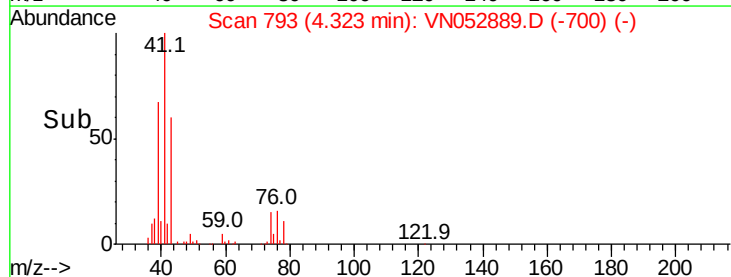
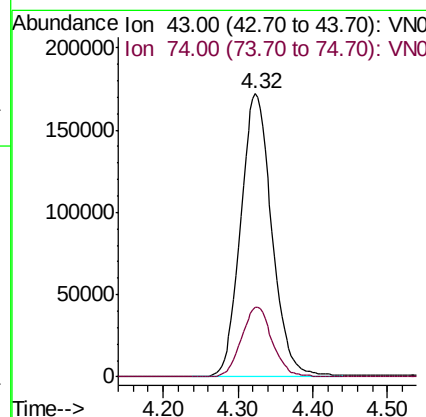
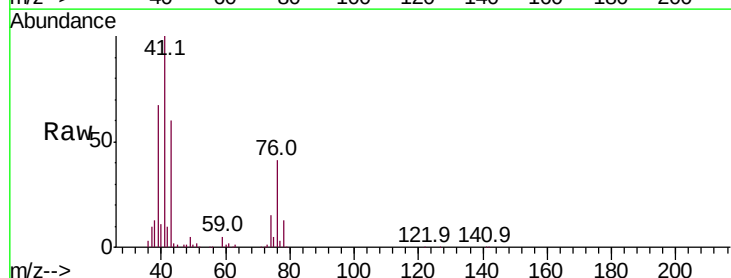
Manual Integrations
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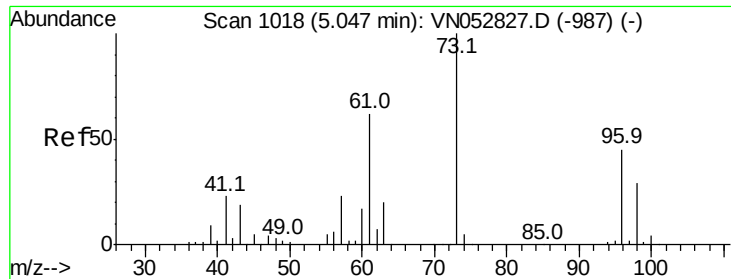
MMDadoda
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#18
Methyl Acetate
Concen: 46.019 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion: 43 Resp: 497550
Ion Ratio Lower Upper
43 100
74 24.4 19.2 28.8





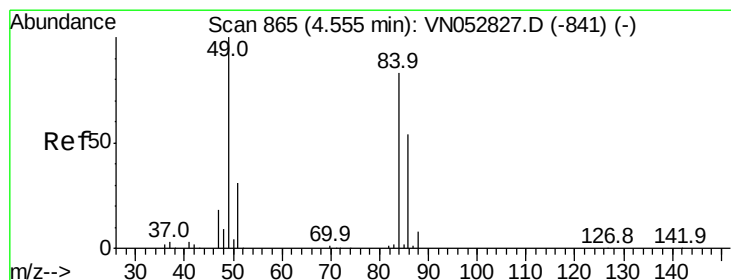
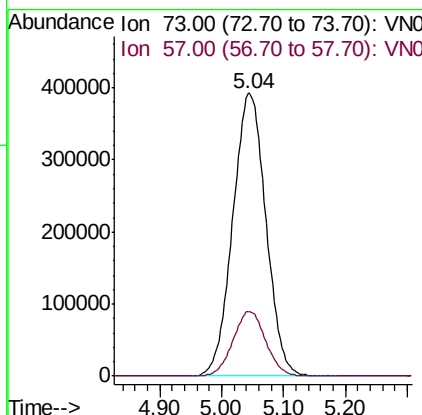
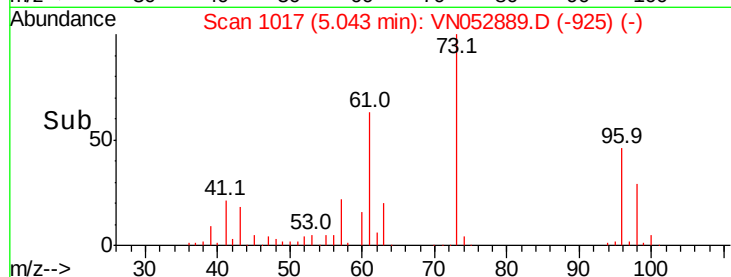
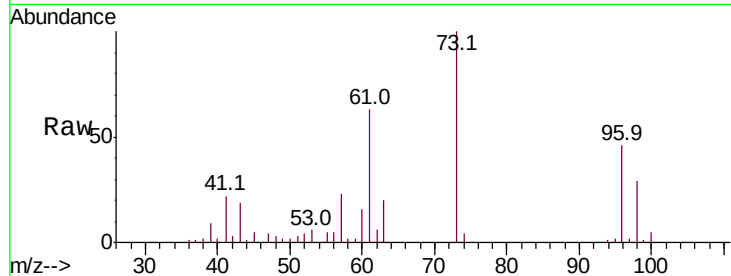
#19
Methyl tert-butyl Ether
Concen: 47.440 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 73 Resp: 1460736
Ion Ratio Lower Upper
73 100
57 23.0 18.4 27.6

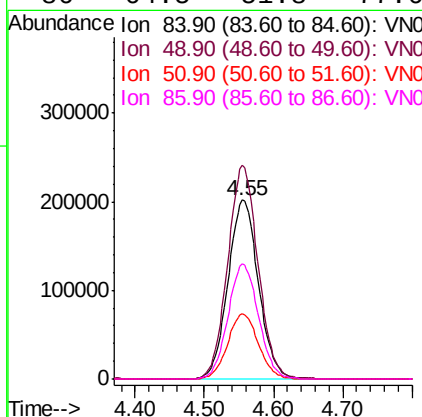
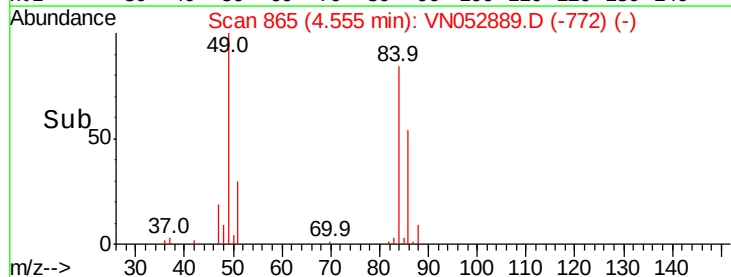
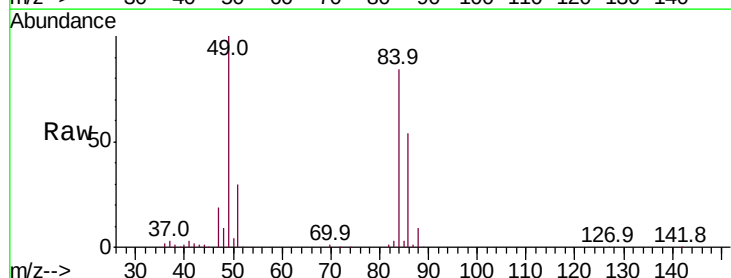
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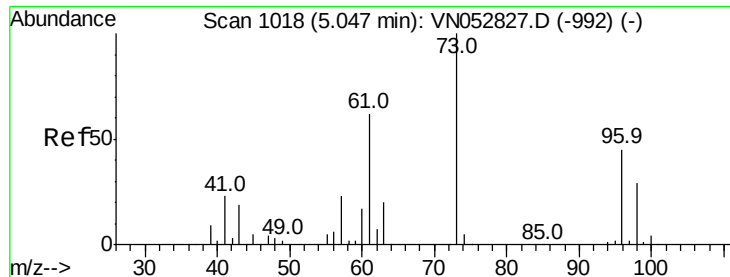
MMDadoda
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#20
Methylene Chloride
Concen: 46.876 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion: 84 Resp: 621472
Ion Ratio Lower Upper
84 100
49 119.4 96.8 145.2
51 36.4 29.9 44.9
86 64.5 51.8 77.6





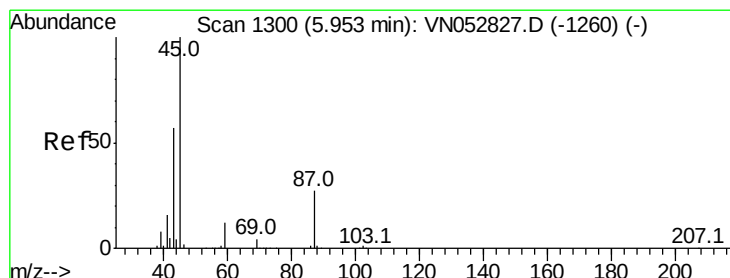
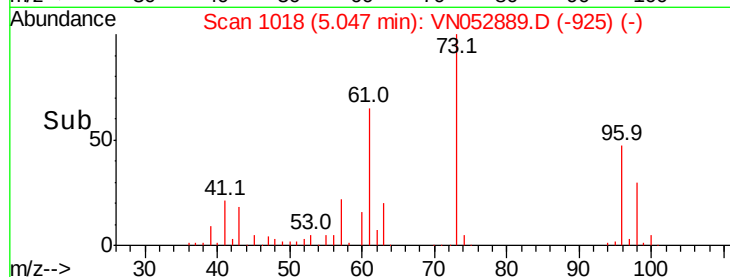
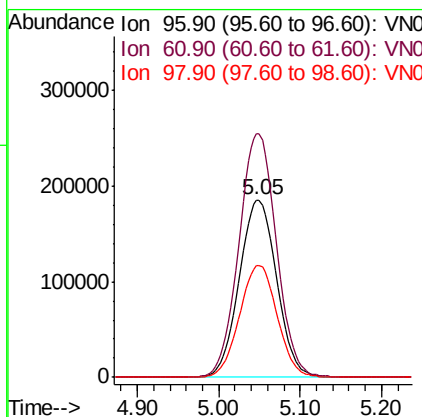
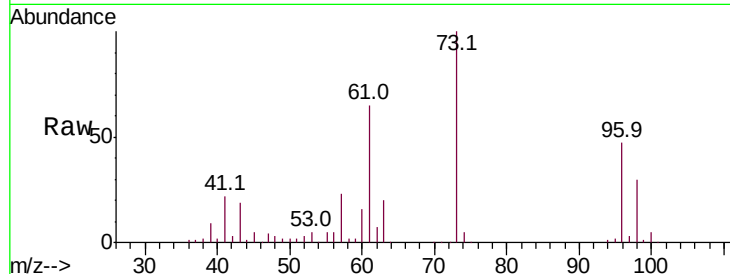
#21
trans-1,2-Dichloroethene
Concen: 47.919 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.2	110.8	166.2
98	62.8	51.4	77.2

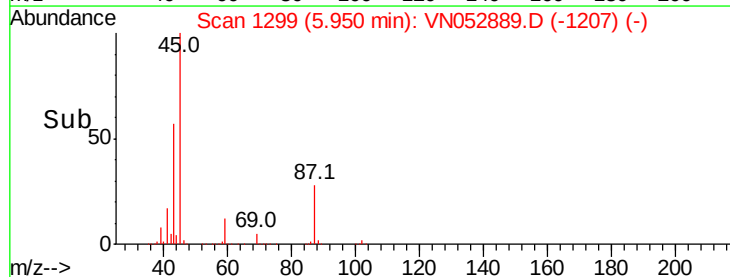
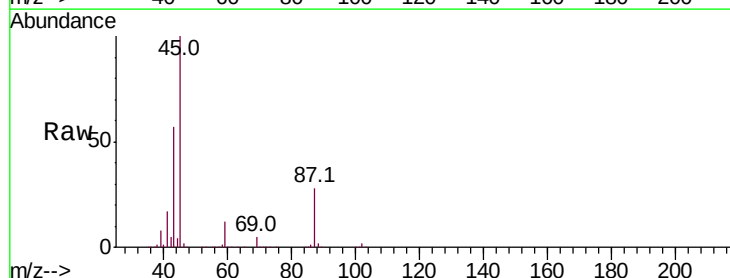
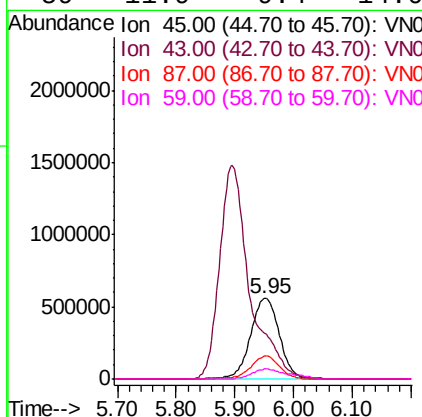
Manual Integrations
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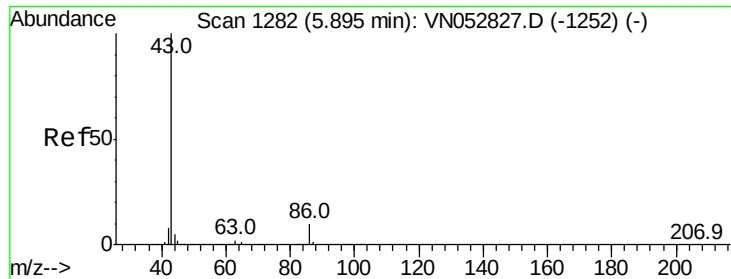
MMDadoda
12/17/2018 3:05:50 PM



#22
Diisopropyl ether
Concen: 48.004 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.3	45.5	68.3
87	28.1	22.0	33.0
59	11.9	9.4	14.0





#23

Vinyl Acetate

Concen: 224.124 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Tot Ion: 43 Resp: 5270727

Ion Ratio Lower Upper

43 100

86 10.4 8.1 12.1

Instrument :

MSVOA_N

ClientSampleId :

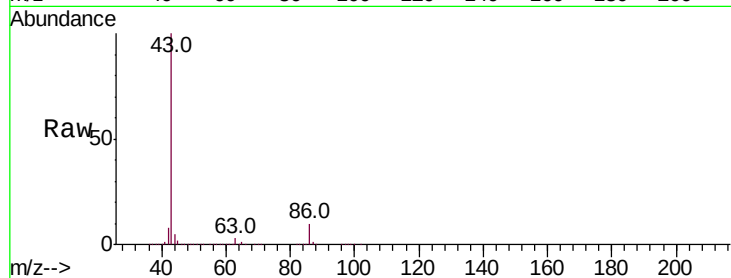
VSTDCCC050

Manual Integrations

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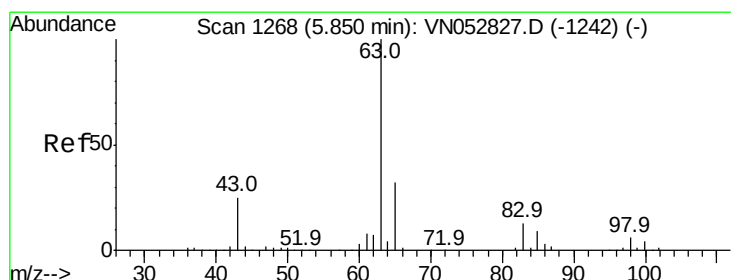
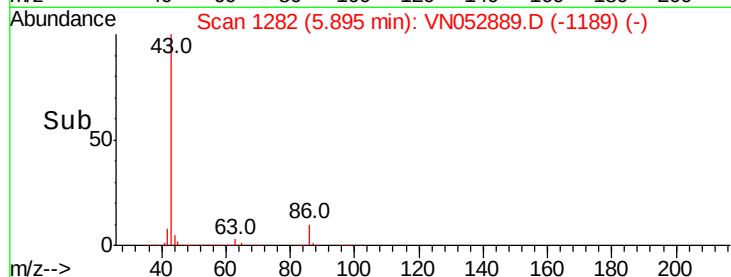
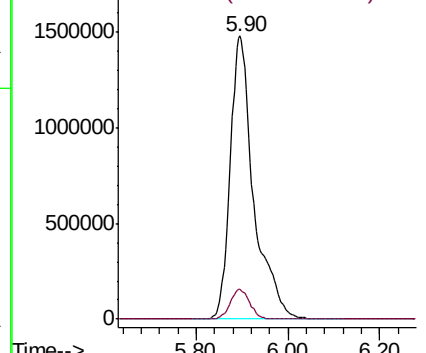
MMDadoda

12/17/2018 3:05:50 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: 48.116 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

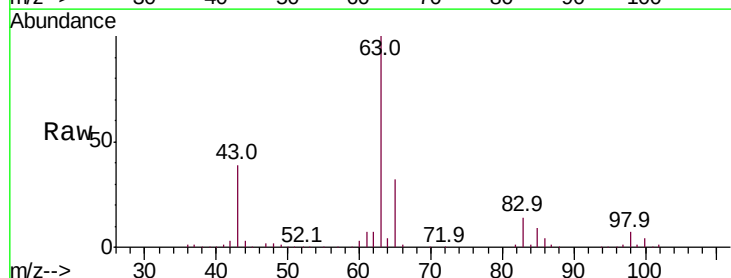
Tgt Ion: 63 Resp: 1096624

Ion Ratio Lower Upper

63 100

98 6.6 3.1 9.4

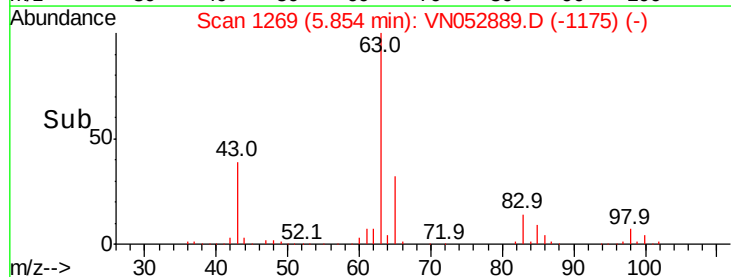
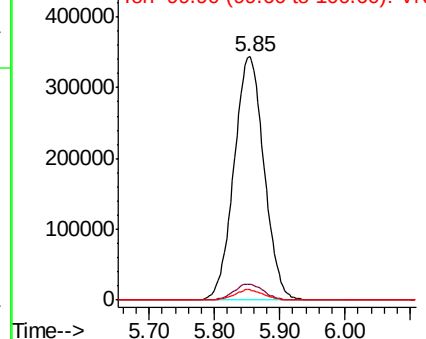
100 4.1 2.0 5.8

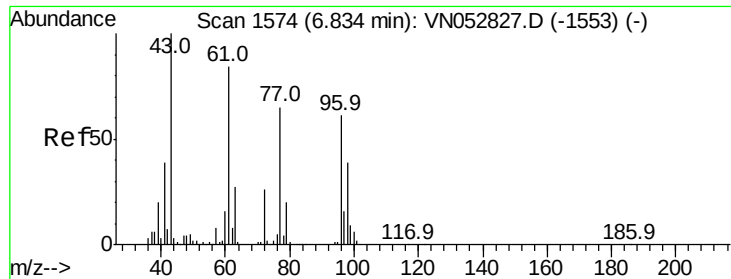


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 214.115 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 978760

Ion Ratio Lower Upper

43 100

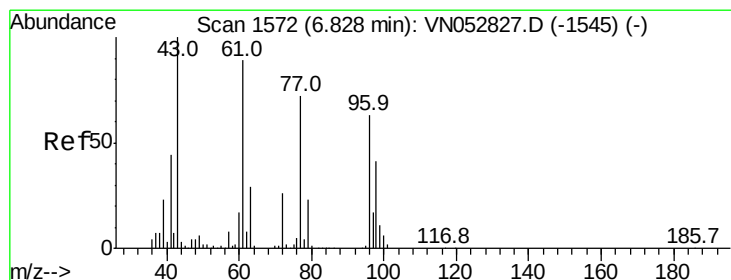
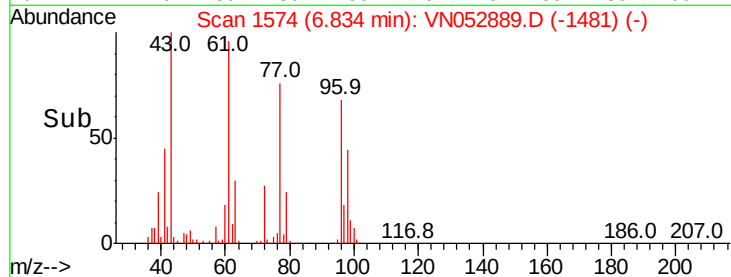
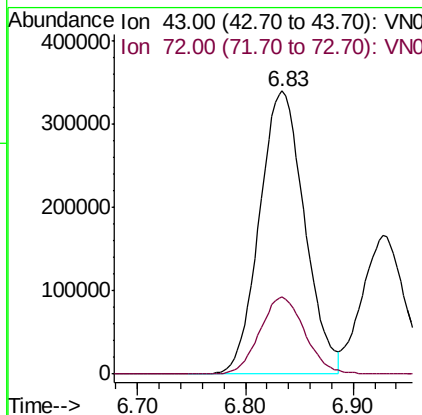
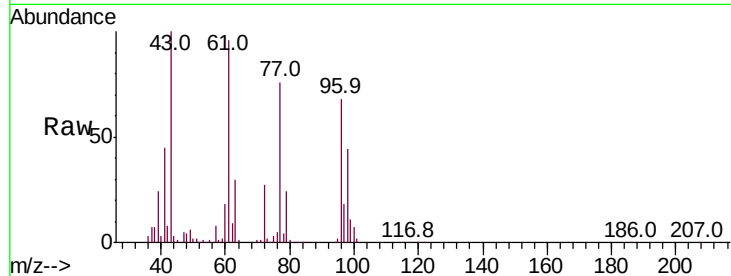
72 27.3 21.0 31.6

Manual Integrations

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12/17/2018 3:05:50 PM



#26

2,2-Dichloropropane

Concen: 50.575 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN052889.D

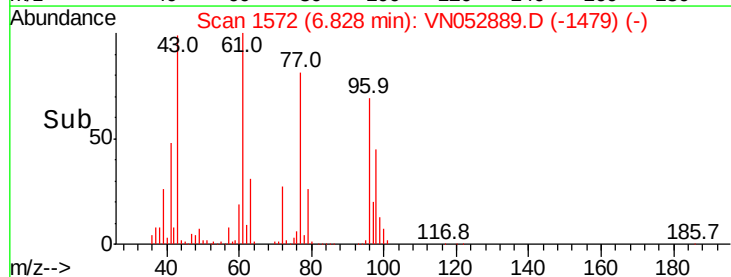
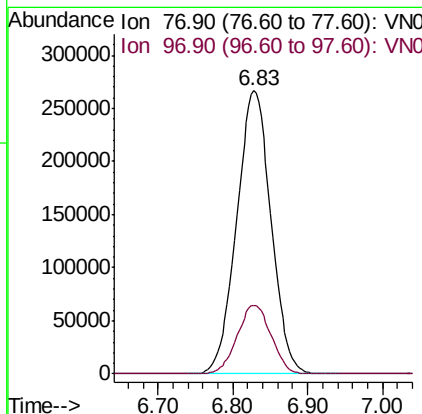
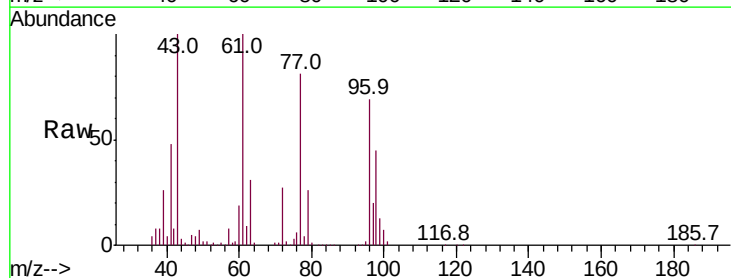
Acq: 14 Dec 2018 15:21

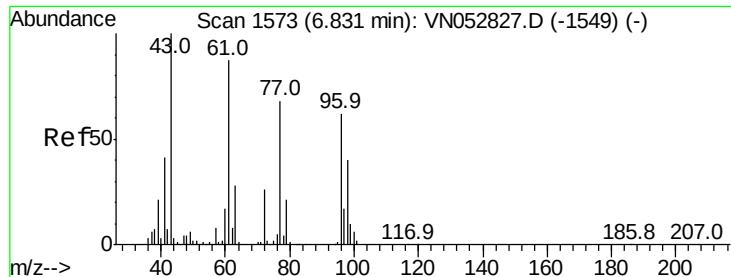
Tgt Ion: 77 Resp: 848842

Ion Ratio Lower Upper

77 100

97 24.1 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 48.322 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

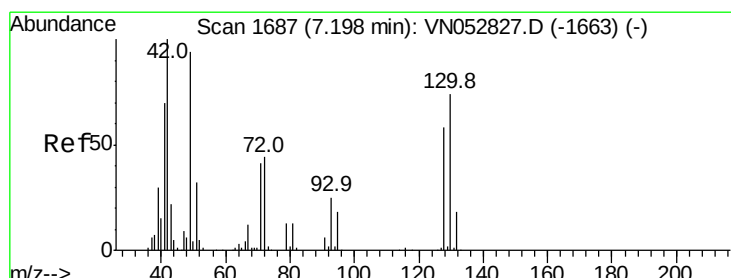
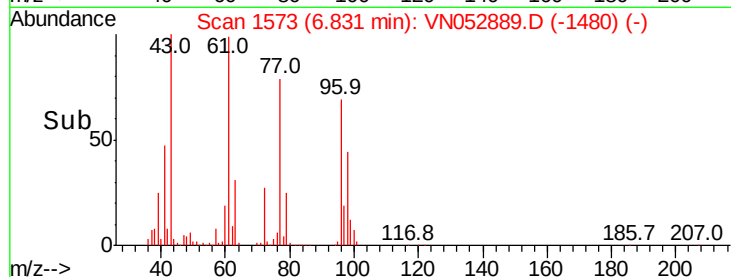
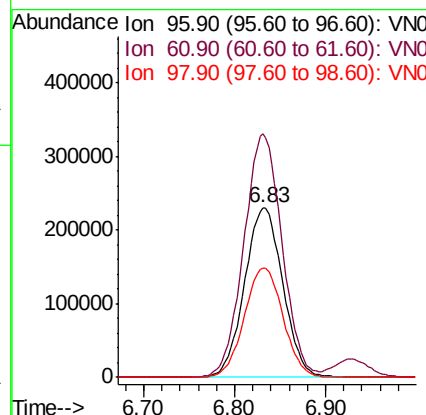
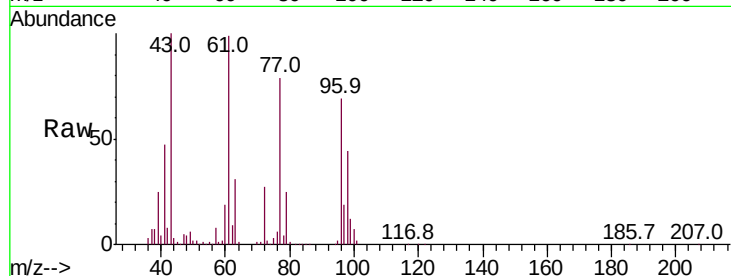
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	673919
Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	284.2
98	65.4	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 49.383 ug/l

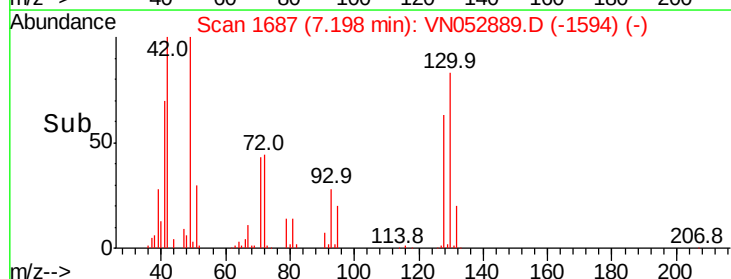
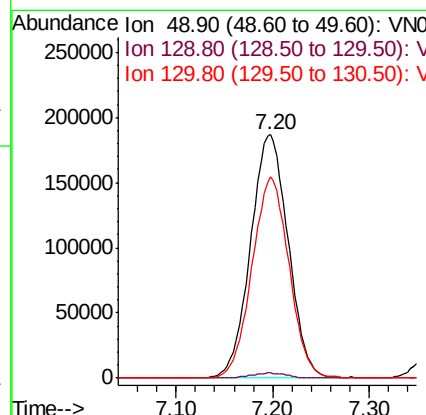
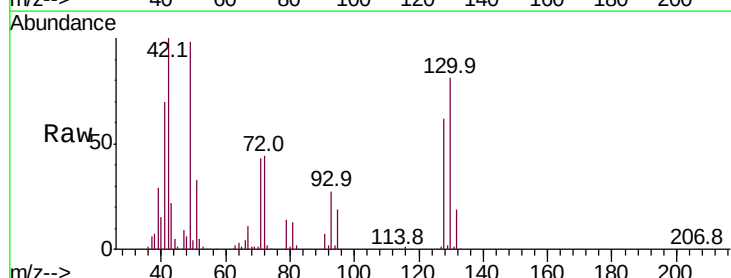
RT: 7.20 min Scan# 1687

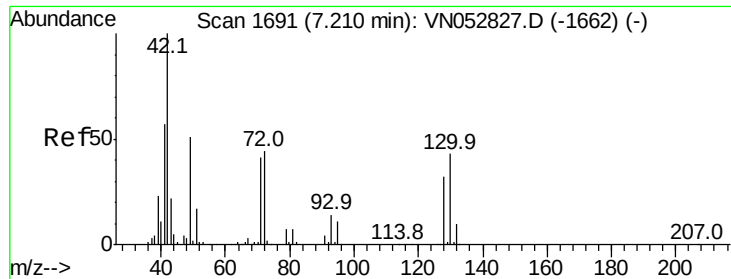
Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Tgt Ion:	49	Resp:	505394
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	81.2	63.3	94.9





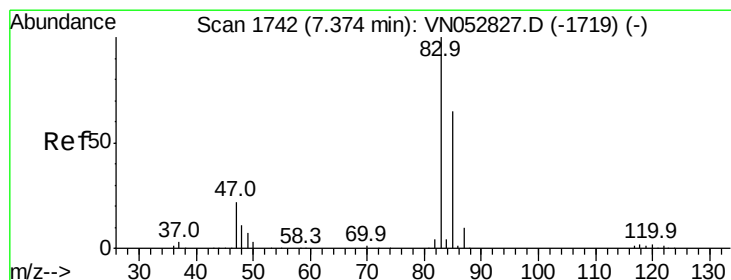
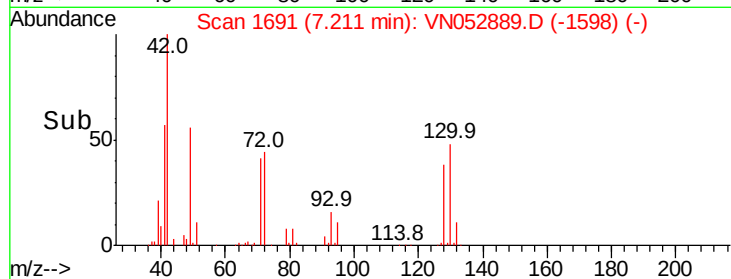
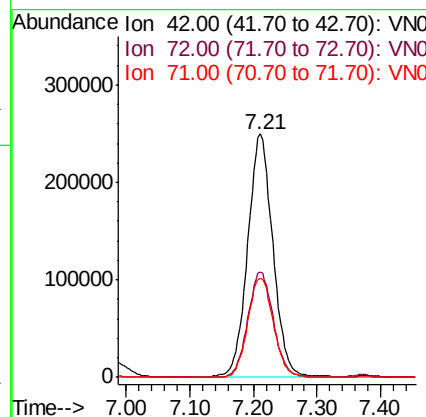
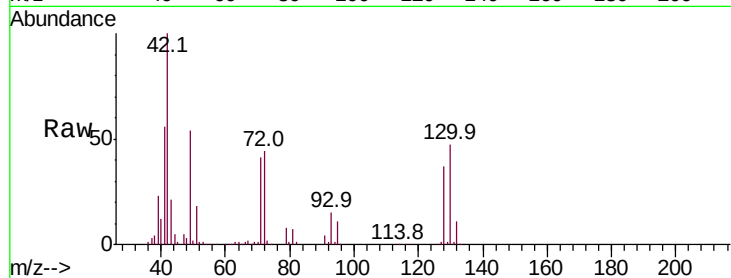
#29
Tetrahydrofuran
Concen: 219.875 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.7	52.1
71	41.7	32.3	48.5

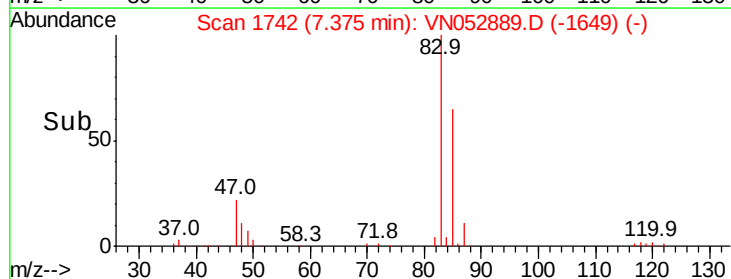
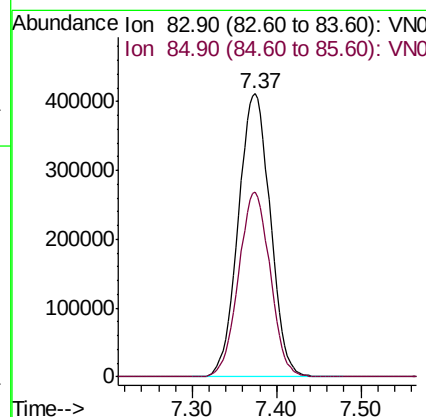
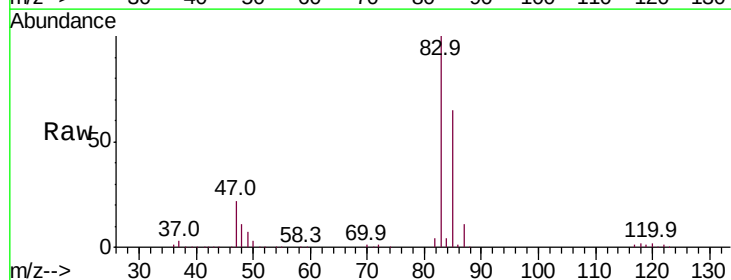
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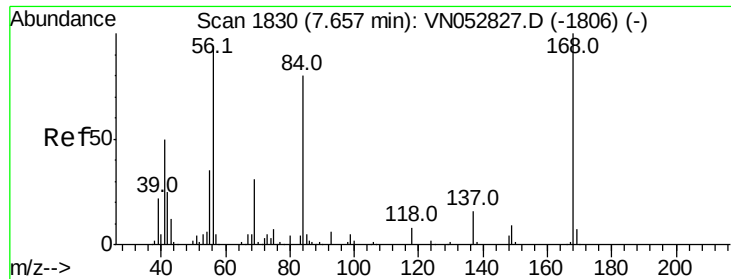
MMDadoda
12/17/2018 3:05:50 PM



#30
Chloroform
Concen: 48.838 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	52.1	78.1





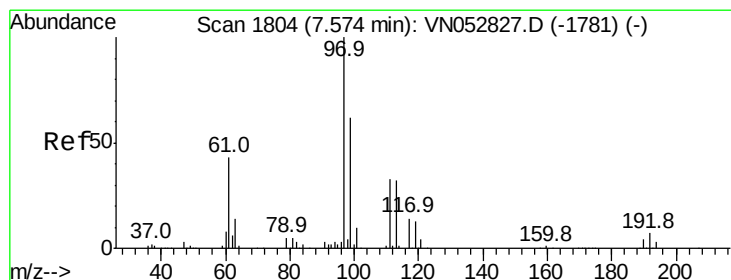
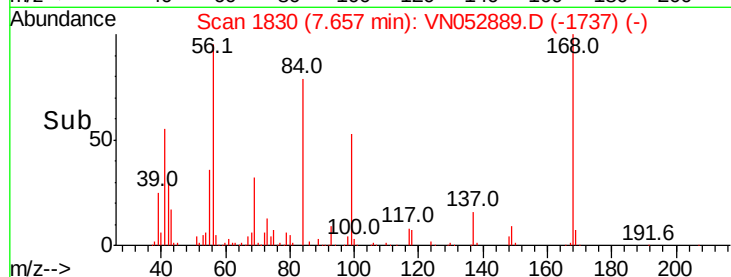
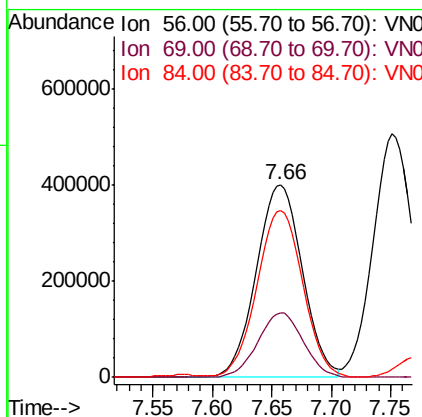
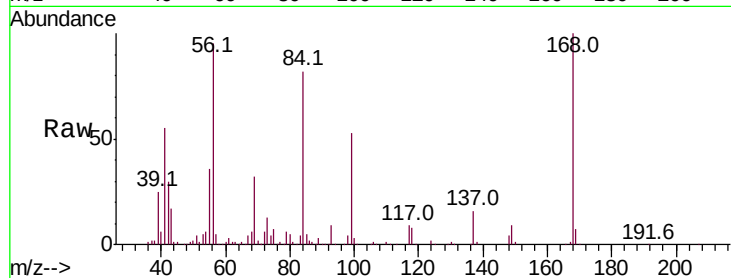
#31
Cyclohexane
Concen: 48.445 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 1077246
Ion Ratio Lower Upper
56 100
69 33.4 26.6 39.8
84 85.2 68.4 102.6

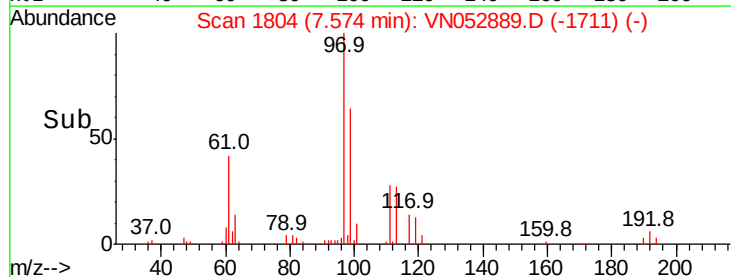
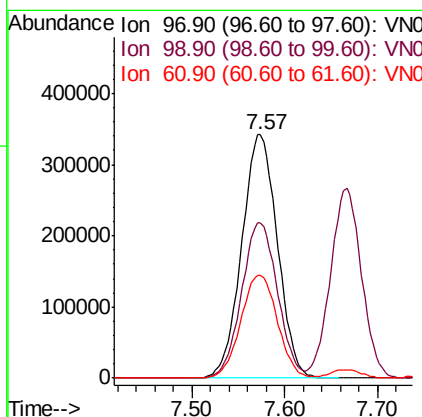
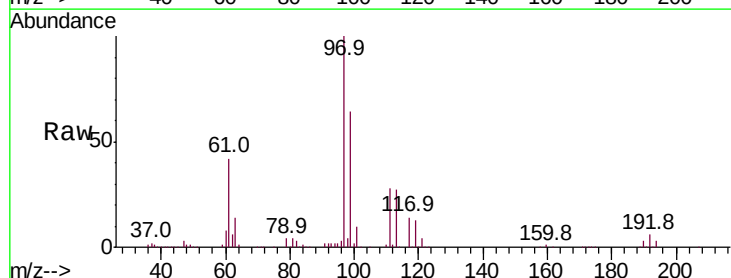
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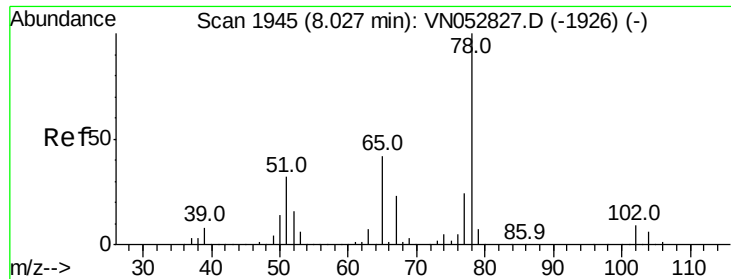
MMDadoda
12/17/2018 3:05:50 PM



#32
1,1,1-Trichloroethane
Concen: 49.052 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion: 97 Resp: 912124
Ion Ratio Lower Upper
97 100
99 64.5 51.1 76.7
61 43.4 35.0 52.6





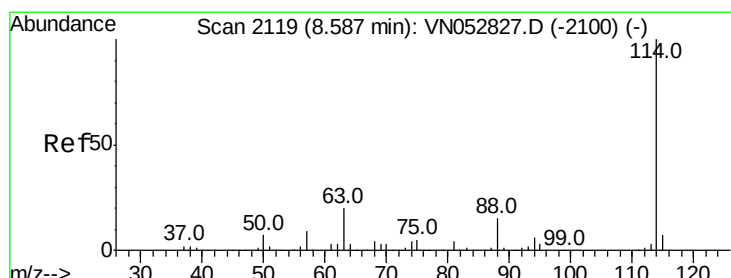
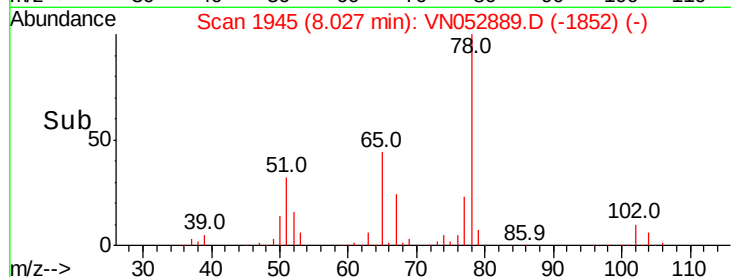
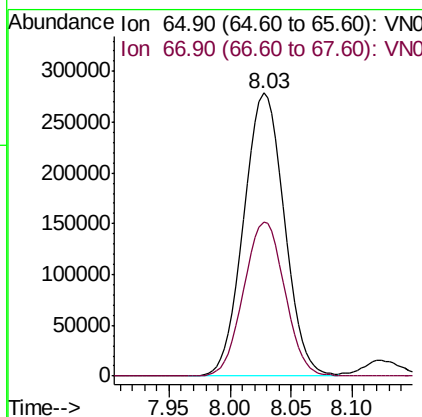
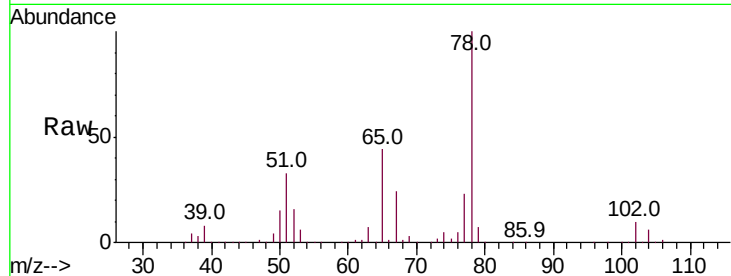
#33
 1,2-Dichloroethane-d4
 Concen: 49.052 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	643317		
67	54.9	0.0	110.4	

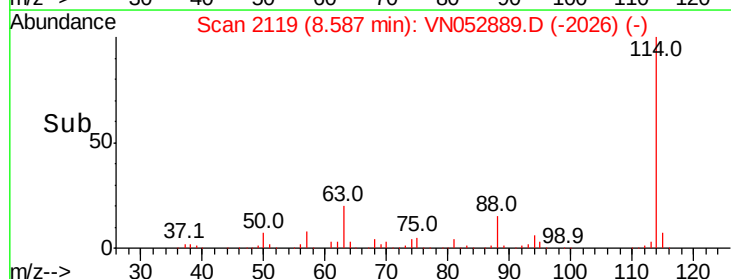
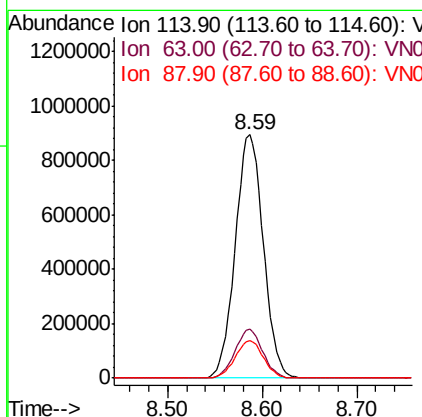
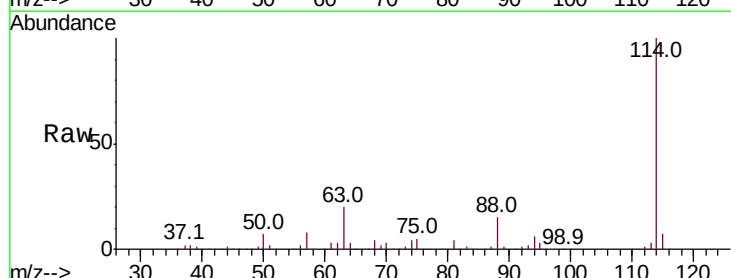
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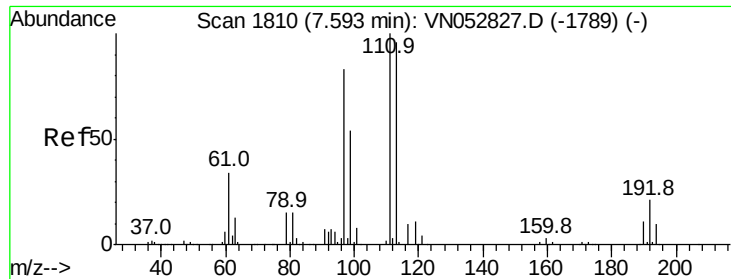
MMDadoda
 12/17/2018 3:05:50 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1842926		
63	20.0	0.0	39.8	
88	15.3	0.0	31.0	





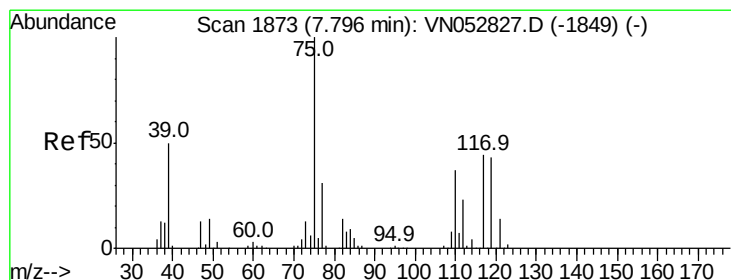
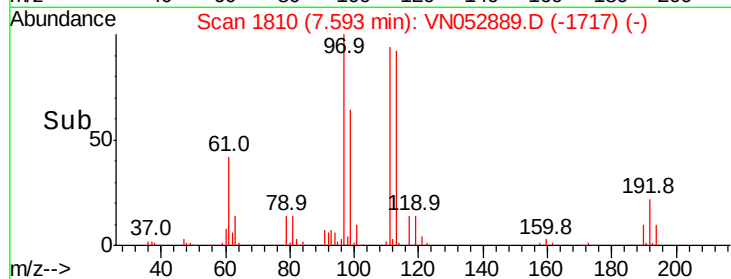
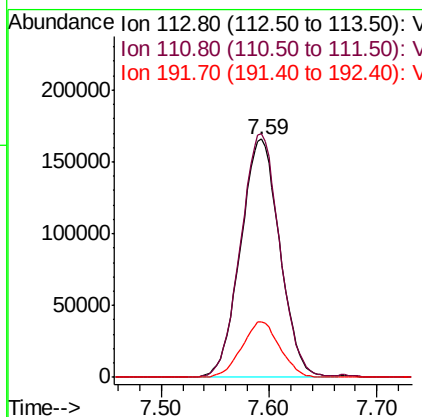
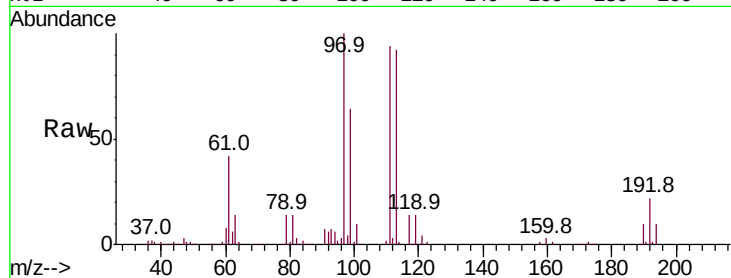
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.0	124.4
192	22.6	17.5	26.3

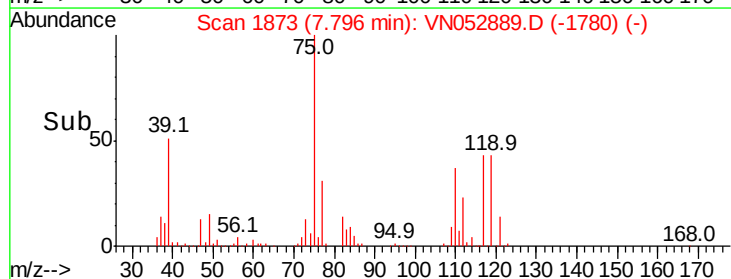
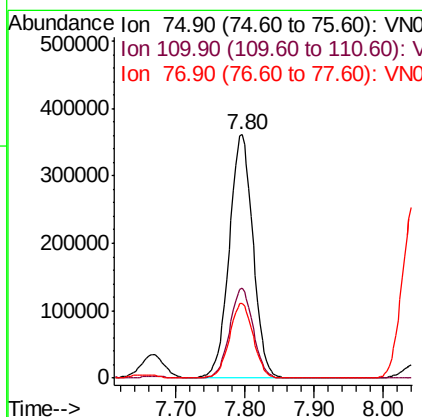
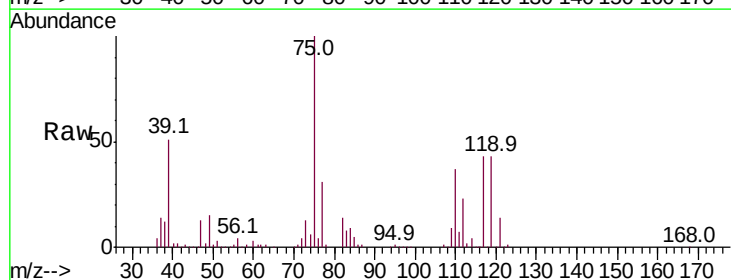
Manual Integrations
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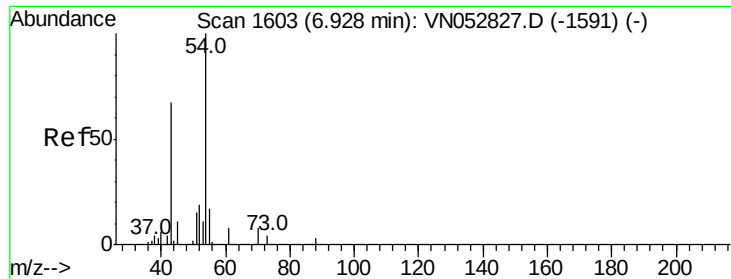
MMDadoda
 12/17/2018 3:05:50 PM



#36
 1,1-Dichloropropene
 Concen: 51.076 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.4	18.2	54.6
77	30.9	24.9	37.3





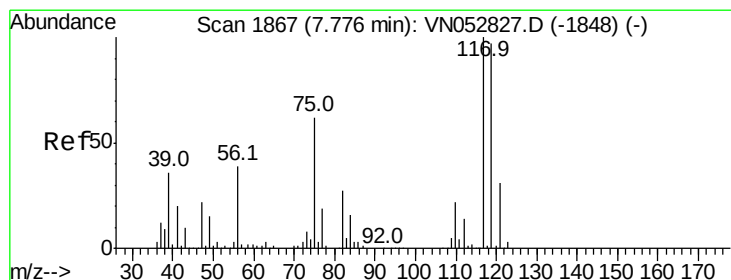
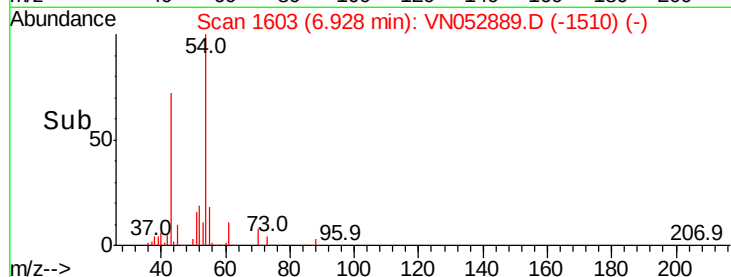
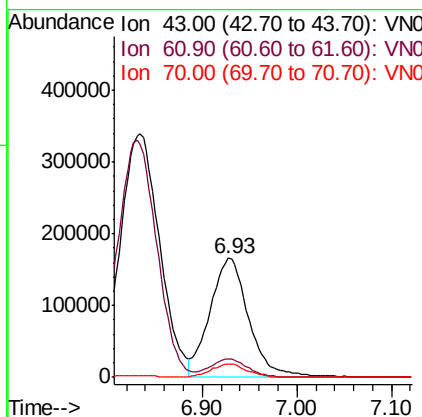
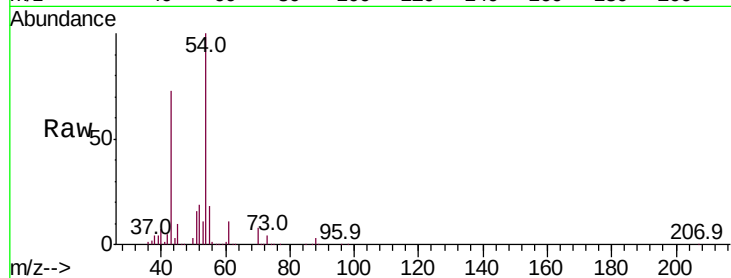
#37
Ethyl Acetate
Concen: 45.623 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.8	17.6
70	10.5	8.4	12.6

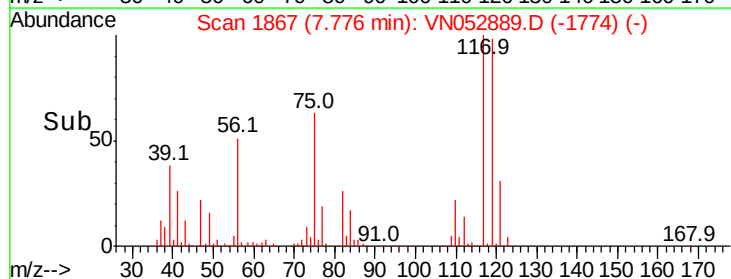
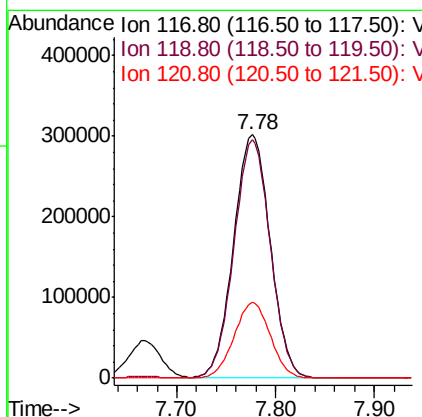
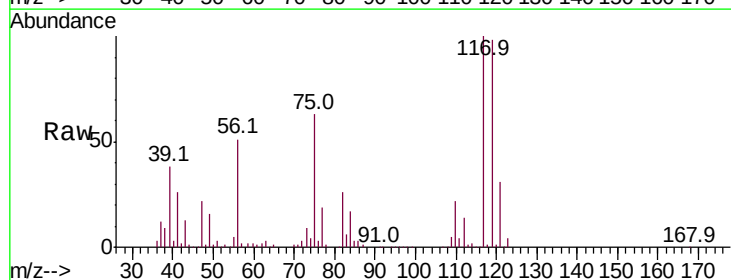
Manual Integrations
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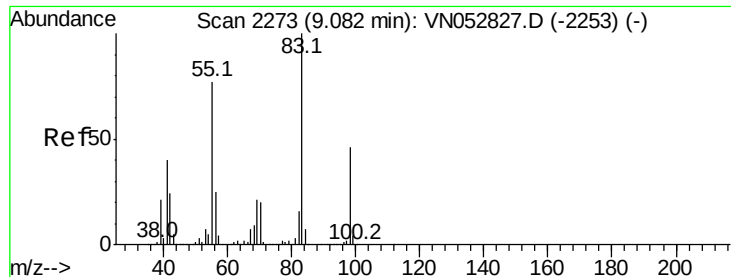
MMDadoda
12/17/2018 3:05:50 PM



#38
Carbon Tetrachloride
Concen: 49.876 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.7	77.1	115.7
121	31.2	24.9	37.3





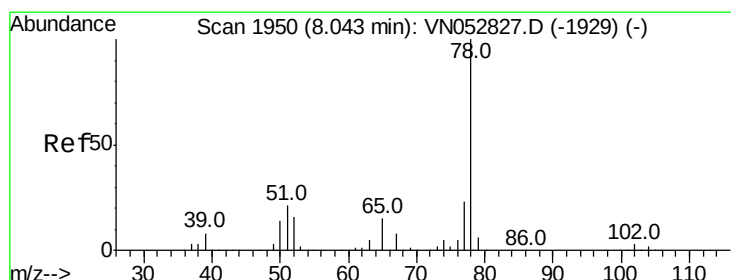
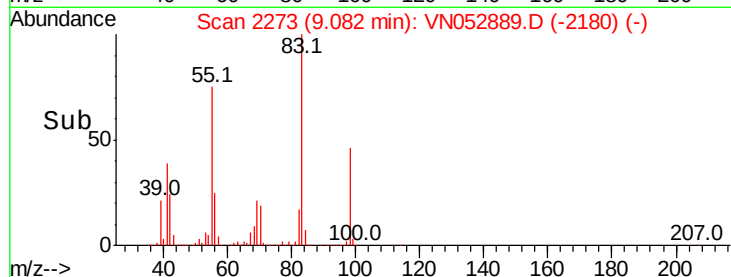
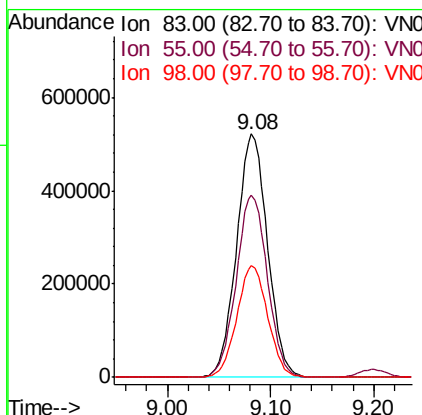
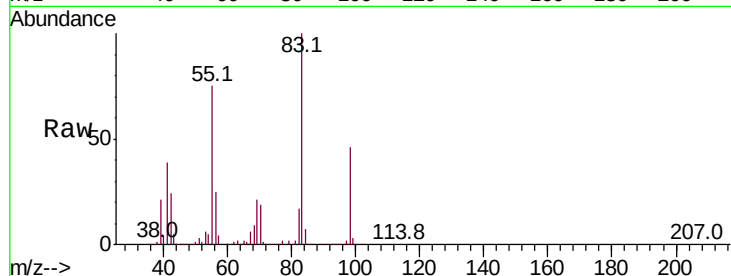
#39
Methylvlcyclohexane
Concen: 52.227 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 83 Resp: 1087685
Ion Ratio Lower Upper
83 100
55 74.9 61.3 91.9
98 46.0 37.0 55.4

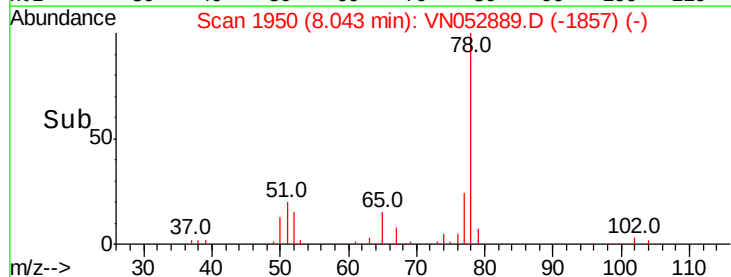
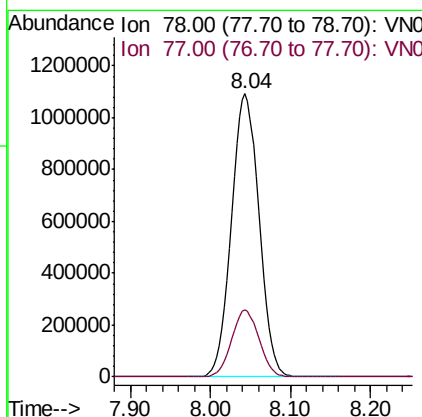
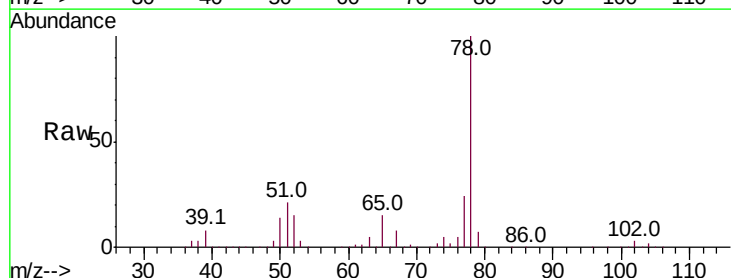
Manual Integrations
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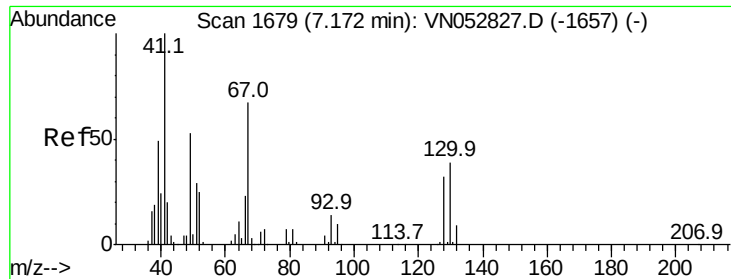
MMDadoda
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#40
Benzene
Concen: 49.973 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion: 78 Resp: 2545401
Ion Ratio Lower Upper
78 100
77 23.7 18.5 27.7





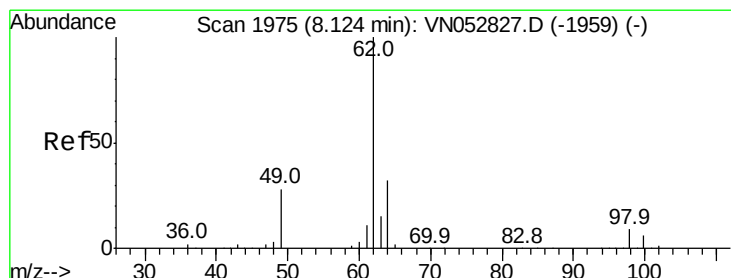
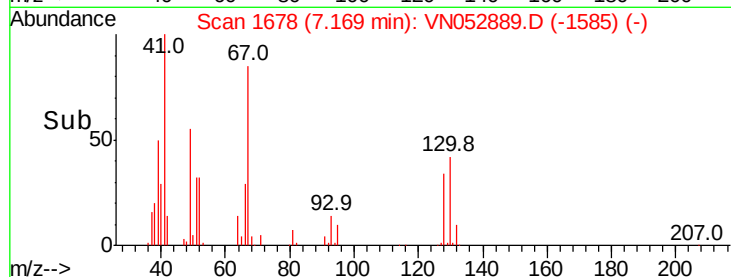
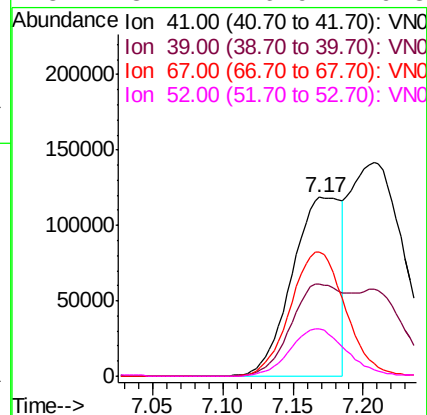
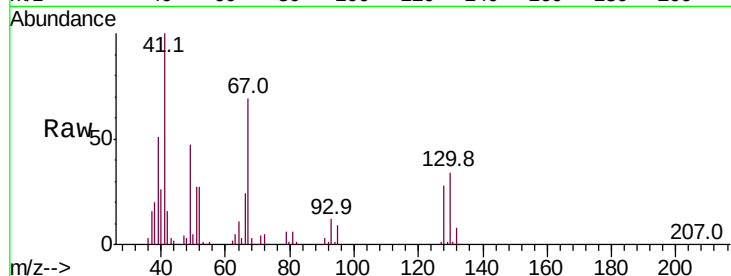
#41
Methacrylonitrile
Concen: 50.530 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	66.0	48.0	72.0	
67	78.5	70.3	105.5	
52	31.1	26.9	40.3	

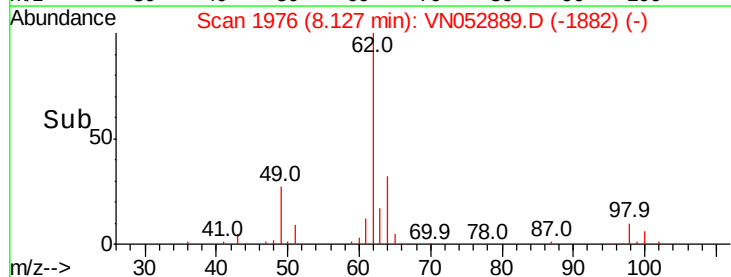
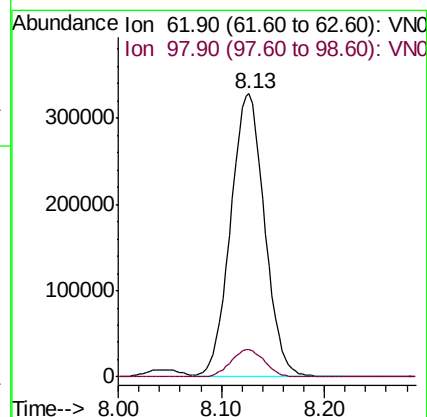
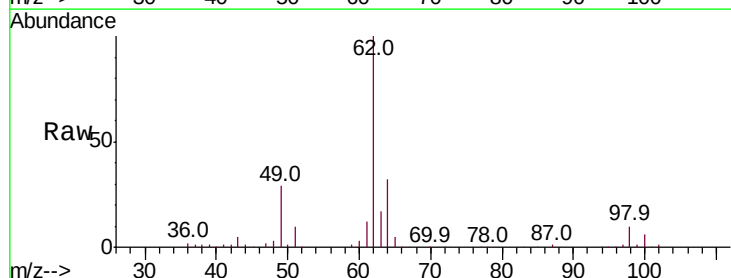
Manual Integrations
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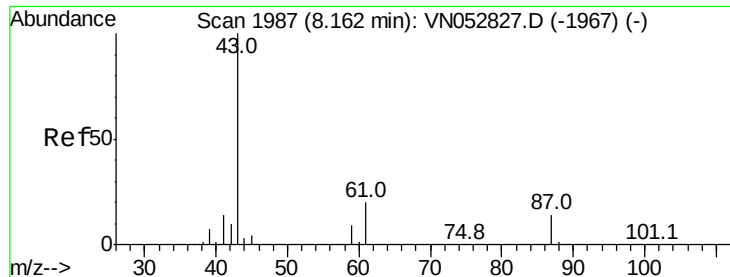
MMDadoda
12/17/2018 3:05:50 PM



#42
1,2-Dichloroethane
Concen: 49.040 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.7	0.0	19.0	





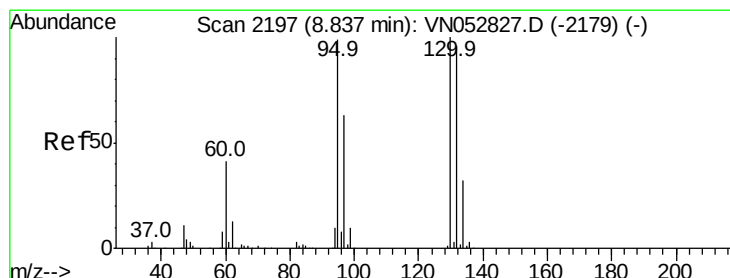
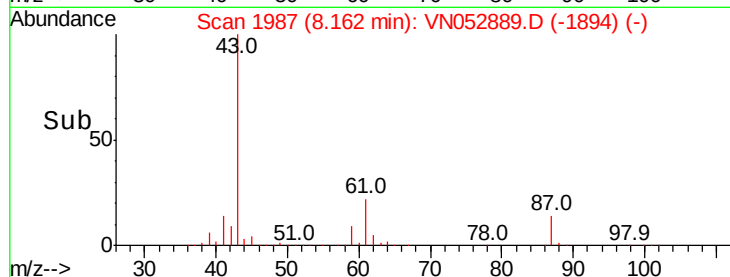
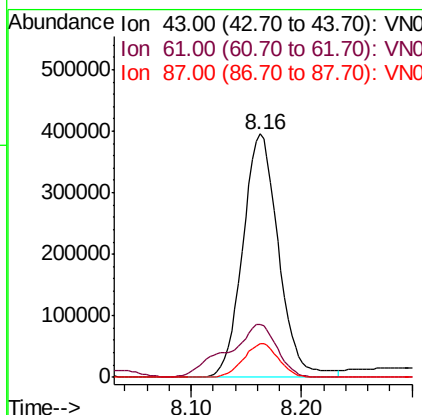
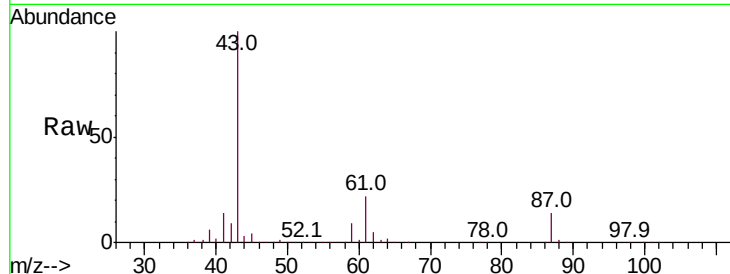
#43
Isopropyl Acetate
Concen: 42.479 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.5	22.9	34.3
87	13.6	10.6	15.8

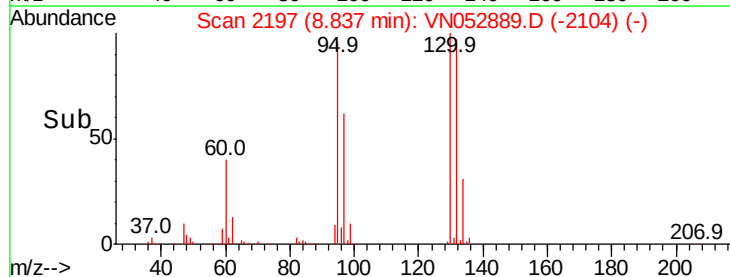
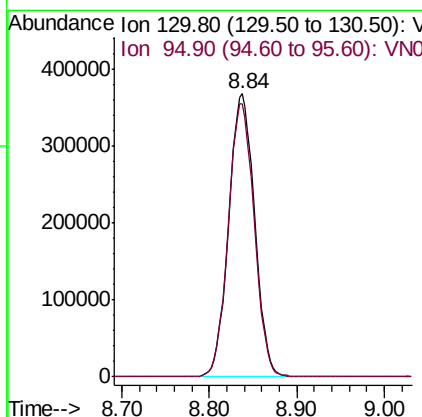
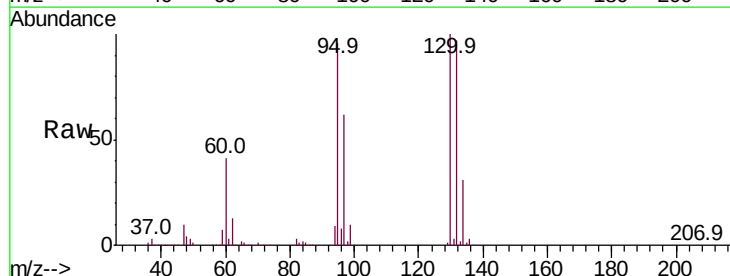
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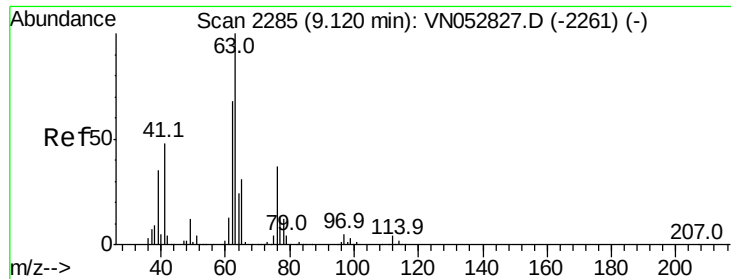
MMDadoda
12/17/2018 3:05:50 PM



#44
Trichloroethene
Concen: 54.792 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.4	0.0	197.8





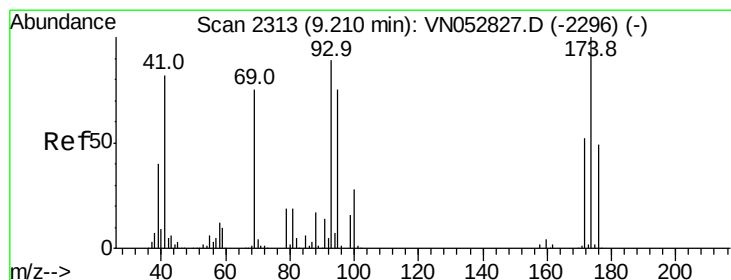
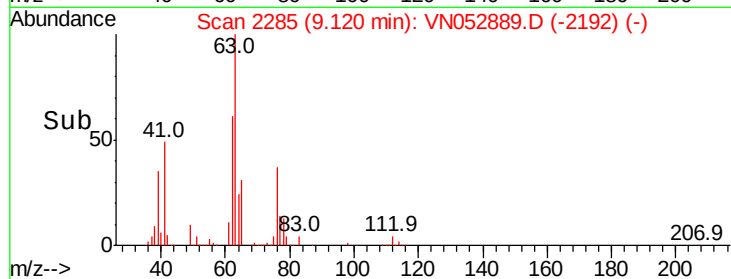
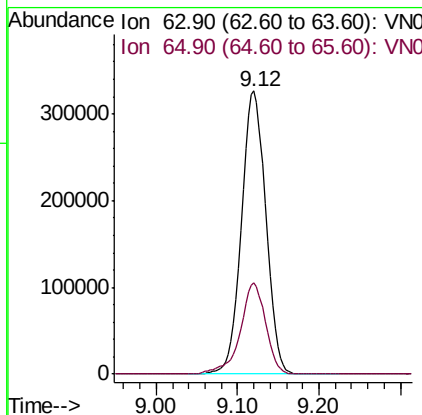
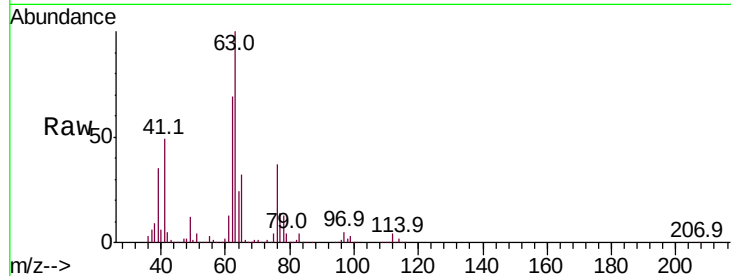
#45
 1,2-Dichloropropane
 Concen: 50.235 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.2	24.6	37.0

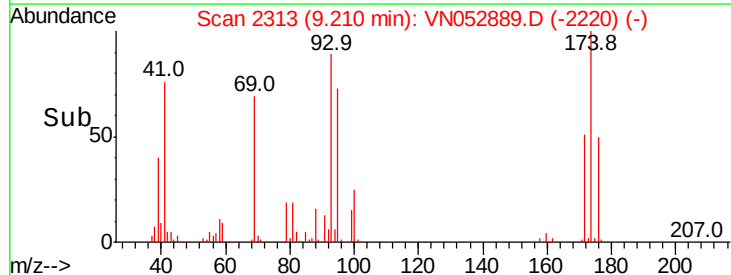
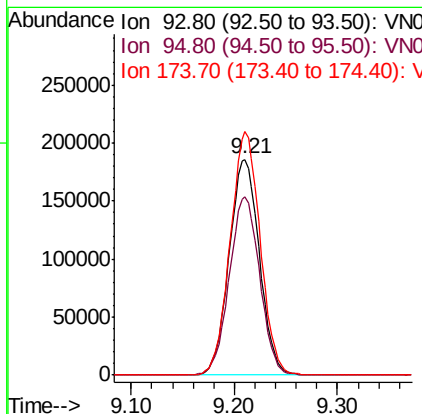
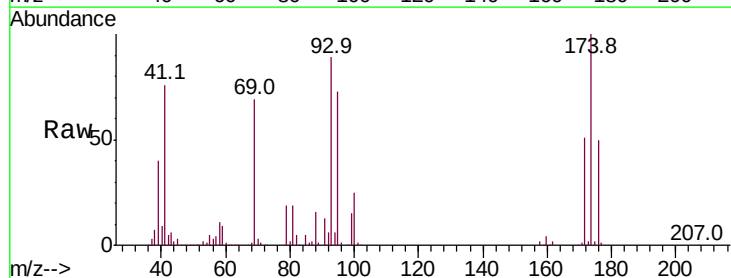
Manual Integrations
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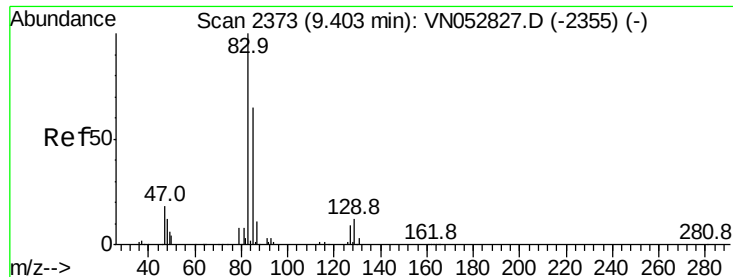
MMDadoda
 12/17/2018 3:05:50 PM



#46
 Dibromomethane
 Concen: 49.016 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.3	67.8	101.6
174	112.2	89.0	133.4





#47

Bromodichloromethane

Concen: 50.447 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

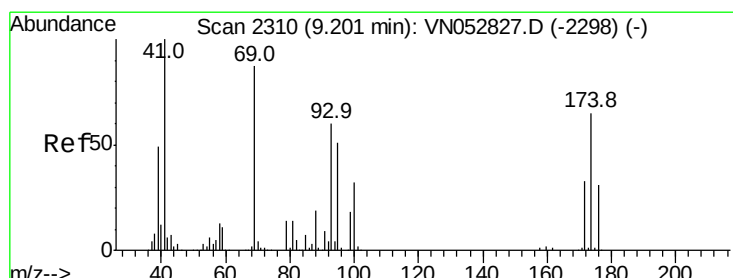
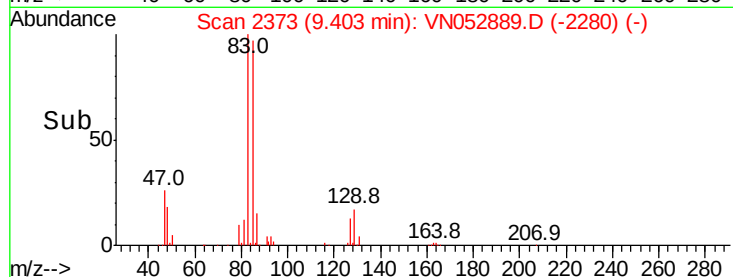
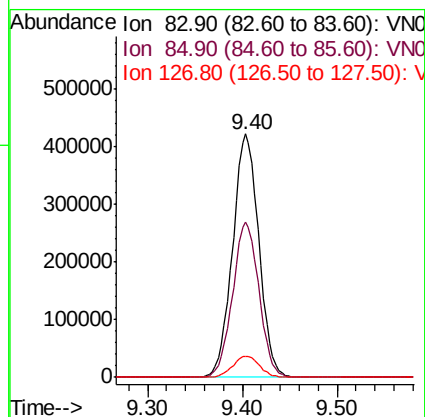
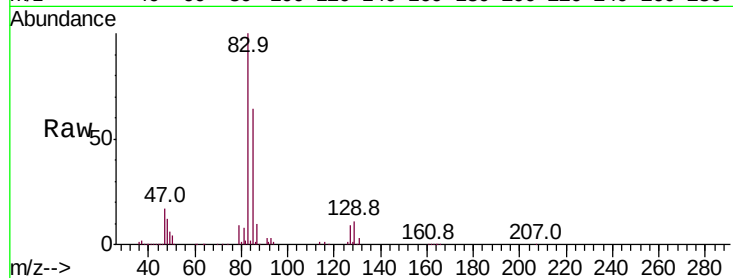
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	809402
Ion Ratio	Lower	Upper	
83	100		
85	63.6	51.6	77.4
127	8.8	7.1	10.7

Manual Integrations
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#48

Methyl methacrylate

Concen: 49.158 ug/l

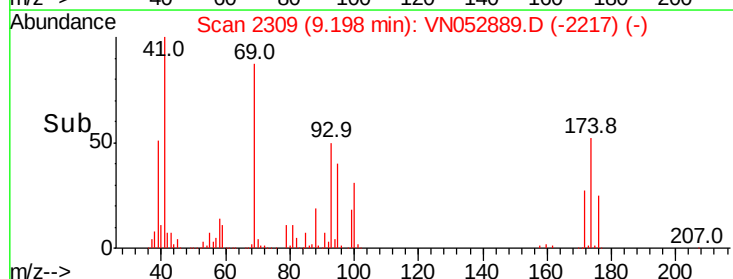
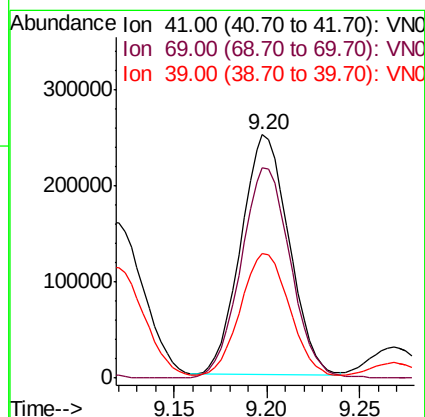
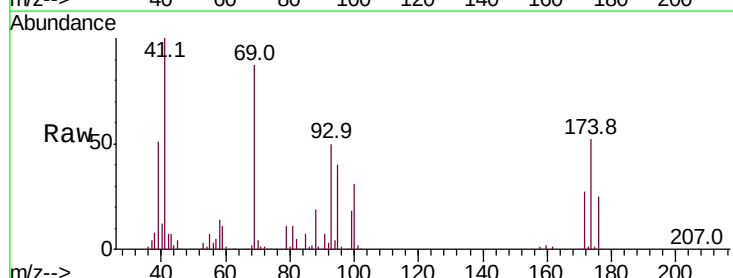
RT: 9.20 min Scan# 2309

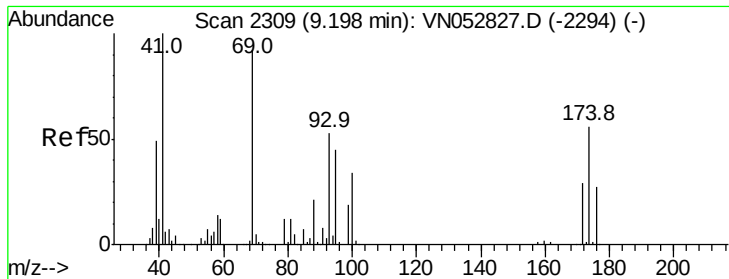
Delta R.T. -0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Tgt Ion:	41	Resp:	450619
Ion Ratio	Lower	Upper	
41	100		
69	90.8	72.2	108.2
39	53.6	41.9	62.9





#49

1,4-Dioxane

Concen: 953.340 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

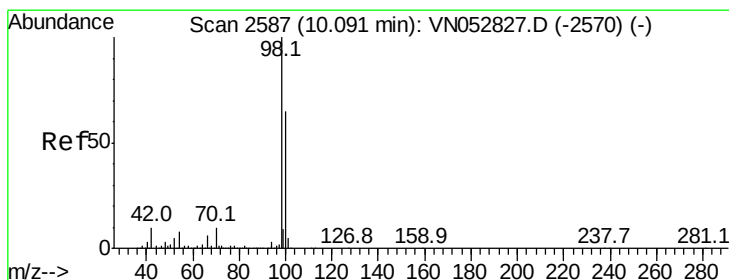
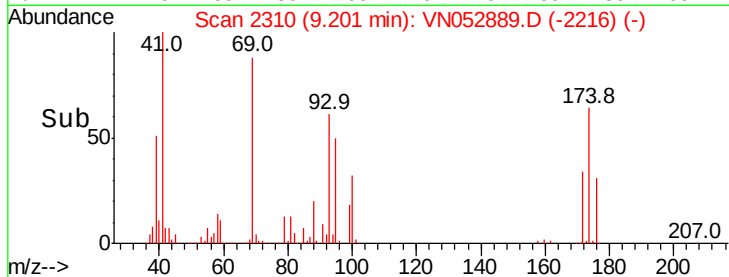
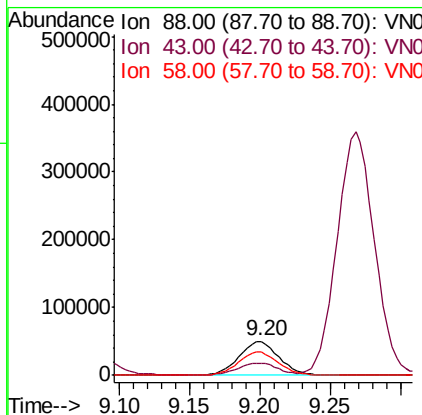
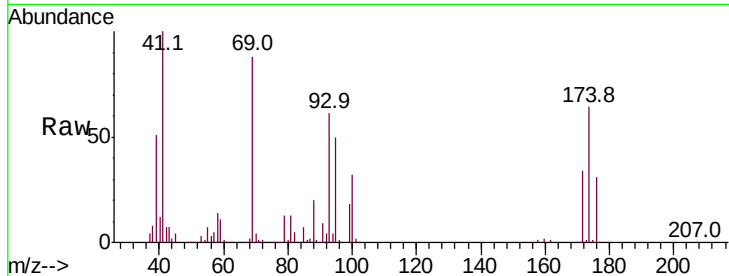
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	99195
Ion Ratio	Lower	Upper	
88	100		
43	33.7	26.6	40.0
58	69.9	58.4	87.6

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#50

Toluene-d8

Concen: 953.340 ug/l

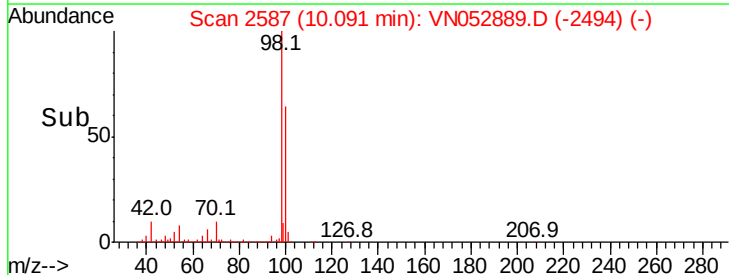
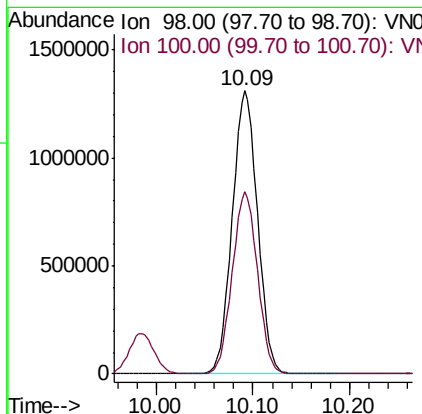
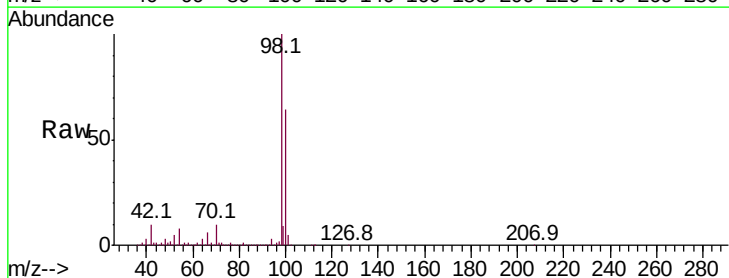
RT: 10.09 min Scan# 2587

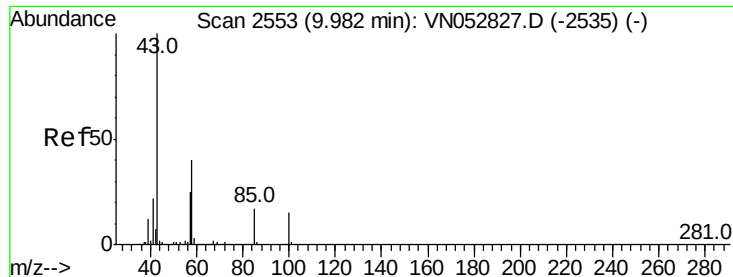
Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Tgt Ion:	98	Resp:	2371018
Ion Ratio	Lower	Upper	
98	100		
100	64.4	51.6	77.4





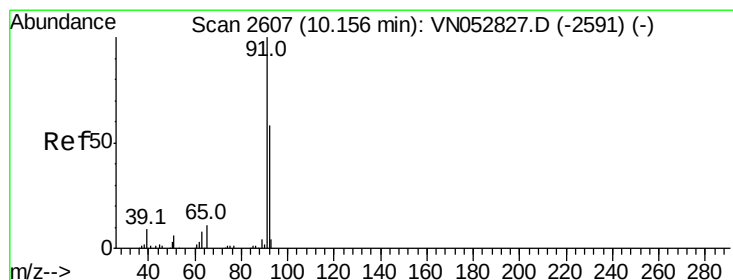
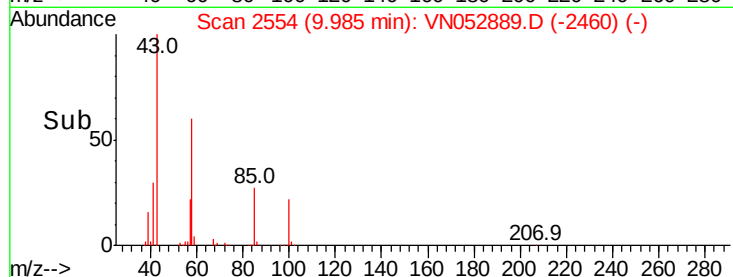
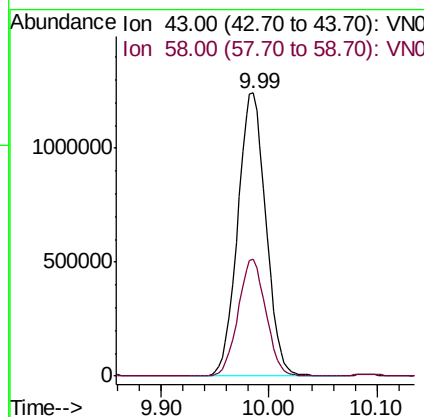
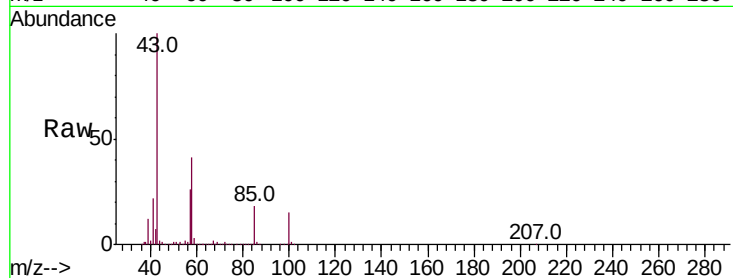
#51
4-Methyl-2-Pentanone
Concen: 235.793 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 2260017
Ion Ratio Lower Upper
43 100
58 40.9 32.2 48.4

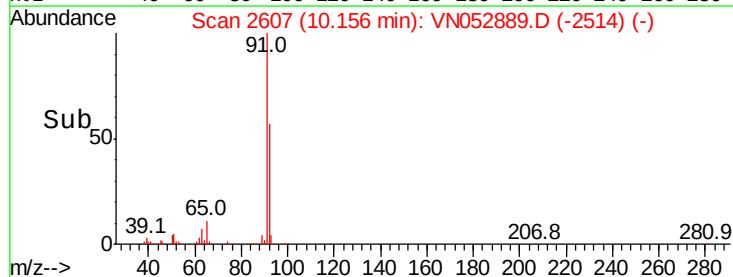
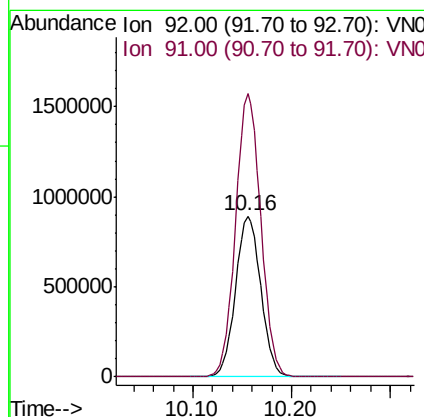
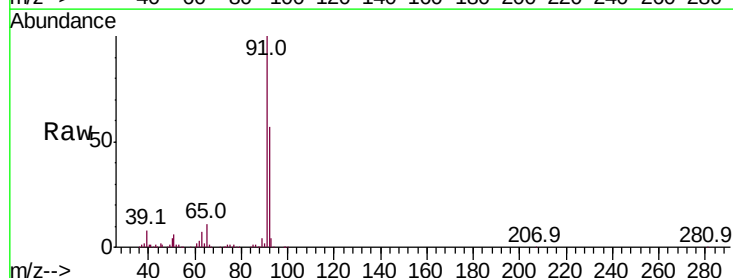
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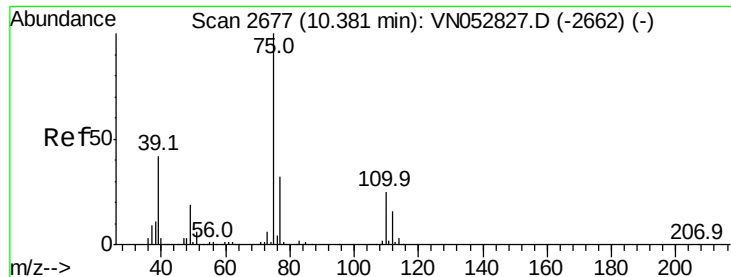
MMDadoda
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#52
Toluene
Concen: 51.412 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion: 92 Resp: 1586051
Ion Ratio Lower Upper
92 100
91 176.2 139.8 209.6





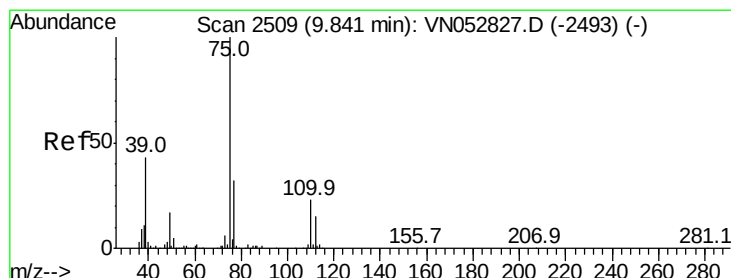
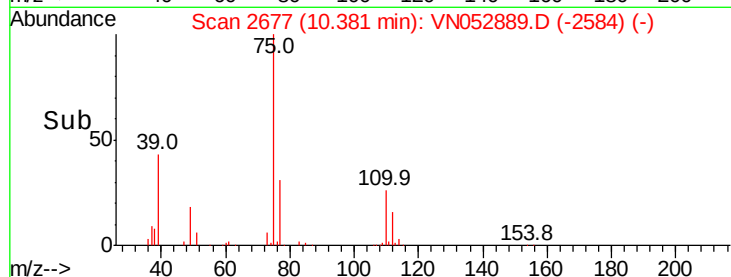
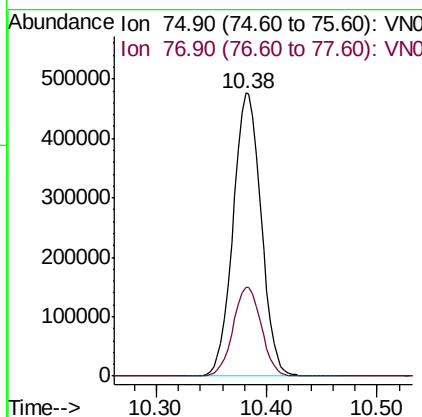
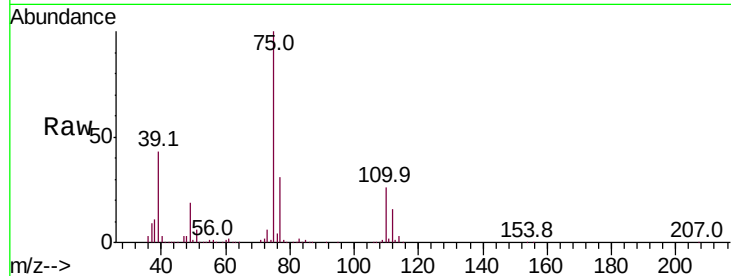
#53
t-1,3-Dichloropropene
Concen: 51.951 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.6	38.4

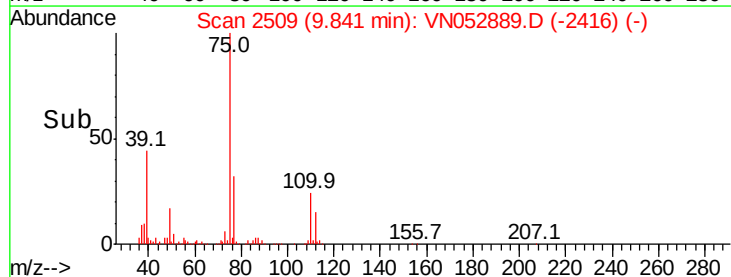
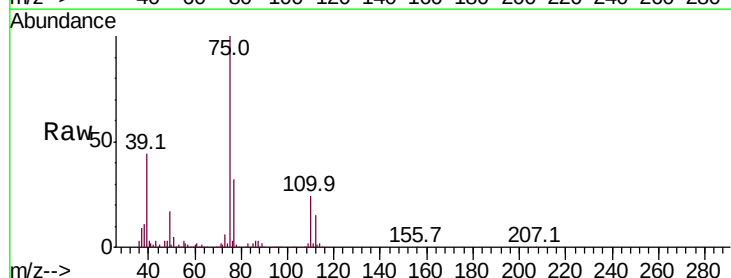
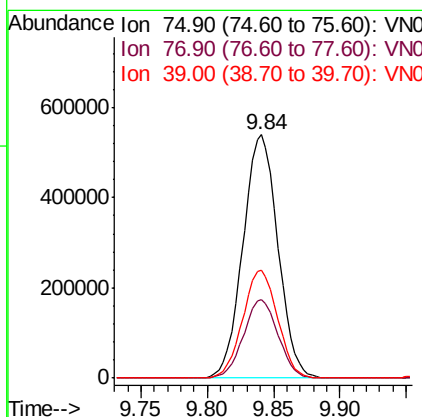
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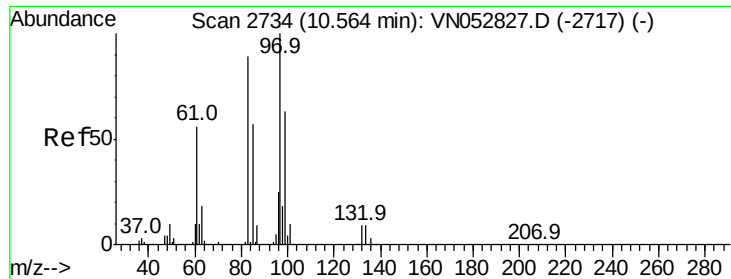
MMDadoda
12/17/2018 3:05:50 PM



#54
cis-1,3-Dichloropropene
Concen: 51.382 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.8	38.8
39	44.2	34.8	52.2





#55

1,1,2-Trichloroethane

Concen: 49.132 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 541070

Ion Ratio Lower Upper

97 100

83 87.1 70.9 106.3

85 57.1 45.4 68.2

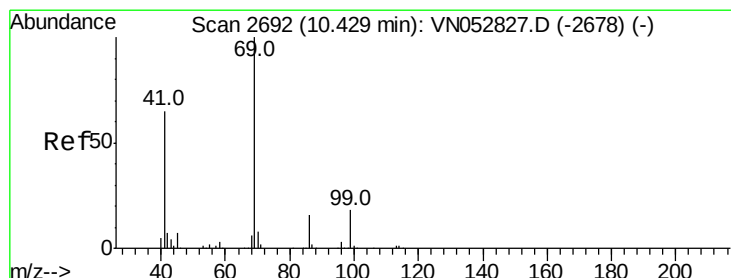
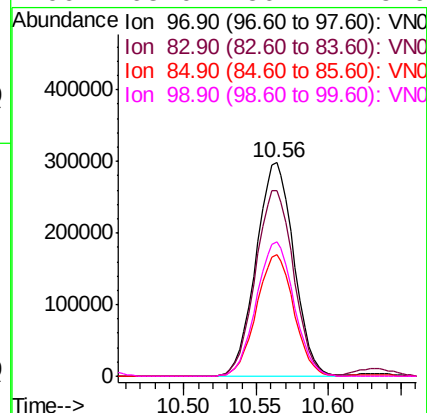
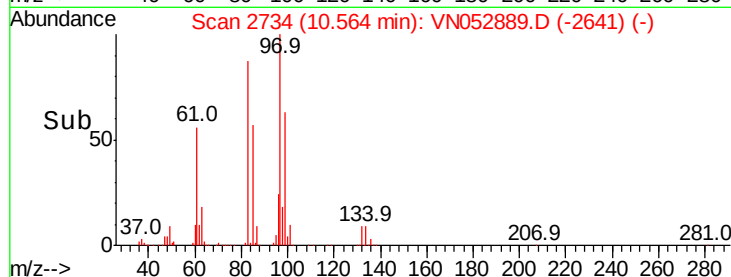
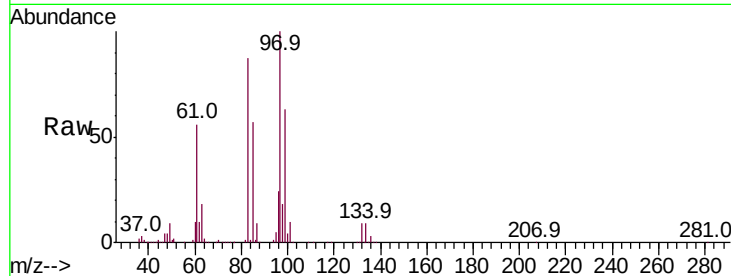
99 63.0 50.4 75.6

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#56

Ethyl methacrylate

Concen: 50.460 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

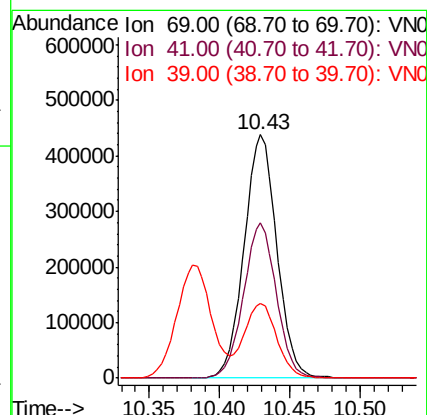
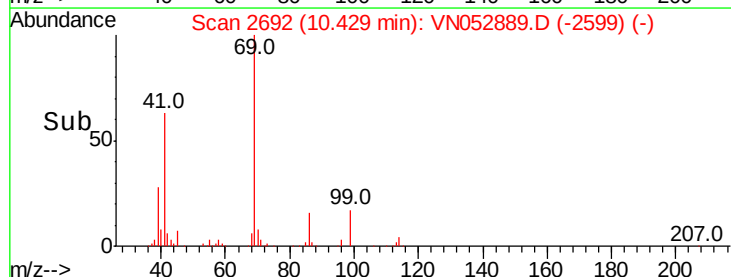
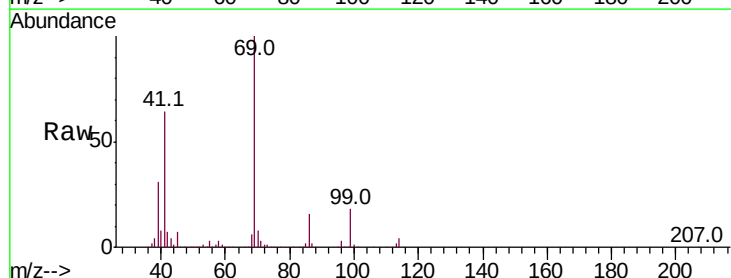
Tgt Ion: 69 Resp: 713147

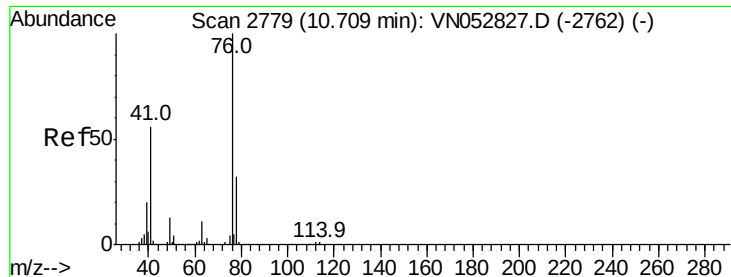
Ion Ratio Lower Upper

69 100

41 63.3 51.7 77.5

39 30.8 24.6 37.0





#57

1,3-Dichloropropane

Concen: 49.609 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN052889.D

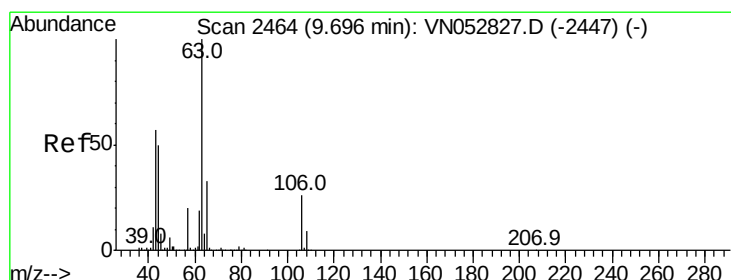
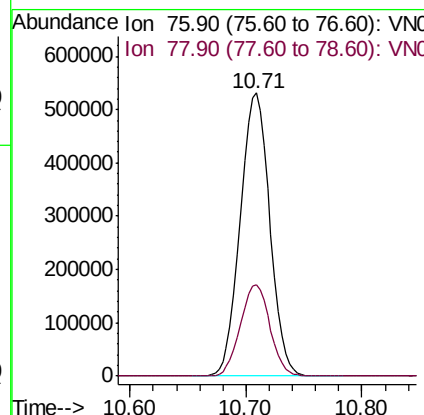
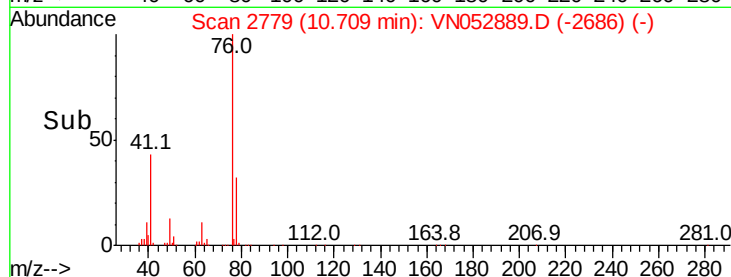
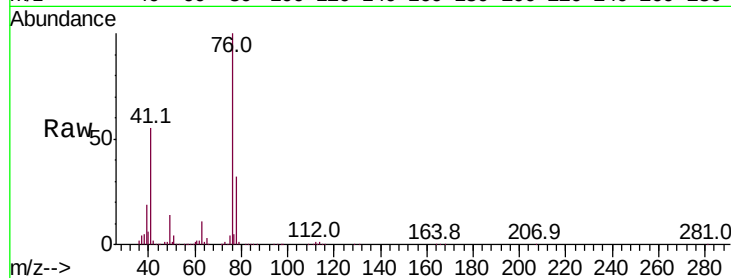
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.8	38.8

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 246.652 ug/l

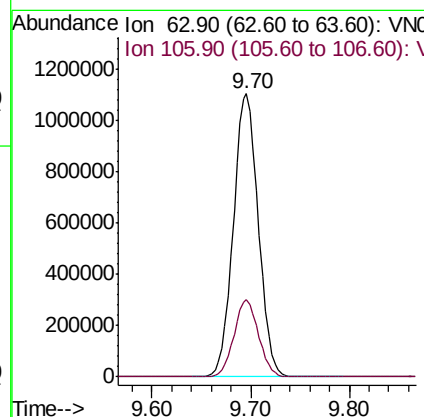
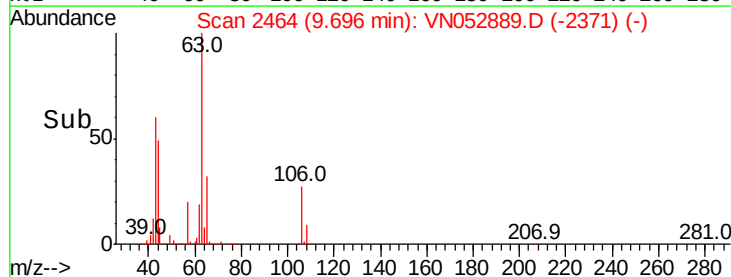
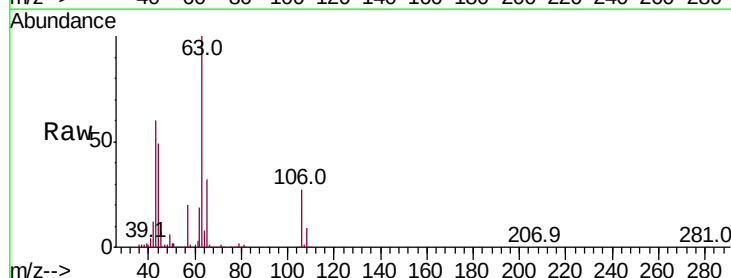
RT: 9.70 min Scan# 2464

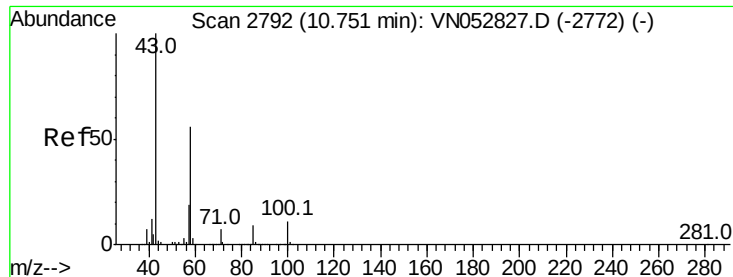
Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.0	31.6





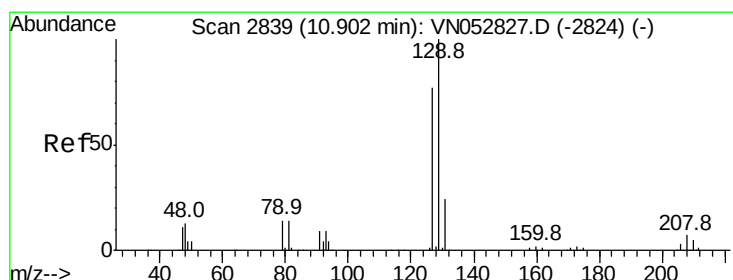
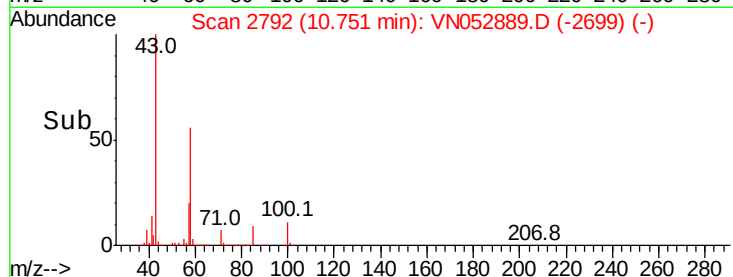
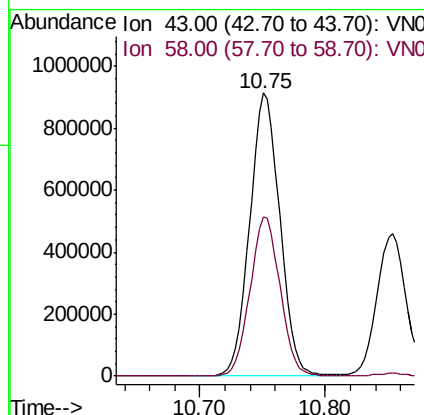
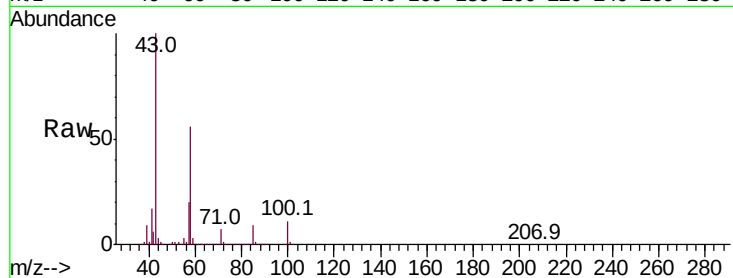
#59
2-Hexanone
Concen: 232.189 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 1525155
Ion Ratio Lower Upper
43 100
58 56.3 28.1 84.3

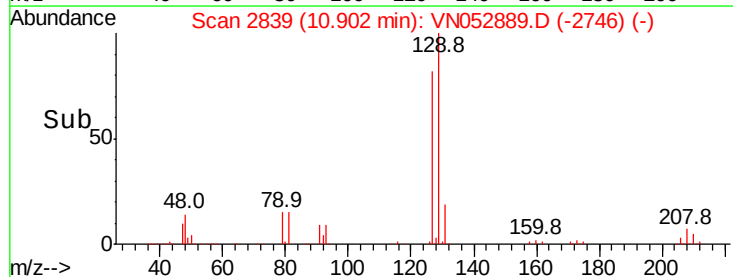
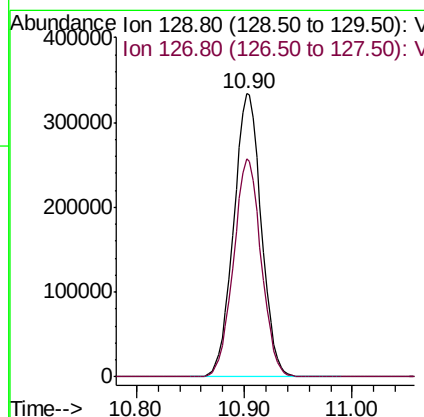
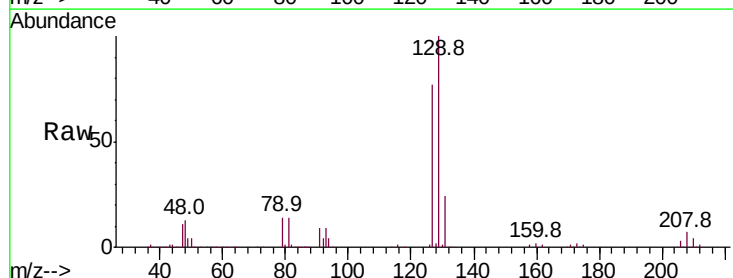
Manual Integrations
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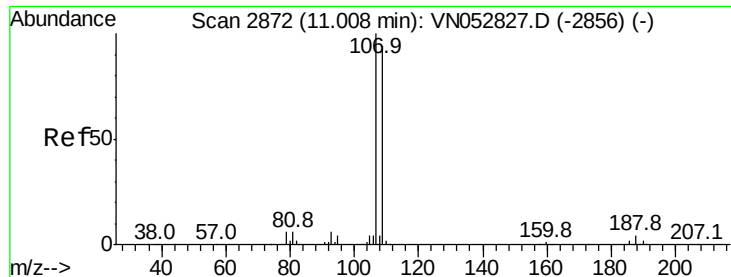
MMDadoda
12/17/2018 3:05:50 PM



#60
Dibromochloromethane
Concen: 50.148 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion: 129 Resp: 596858
Ion Ratio Lower Upper
129 100
127 77.0 38.6 116.0





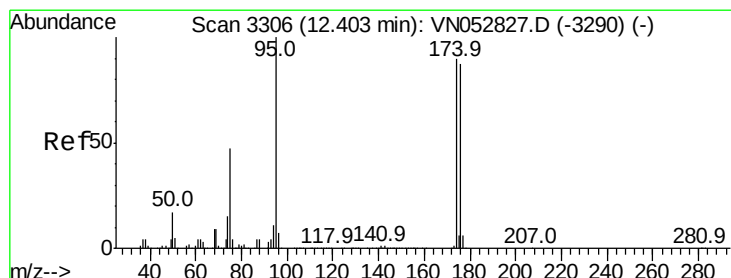
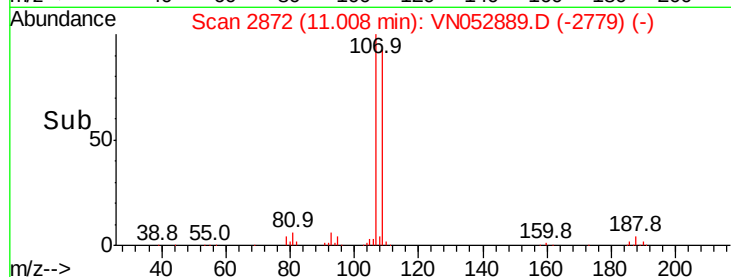
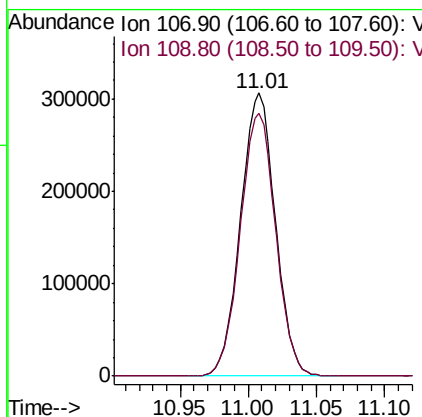
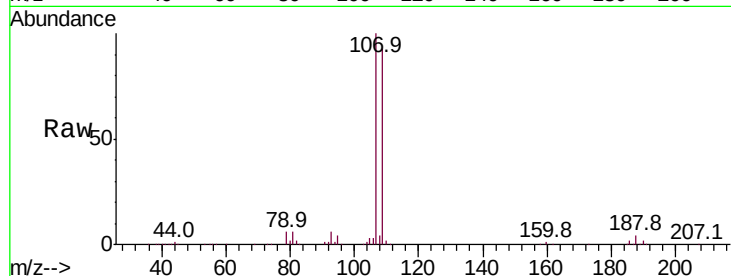
#61
 1,2-Dibromoethane
 Concen: 49.829 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.4	113.0

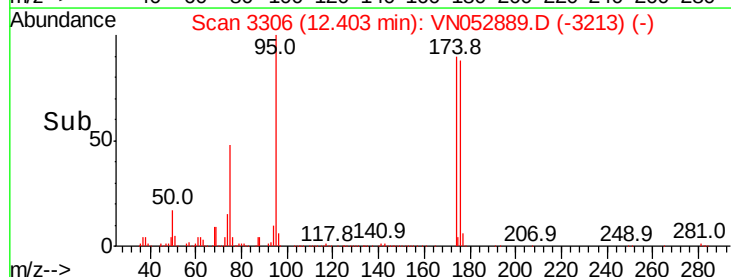
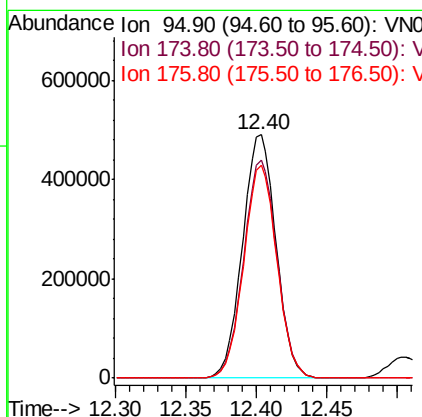
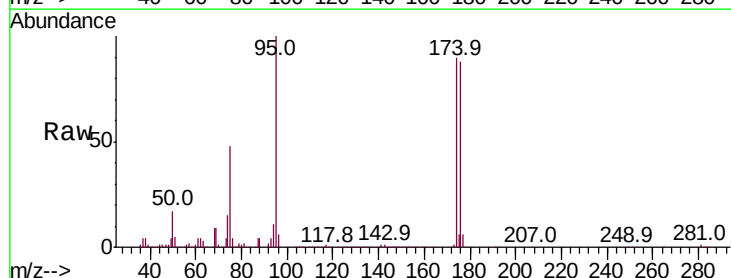
Manual Integrations
 APPROVED

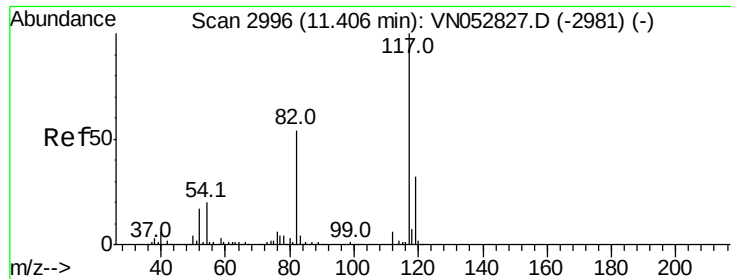
MMDadoda
 12/17/2018 3:05:50 PM



#62
 4-Bromofluorobenzene
 Concen: 49.829 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.4	0.0	178.8
176	86.7	0.0	173.8





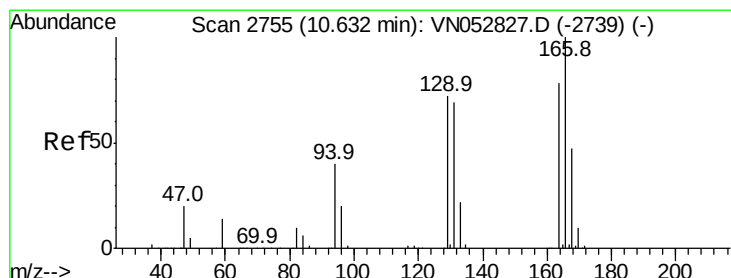
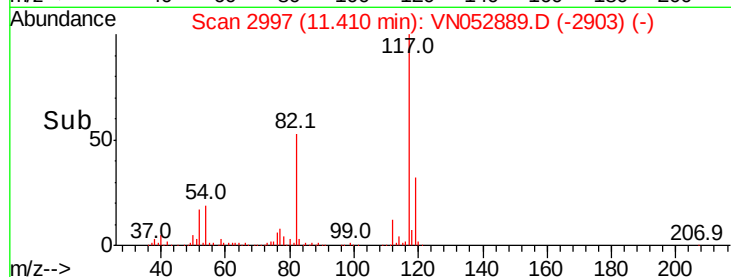
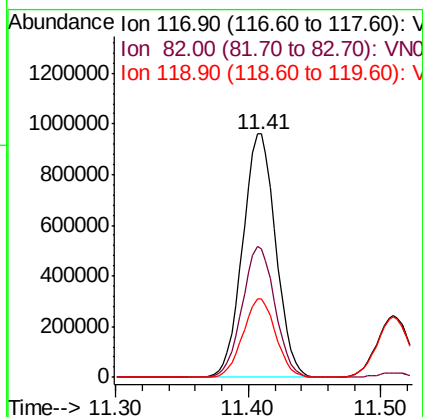
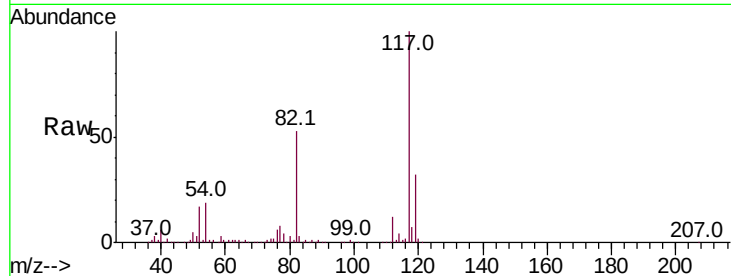
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 1660254
Ion Ratio Lower Upper
117 100
82 52.9 42.8 64.2
119 32.3 25.5 38.3

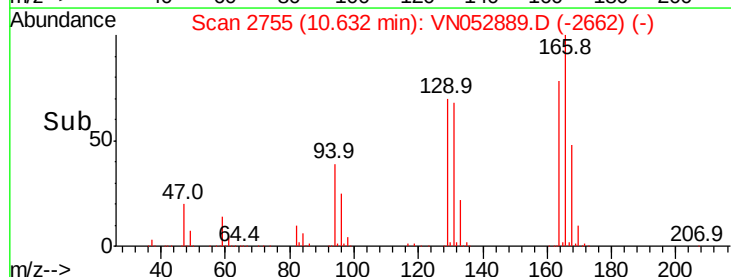
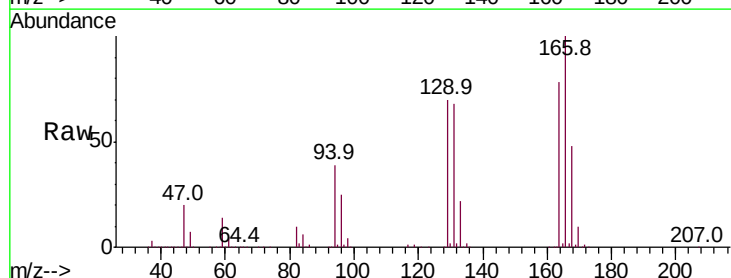
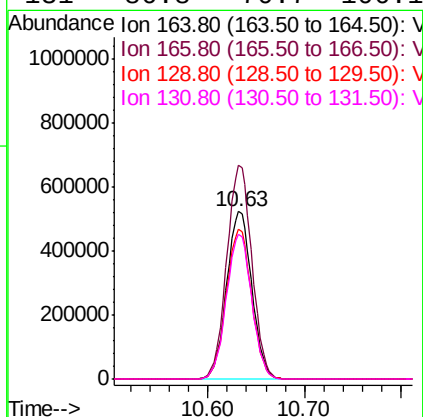
Manual Integrations
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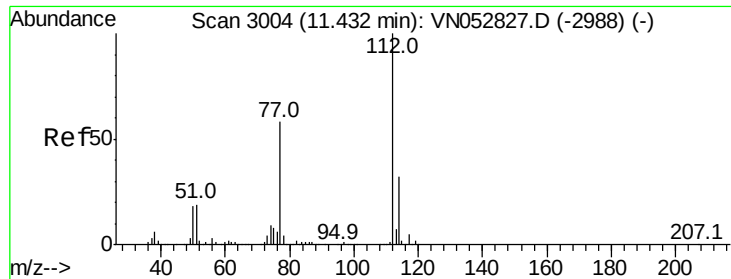
MMDadoda
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#64
Tetrachloroethene
Concen: 65.964 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion:164 Resp: 941271
Ion Ratio Lower Upper
164 100
166 127.8 102.9 154.3
129 89.4 73.7 110.5
131 86.8 70.7 106.1





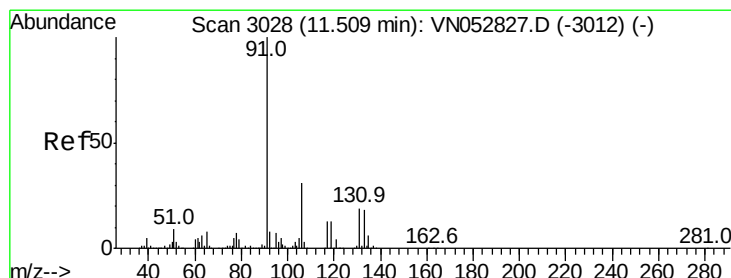
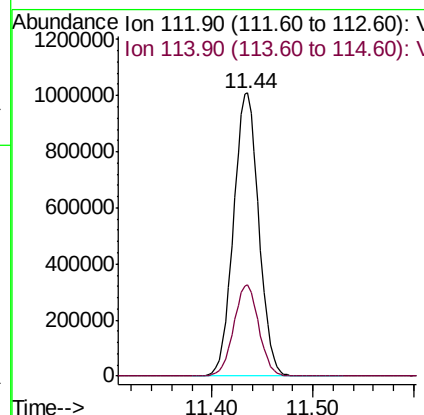
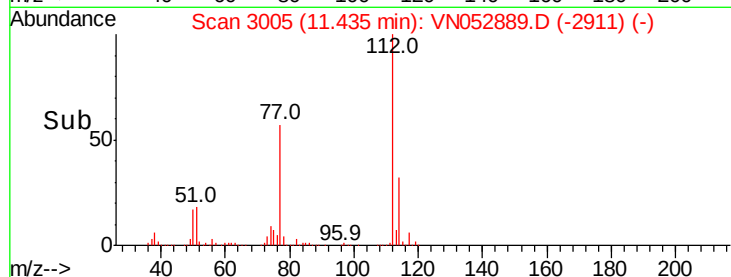
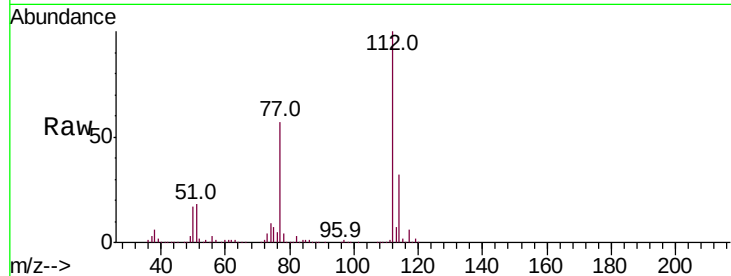
#65
Chlorobenzene
Concen: 51.030 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 1757704
Ion Ratio Lower Upper
112 100
114 32.1 25.5 38.3

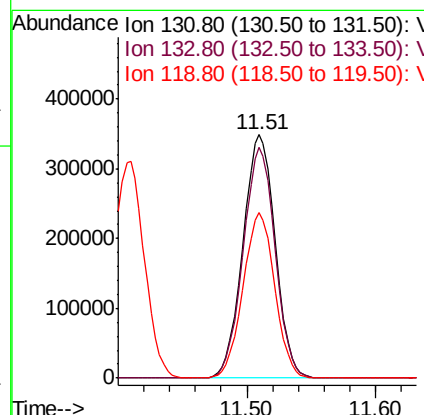
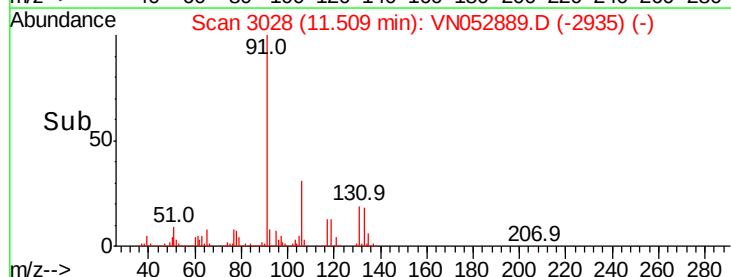
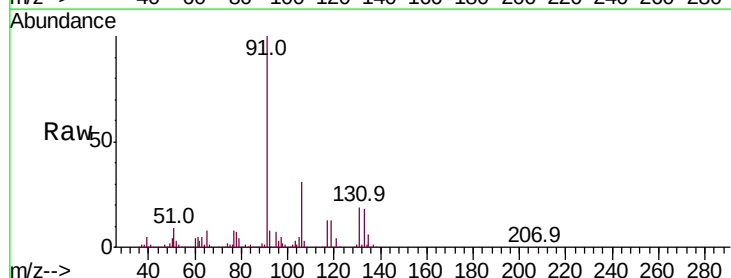
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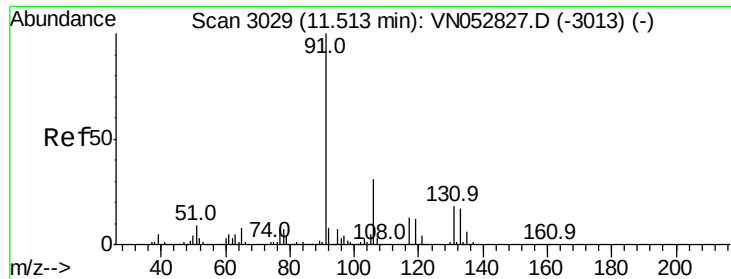
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 50.612 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion:131 Resp: 606298
Ion Ratio Lower Upper
131 100
133 94.0 47.6 142.9
119 66.8 33.3 99.8





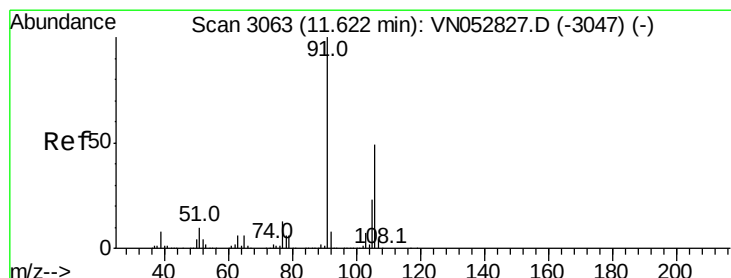
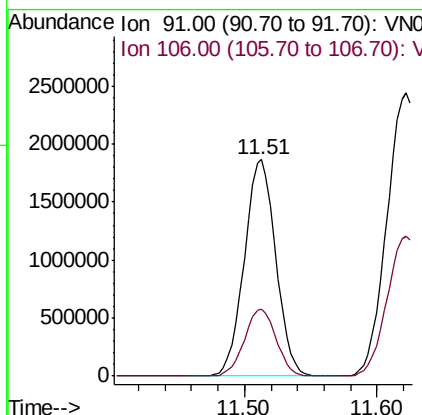
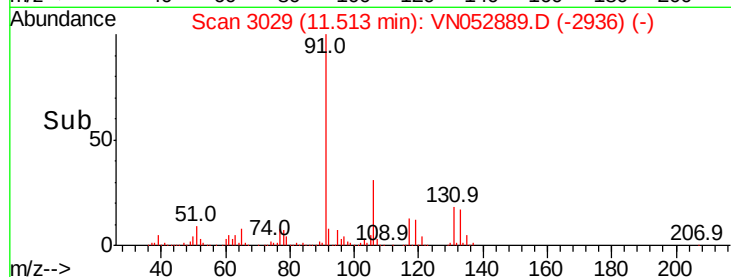
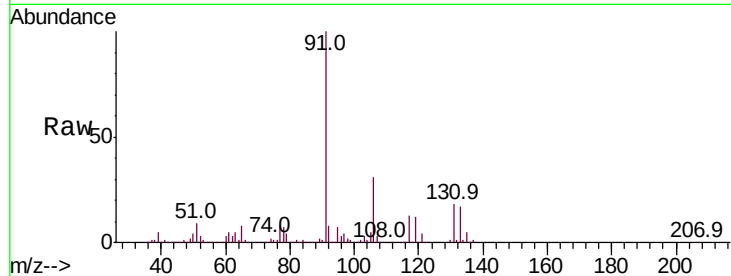
#67
Ethyl Benzene
Concen: 51.783 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 3063059
Ion Ratio Lower Upper
91 100
106 31.0 24.9 37.3

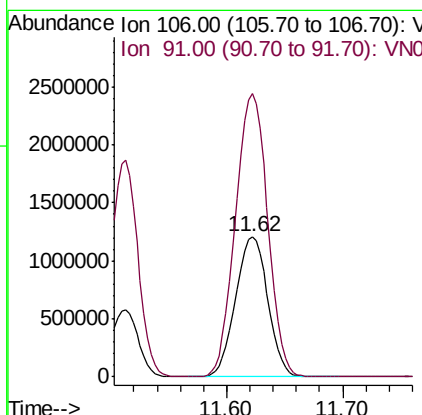
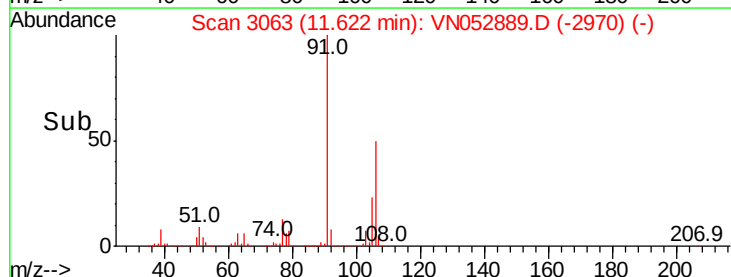
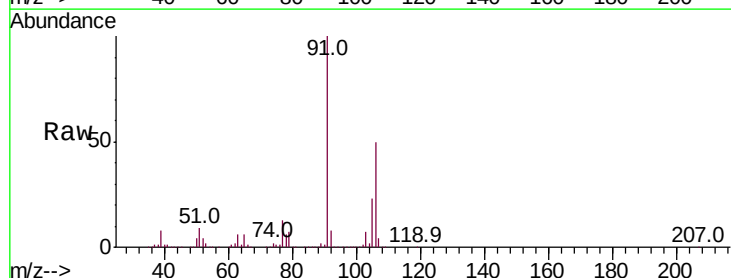
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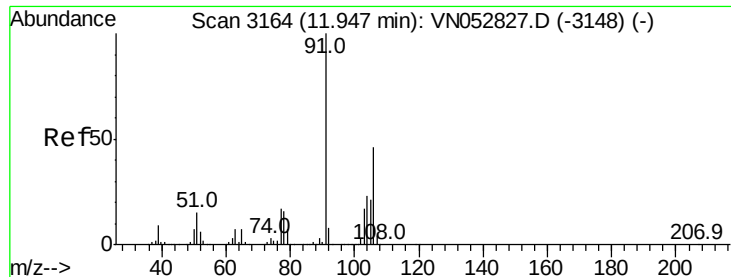
MMDadoda
12/17/2018 3:05:50 PM



#68
m/p-Xylenes
Concen: 104.626 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion: 106 Resp: 2323815
Ion Ratio Lower Upper
106 100
91 202.5 162.2 243.4





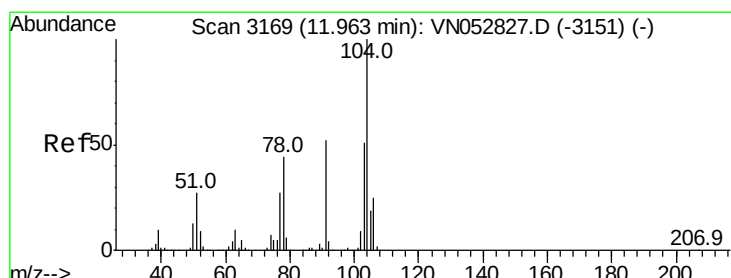
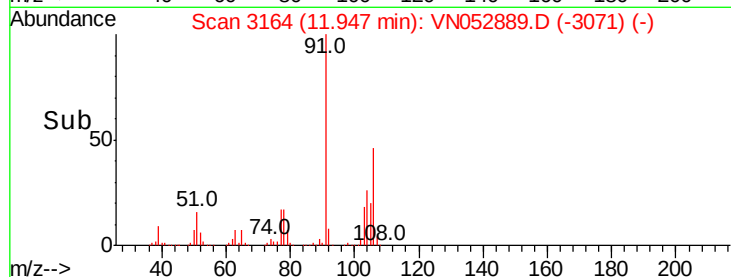
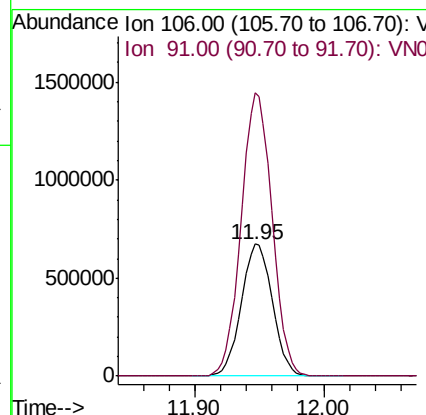
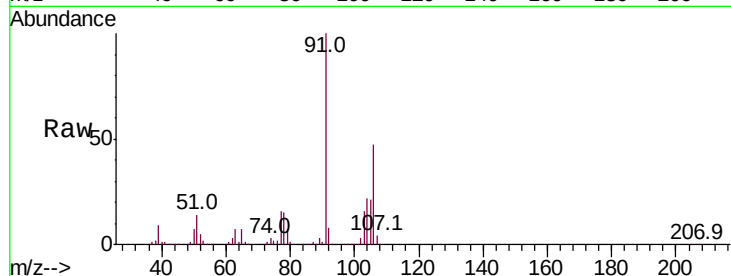
#69
o-Xylene
Concen: 52.145 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 1130942
Ion Ratio Lower Upper
106 100
91 212.9 106.6 319.8

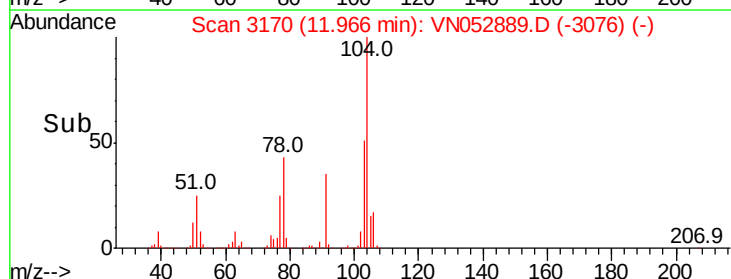
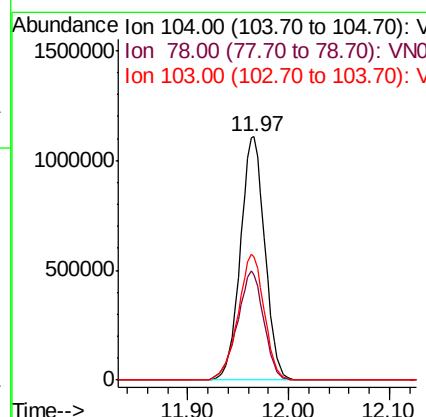
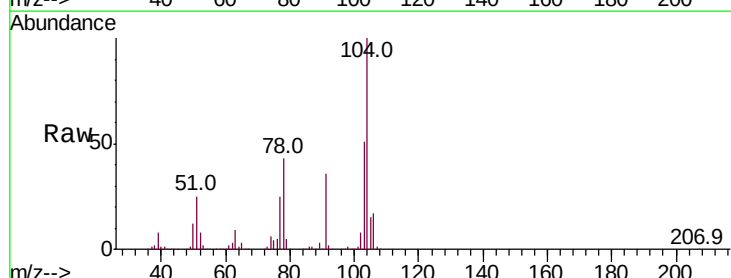
Manual Integrations
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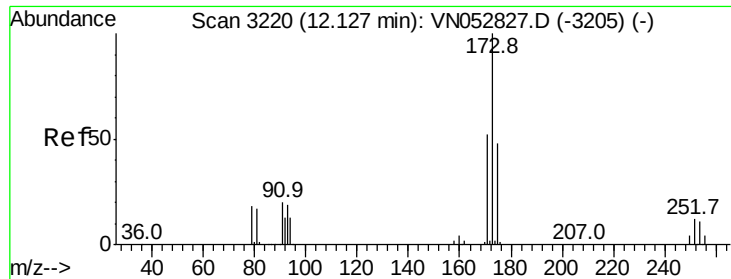
MMDadoda
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#70
Styrene
Concen: 53.124 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion:104 Resp: 1852170
Ion Ratio Lower Upper
104 100
78 48.5 38.9 58.3
103 55.5 44.3 66.5





#71

Bromoform

Concen: 48.364 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 393600

Ion Ratio Lower Upper

173 100

175 48.7 24.3 72.9

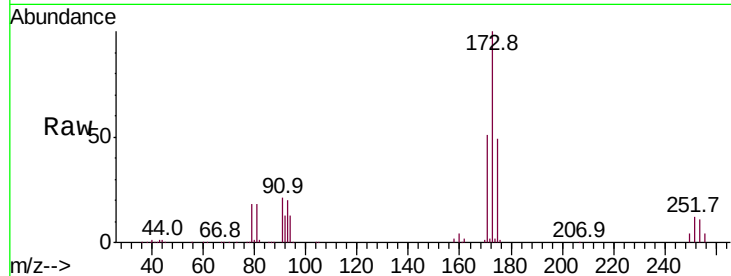
254 0.1 0.1 0.1#

Manual Integrations

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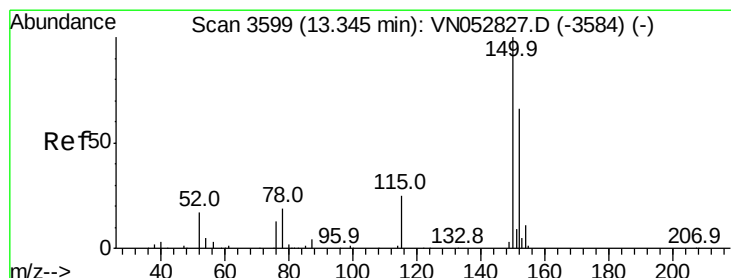
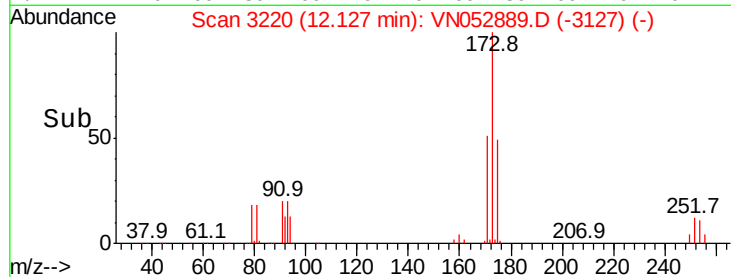
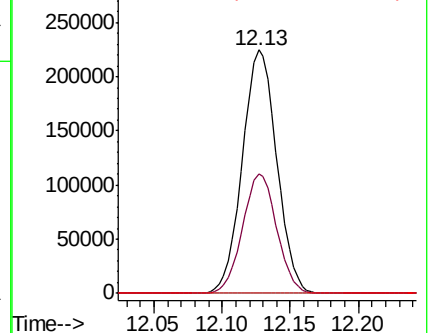
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Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

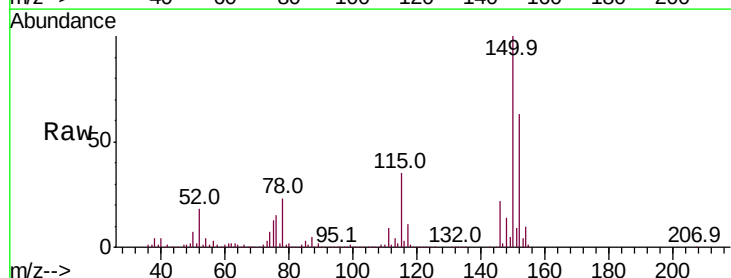
Tgt Ion:152 Resp: 770040

Ion Ratio Lower Upper

152 100

115 56.3 28.3 85.0

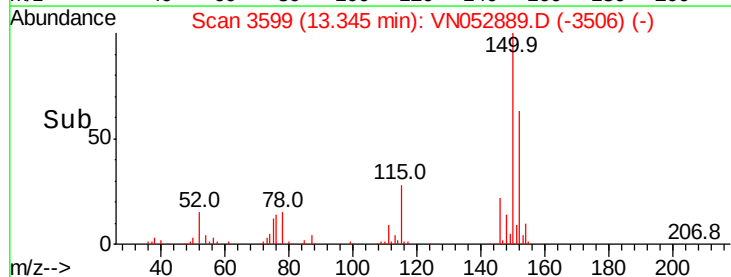
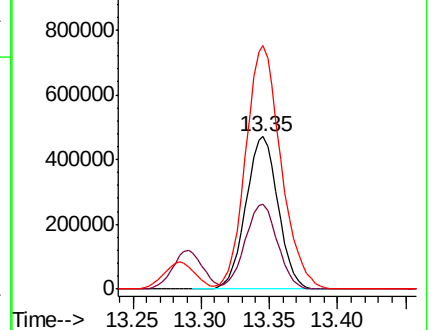
150 174.9 0.0 347.8

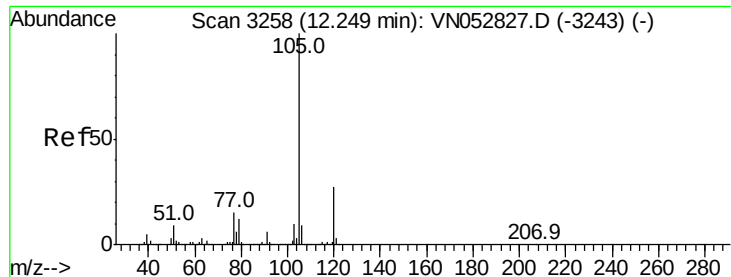


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 52.723 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 3031278

Ion Ratio Lower Upper

105 100

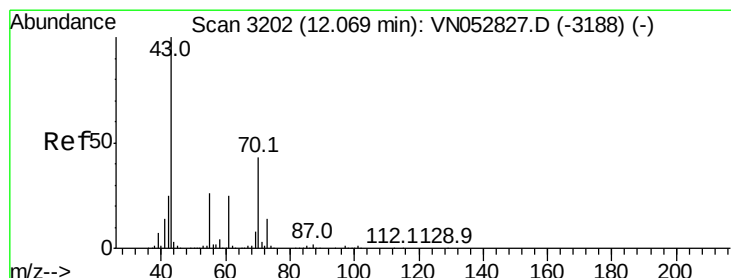
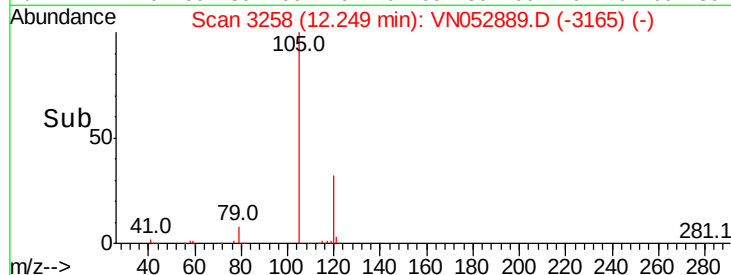
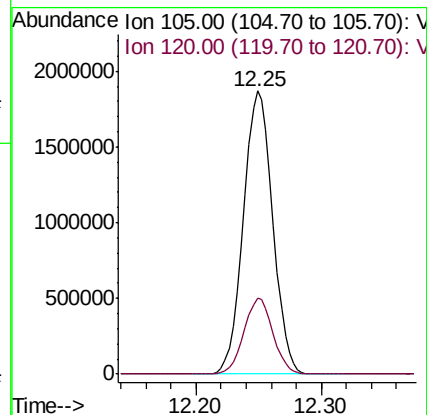
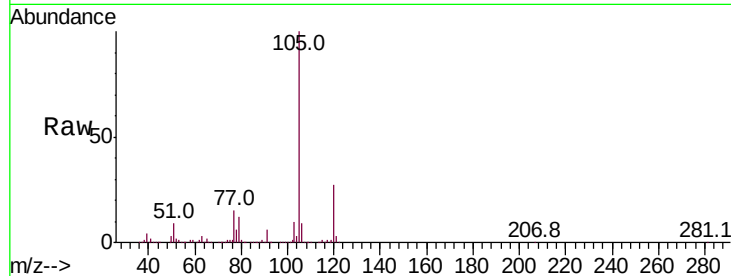
120 26.6 13.3 39.9

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#74

N-ethyl acetate

Concen: 51.050 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Tgt Ion: 43 Resp: 805794

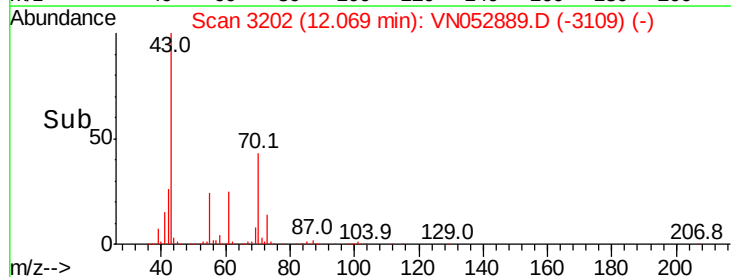
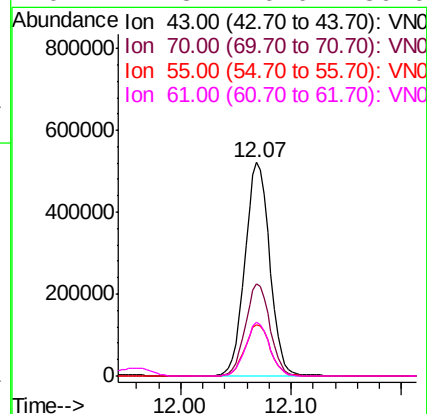
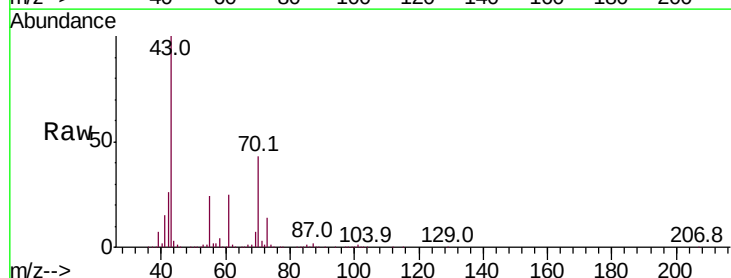
Ion Ratio Lower Upper

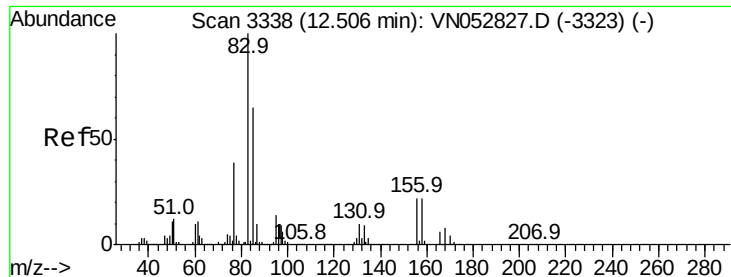
43 100

70 43.1 34.2 51.4

55 24.8 20.3 30.5

61 24.8 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 37.547 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 483798
Ion Ratio Lower Upper

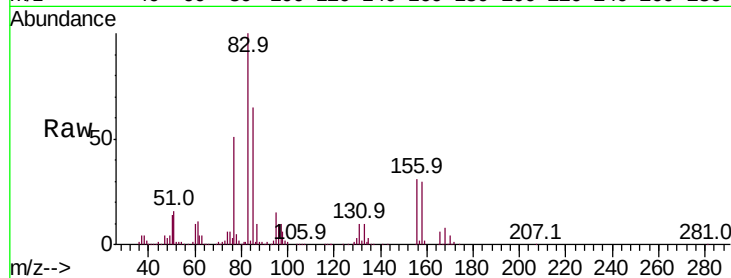
83 100

131 10.7 5.2 15.6

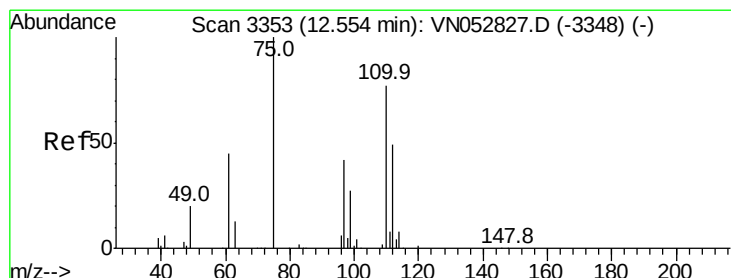
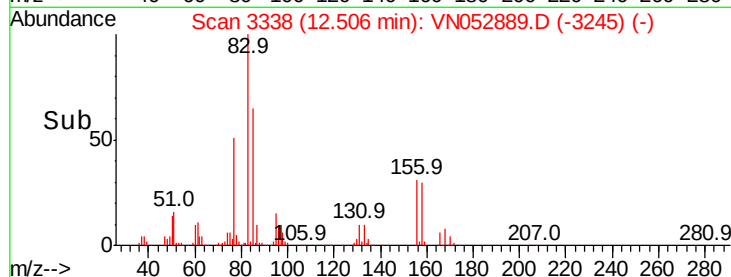
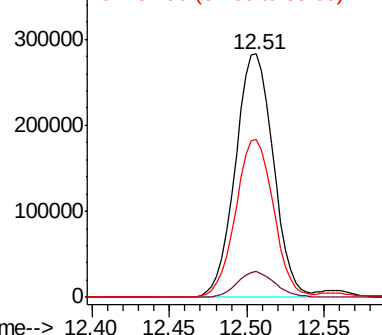
85 64.8 32.4 97.0

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 47.448 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

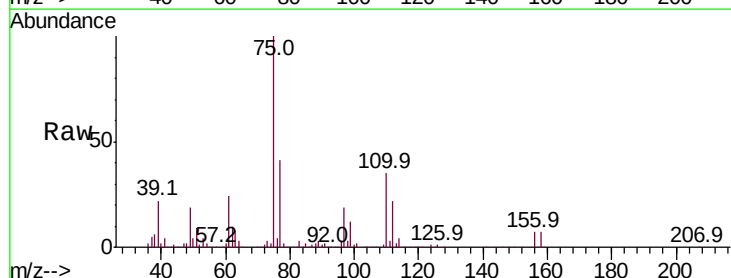
Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

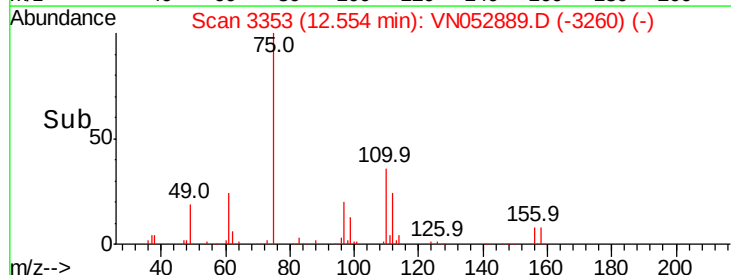
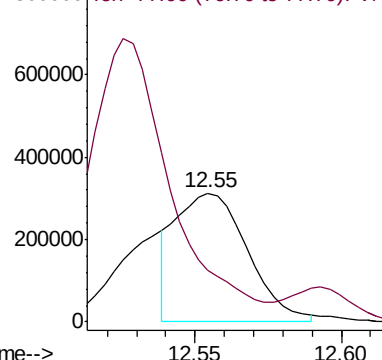
Tgt Ion: 75 Resp: 539063
Ion Ratio Lower Upper

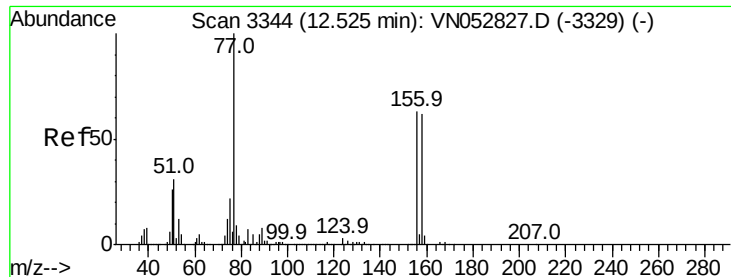
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 51.893 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

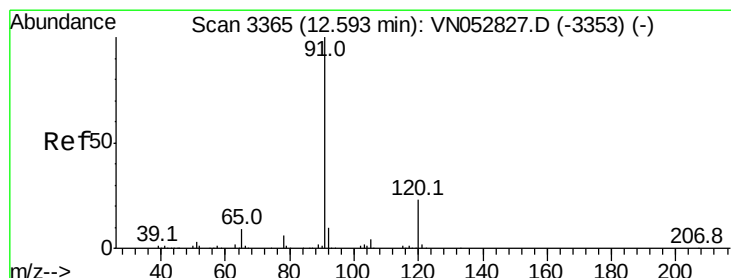
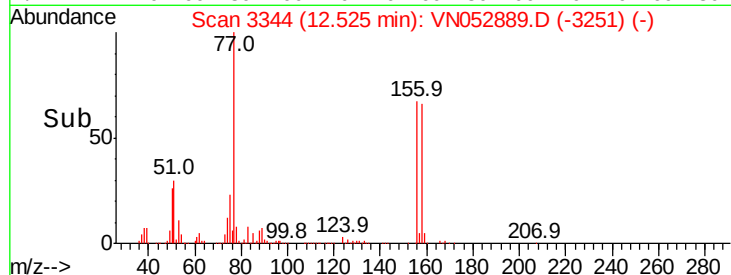
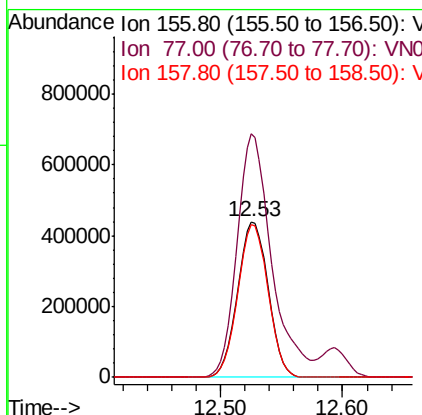
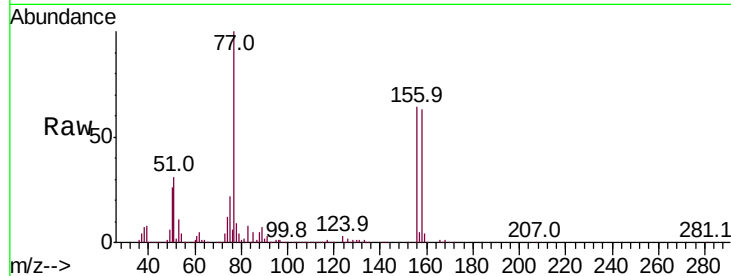
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	758848
Ion Ratio	Lower	Upper	
156	100		
77	176.8	91.3	273.8
158	97.4	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 53.046 ug/l

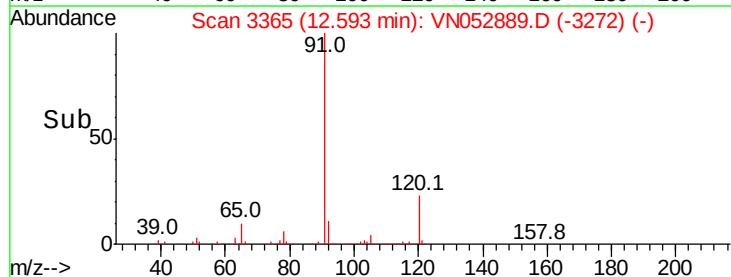
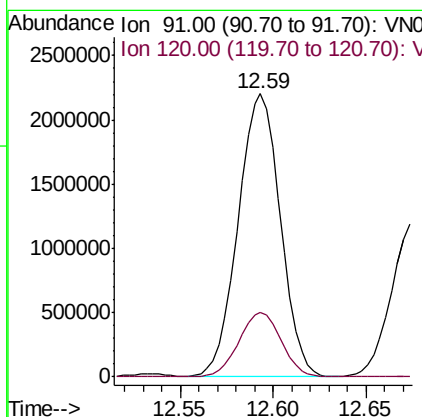
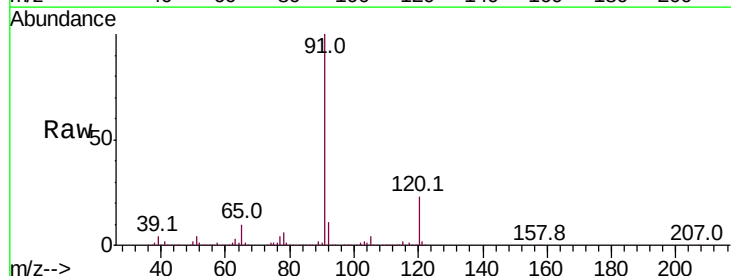
RT: 12.59 min Scan# 3365

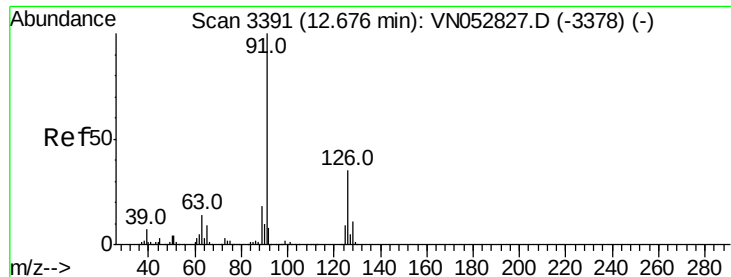
Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Tgt Ion:	91	Resp:	3478279
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.5	34.5





#79

2-Chlorotoluene

Concen: 51.335 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 1990005

Ion Ratio Lower Upper

91 100

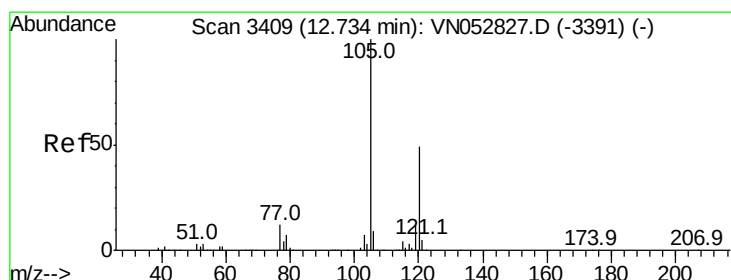
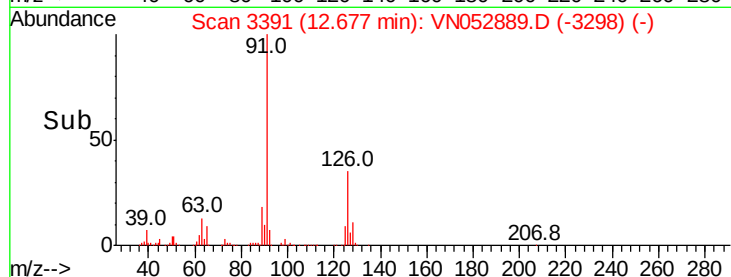
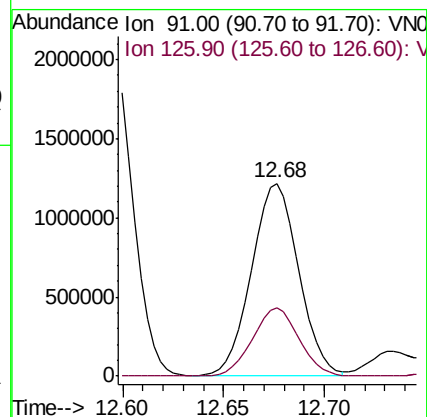
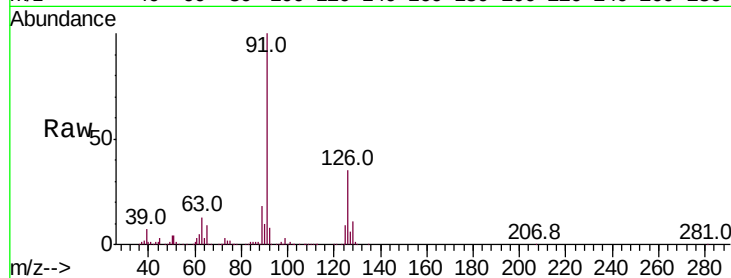
126 35.0 17.4 52.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 52.251 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052889.D

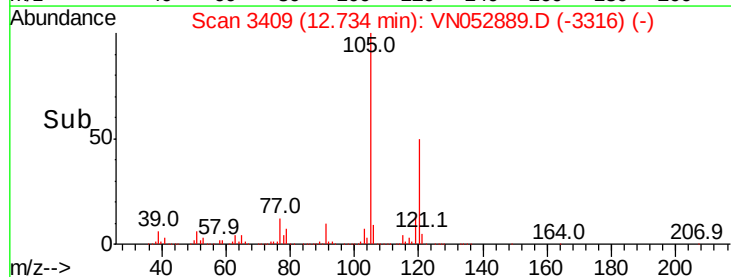
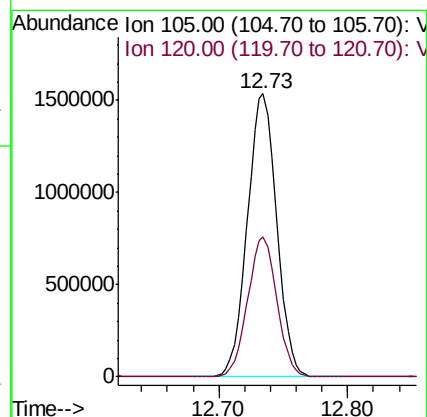
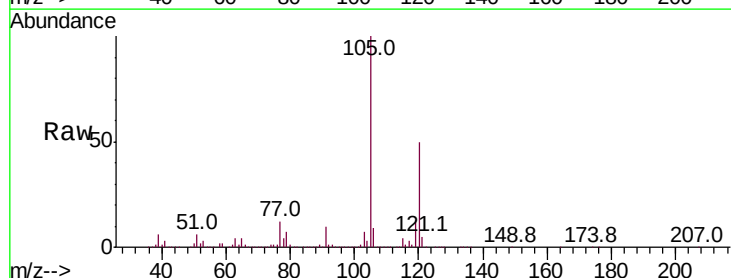
Acq: 14 Dec 2018 15:21

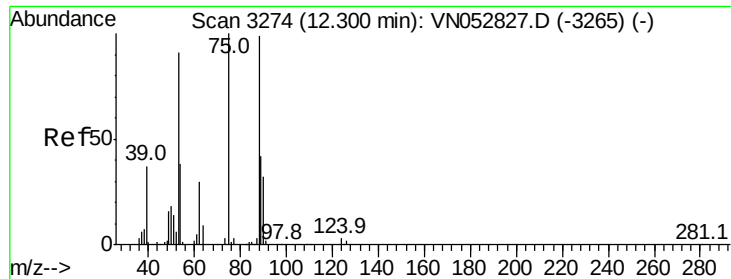
Tgt Ion: 105 Resp: 2425081

Ion Ratio Lower Upper

105 100

120 49.3 24.4 73.2





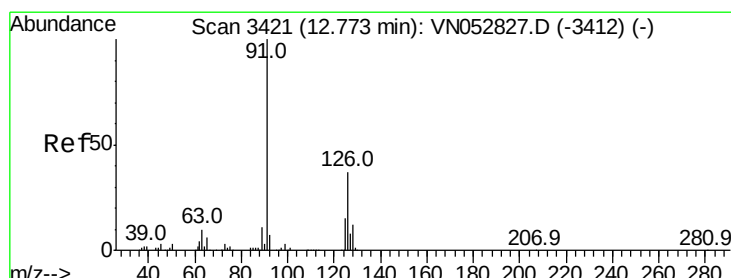
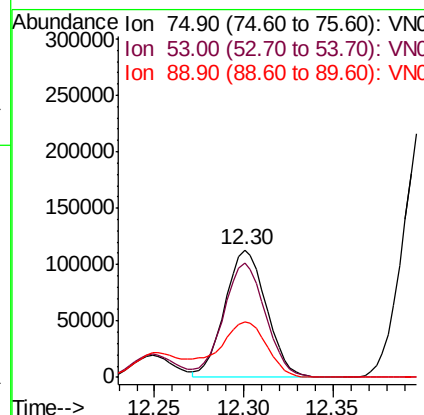
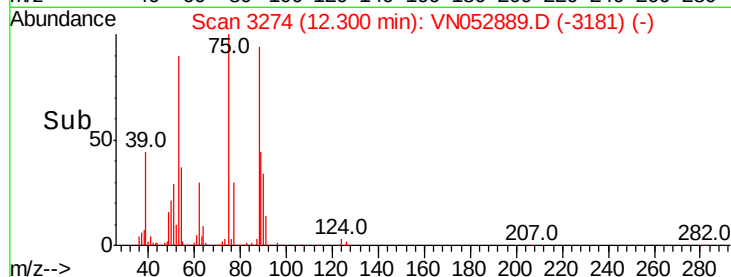
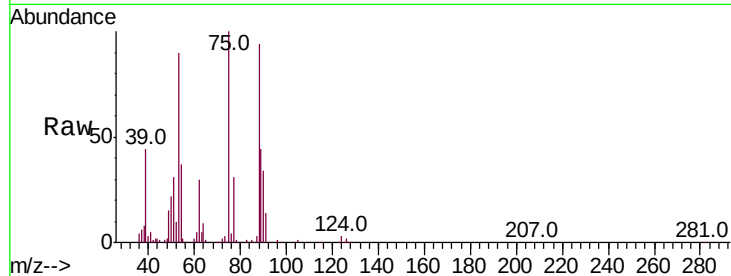
#81
trans-1,4-Dichloro-2-butene
Concen: 51.807 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.4	74.7	112.1
89	46.5	36.1	54.1

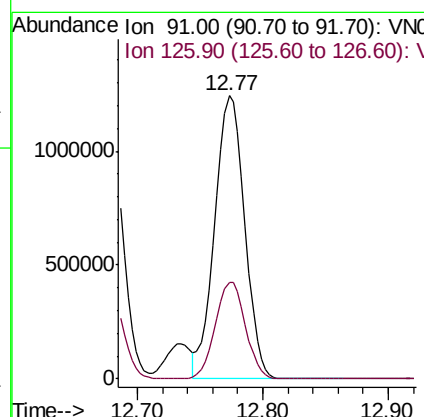
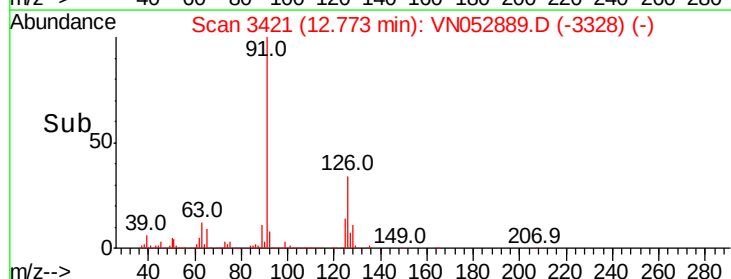
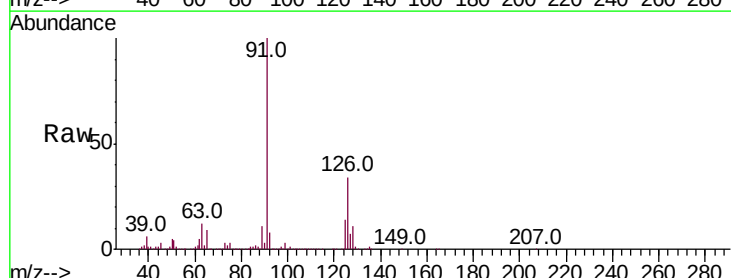
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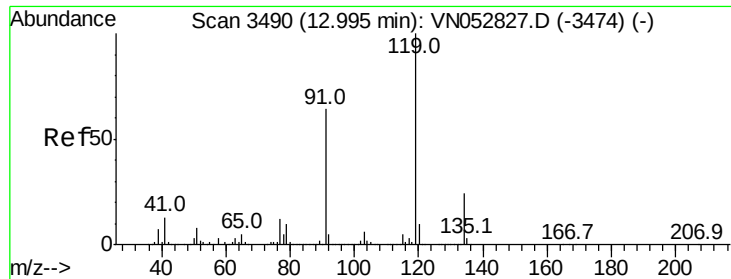
MMDadoda
12/17/2018 3:05:50 PM



#82
4-Chlorotoluene
Concen: 52.006 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.3	51.7





#83

tert-Butylbenzene

Concen: 51.991 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN052889.D

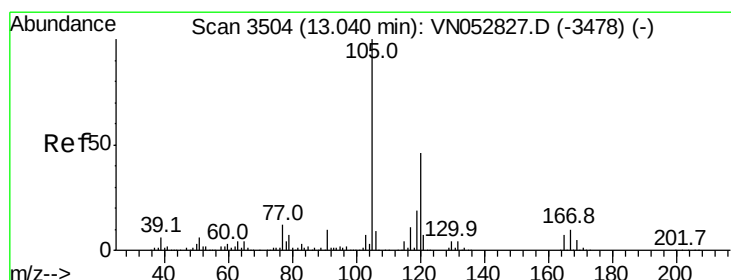
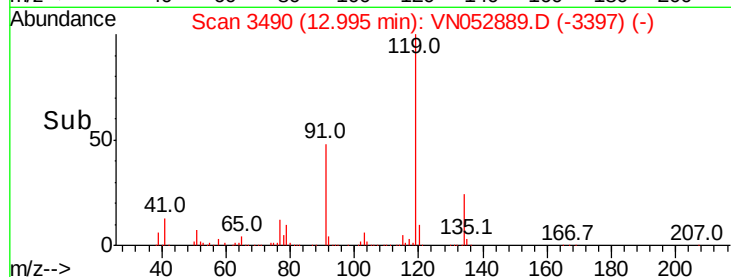
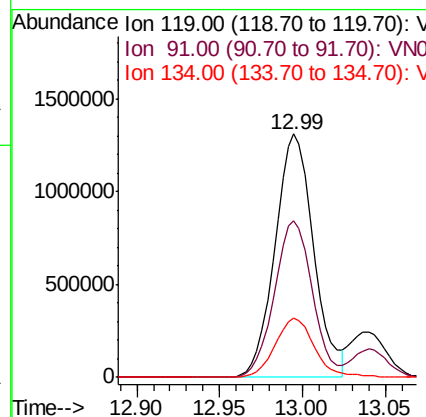
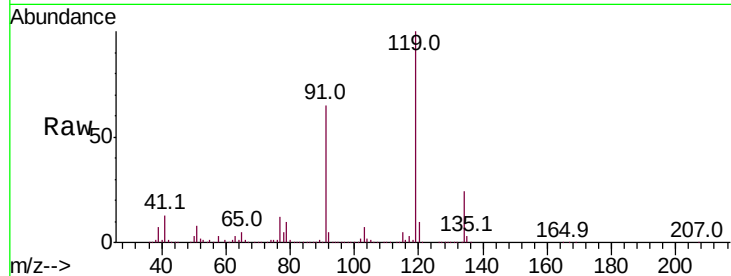
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.9	95.5
134	24.9	12.8	38.4

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#84

1,2,4-Trimethylbenzene

Concen: 52.169 ug/l

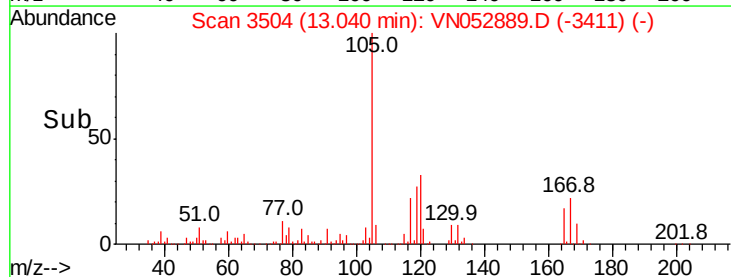
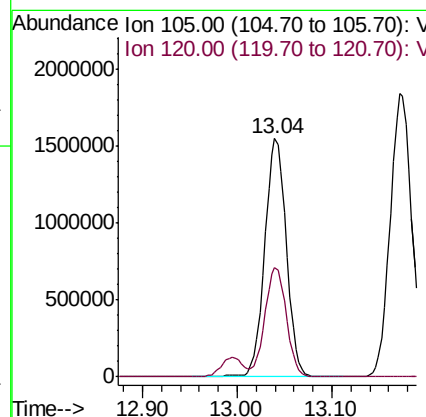
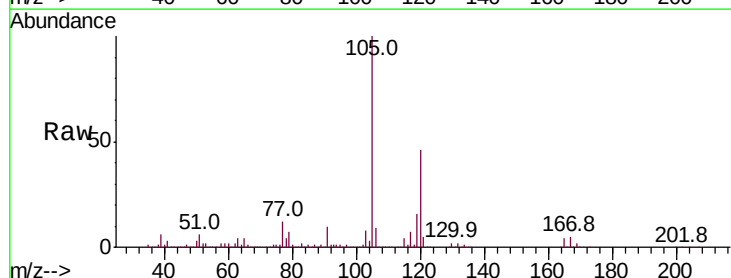
RT: 13.04 min Scan# 3504

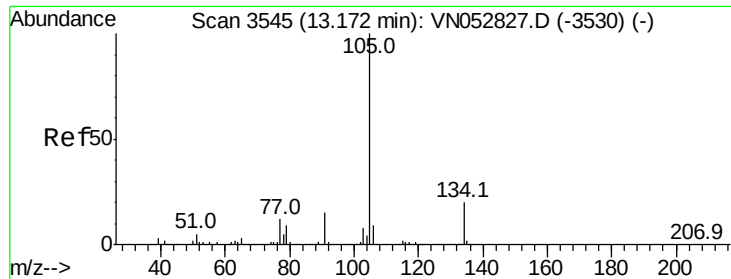
Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.9	68.8





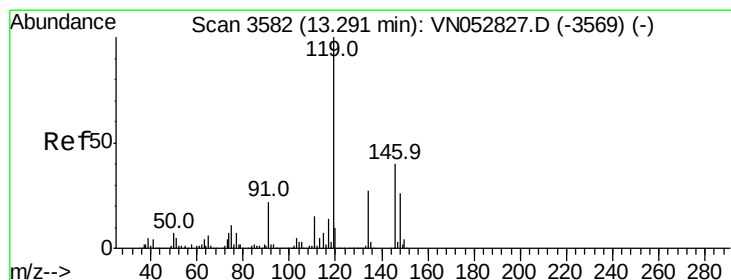
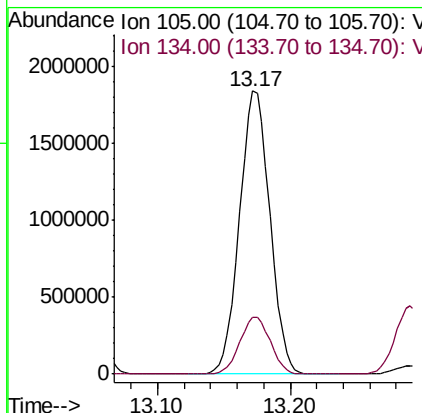
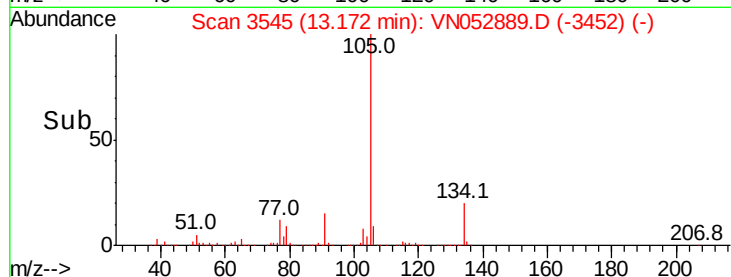
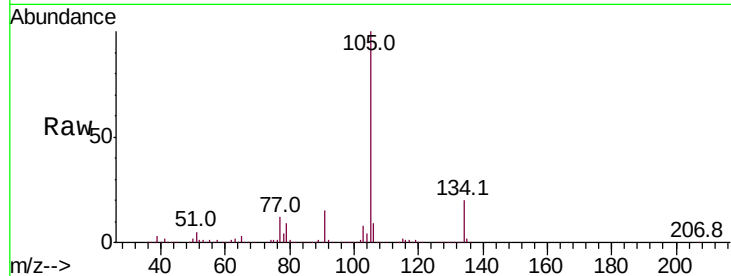
#85
 sec-Butylbenzene
 Concen: 52.758 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 2925251
 Ion Ratio Lower Upper
 105 100
 134 20.2 10.1 30.3

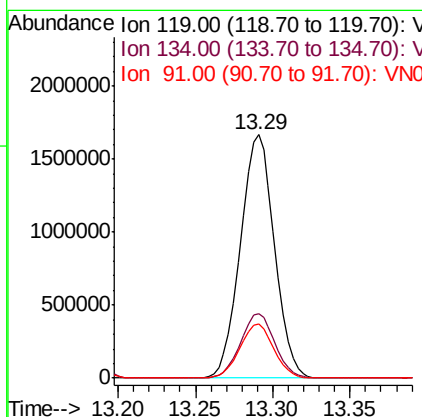
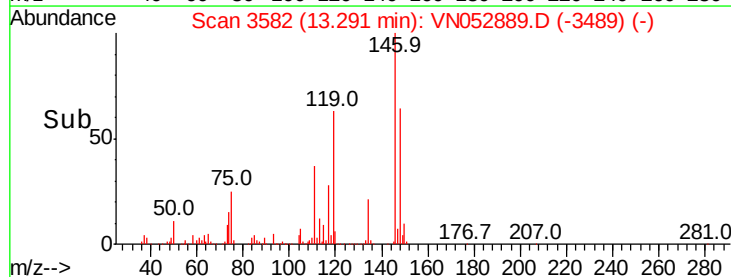
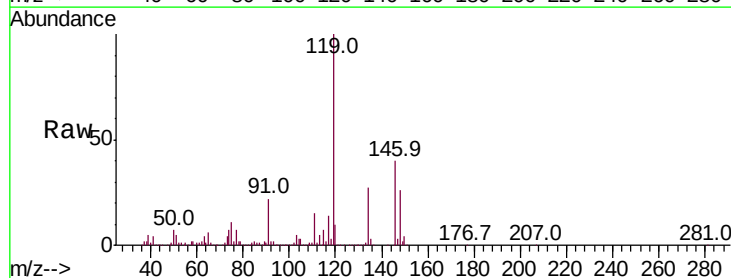
Manual Integrations
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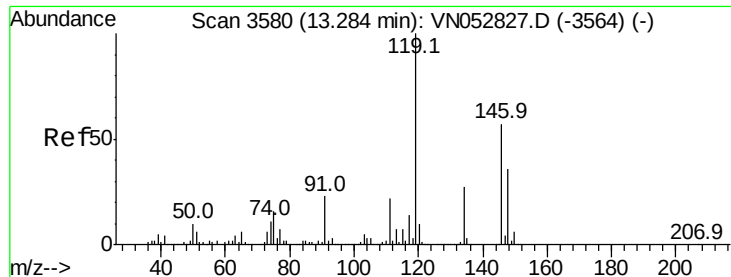
MMDadoda
 12/17/2018 3:05:50 PM



#86
 p-Isopropyltoluene
 Concen: 52.929 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Tgt Ion:119 Resp: 2542567
 Ion Ratio Lower Upper
 119 100
 134 26.7 13.4 40.2
 91 22.2 11.1 33.3





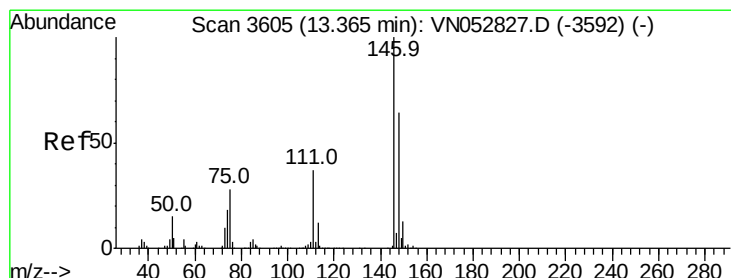
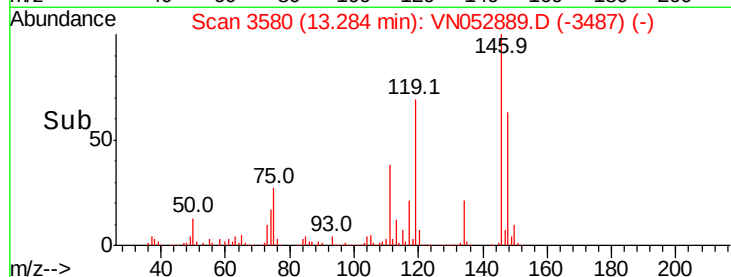
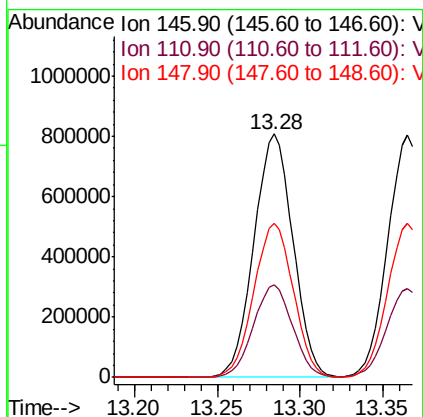
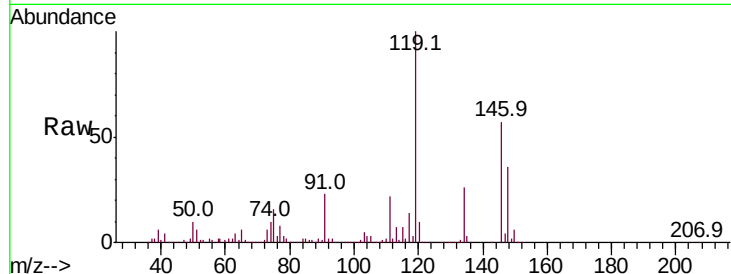
#87
 1,3-Dichlorobenzene
 Concen: 50.952 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 1324079
 Ion Ratio Lower Upper
 146 100
 111 38.1 19.1 57.1
 148 63.8 32.0 96.0

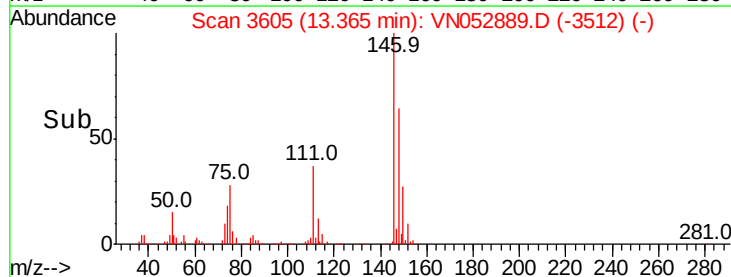
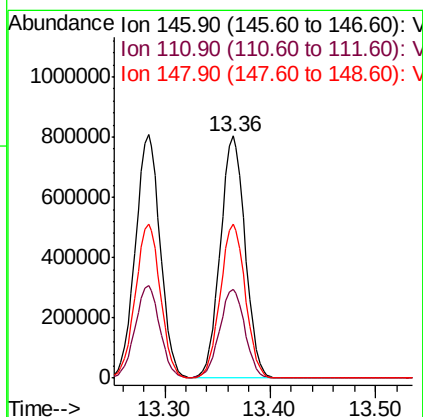
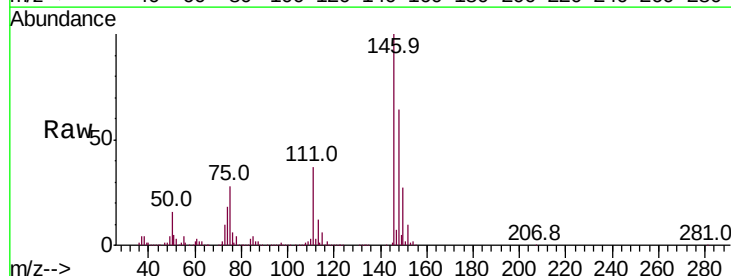
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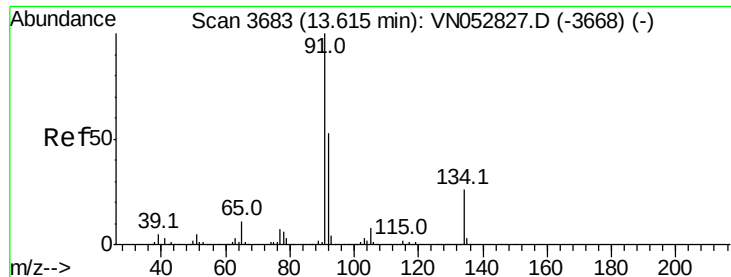
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 12/17/2018 3:05:50 PM



#88
 1,4-Dichlorobenzene
 Concen: 50.782 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Tgt Ion:146 Resp: 1306863
 Ion Ratio Lower Upper
 146 100
 111 37.3 18.6 55.8
 148 64.1 32.1 96.5





#89

n-Butylbenzene

Concen: 54.302 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052889.D

Acq: 14 Dec 2018 15:21

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 2195948

Ion Ratio Lower Upper

91 100

92 52.8 26.3 78.9

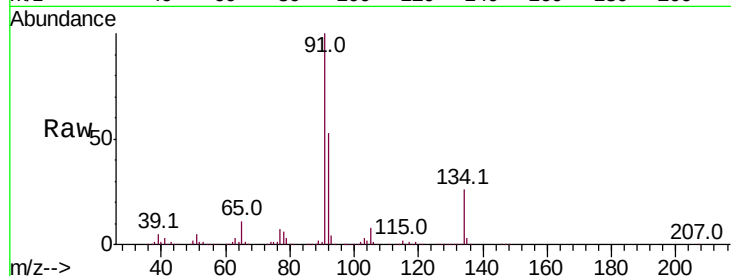
134 26.4 13.3 39.8

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN052827.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN052827.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN052827.D (-3668) (-)

2000000

1500000

1000000

500000

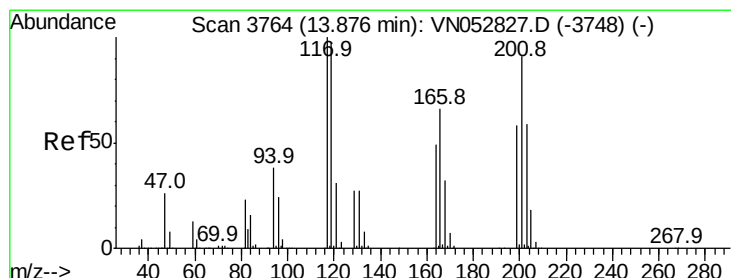
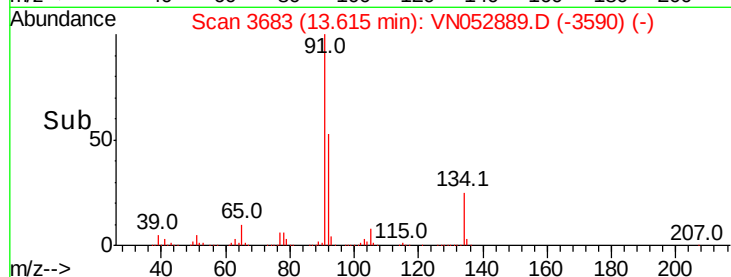
0

13.62

13.60

13.70

Time-->



#90

Hexachloroethane

Concen: 45.056 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN052889.D

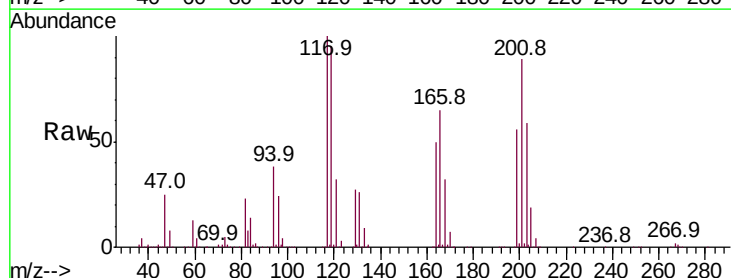
Acq: 14 Dec 2018 15:21

Tgt Ion: 117 Resp: 362420

Ion Ratio Lower Upper

117 100

201 90.7 45.7 137.1



Abundance Ion 116.80 (116.50 to 117.50): VN052827.D (-3748) (-)

Ion 200.70 (200.40 to 201.40): VN052827.D (-3748) (-)

250000

200000

150000

100000

50000

0

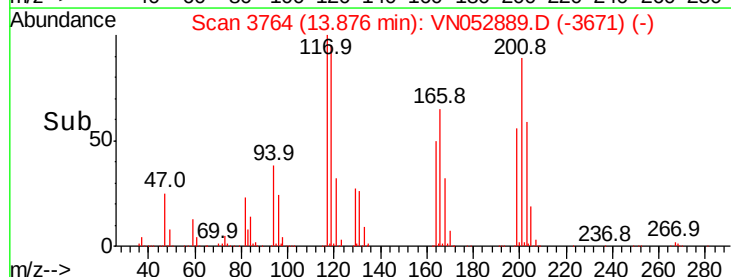
13.88

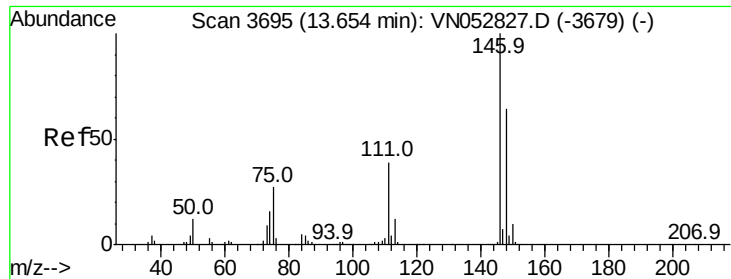
13.80

13.90

13.95

Time-->





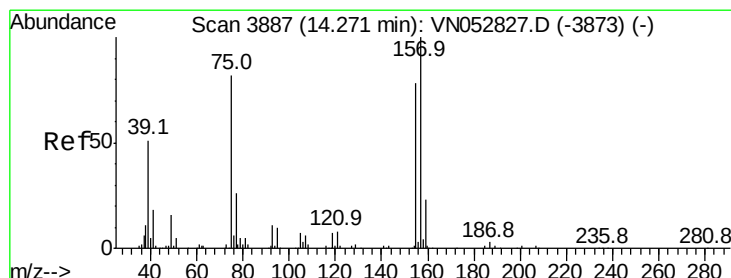
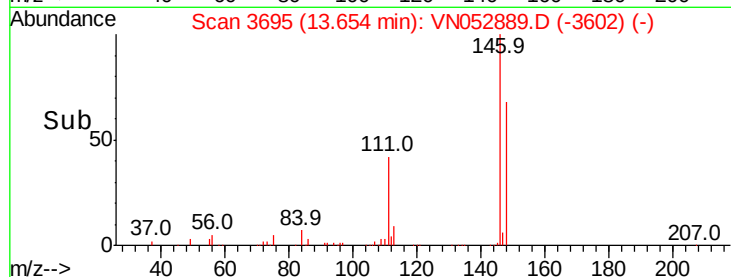
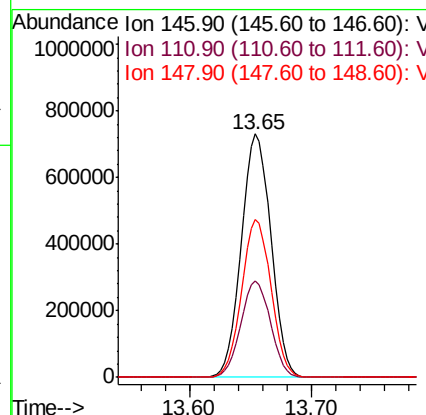
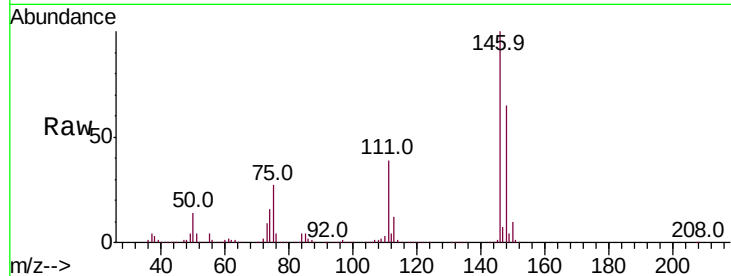
#91
 1,2-Dichlorobenzene
 Concen: 49.078 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.7	59.0
148	64.3	32.0	96.0

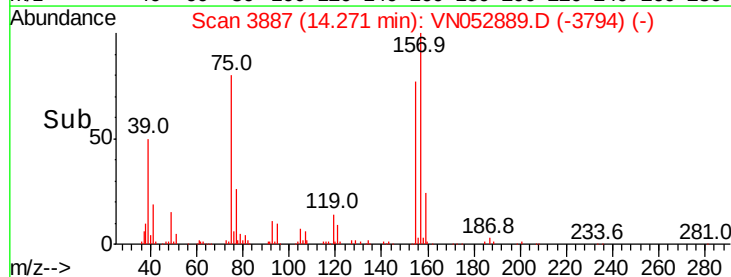
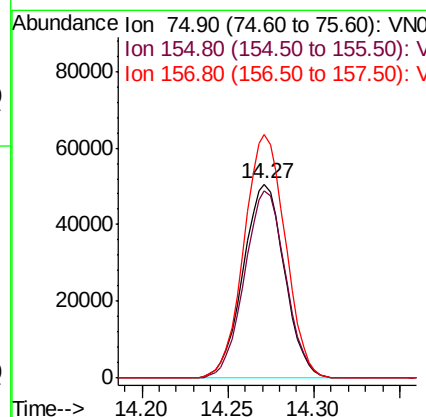
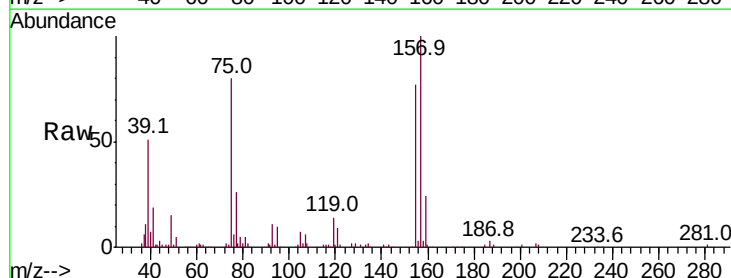
Manual Integrations
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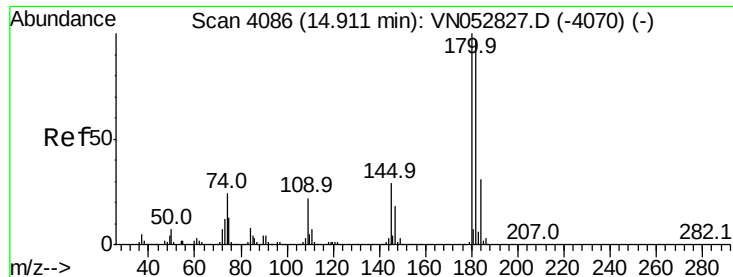
MMDadoda
 12/17/2018 3:05:50 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 43.651 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.3	48.2	144.6
157	124.9	61.2	183.5





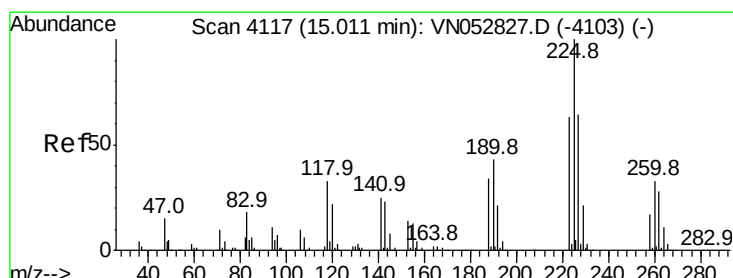
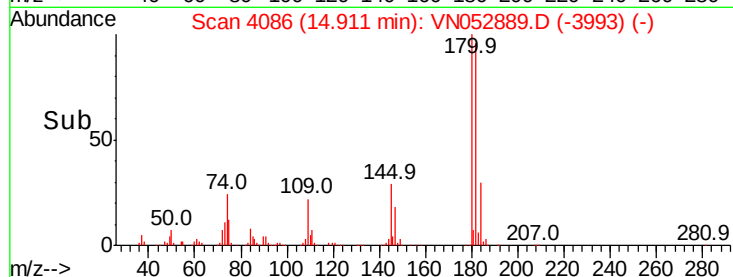
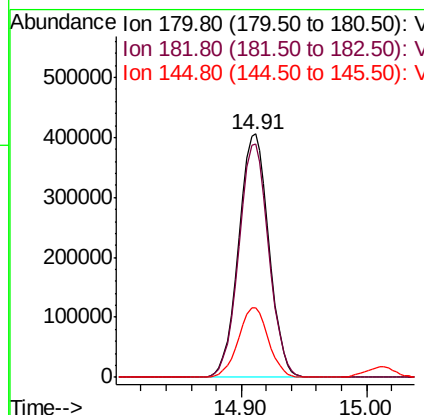
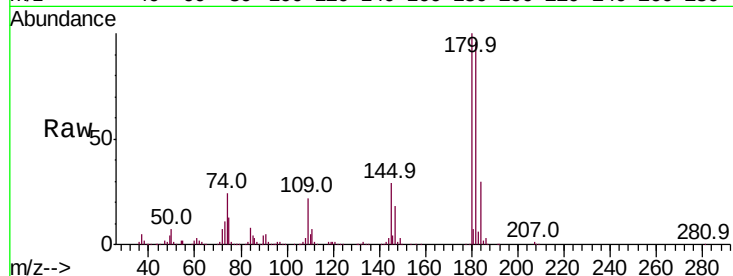
#93
 1,2,4-Trichlorobenzene
 Concen: 49.843 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.0	47.8	143.3	
145	28.6	14.2	42.6	

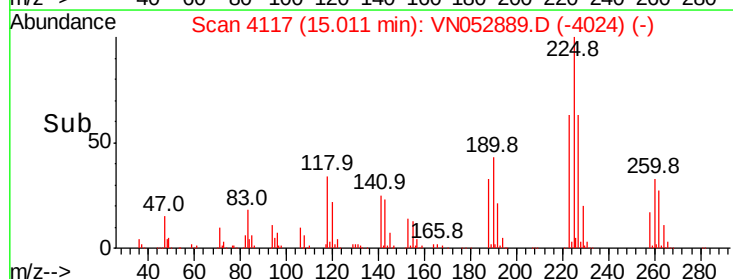
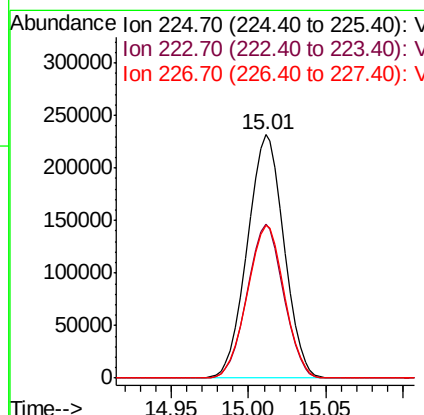
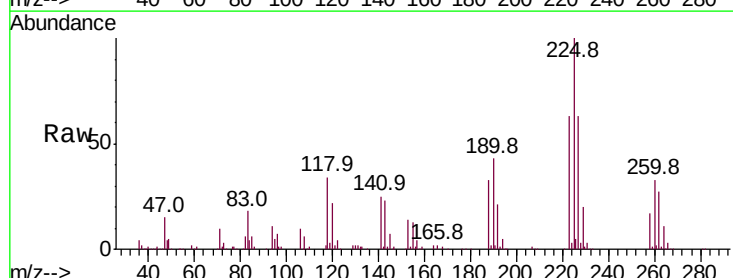
Manual Integrations
 APPROVED

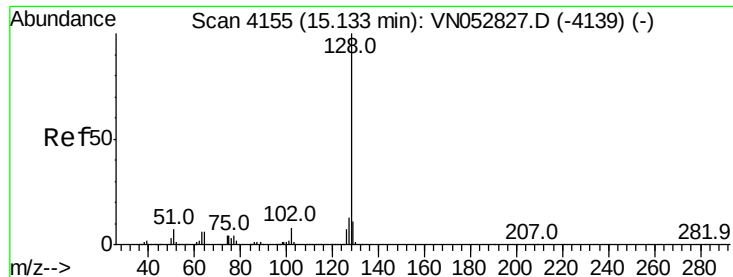
MMDadoda
 12/17/2018 3:05:50 PM



#94
 Hexachlorobutadiene
 Concen: 48.588 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052889.D
 Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.9	31.5	94.5	
227	63.5	31.9	95.7	





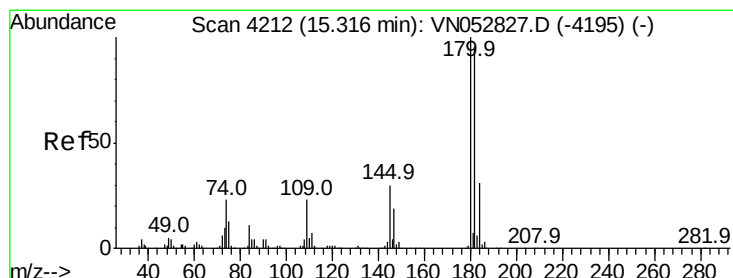
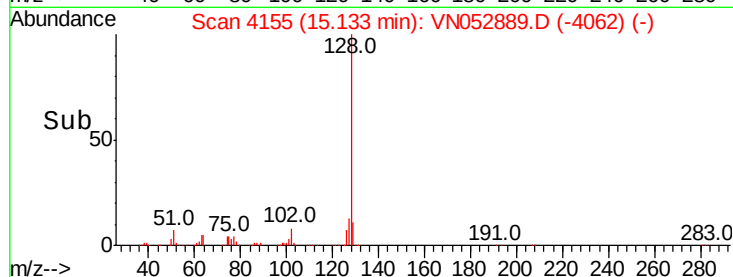
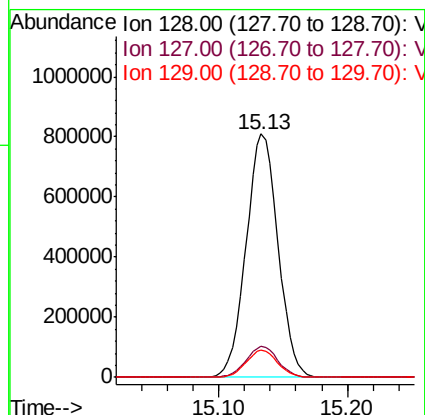
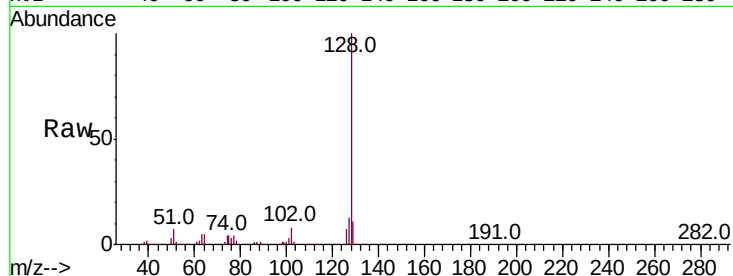
#95
Naphthalene
Concen: 49.516 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	11.0	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/17/2018 3:05:50 PM



#96
1,2,3-Trichlorobenzene
Concen: 47.434 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052889.D
Acq: 14 Dec 2018 15:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.7
145	30.1	15.0	45.0

