

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\
 Data File : VN052764.D
 Acq On : 10 Dec 2018 20:04
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 12/11/2018 12:46:00 PM

Quant Time: Dec 11 01:18:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	161168	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	931232	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	815708	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	322619	29.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.93%
60) 4-Bromofluorobenzene	12.40	95	370847	29.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.13%
63) Toluene-d8	10.09	98	1096574	28.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	160258	17.459 ug/l	99
3) Chloromethane	2.06	50	212496	17.456 ug/l	97
4) Vinyl Chloride	2.19	62	223071	18.156 ug/l	97
5) Bromomethane	2.58	94	118742	16.950 ug/l	100
6) Chloroethane	2.71	64	136025	18.617 ug/l	98
7) Trichlorofluoromethane	3.03	101	288675	19.038 ug/l	99
8) Diethyl Ether	3.41	74	112165	20.033 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	176734	18.386 ug/l	96
10) 1,1-Dichloroethene	3.74	96	172267	19.060 ug/l	97
11) Methyl Iodide	3.96	142	215483	17.172 ug/l	99
12) Methyl Acetate	4.33	43	161811	21.071 ug/l	98
13) Acrolein	3.61	56	51139	56.692 ug/l	96
14) Acrylonitrile	4.99	53	336438	102.824 ug/l	98
15) Acetone	3.82	58	76332	90.081 ug/l	97
16) Carbon Disulfide	4.06	76	479915	16.772 ug/l	100
17) Allyl chloride	4.33	41	271509	17.226 ug/l	98
18) Methylene Chloride	4.56	84	204293	19.522 ug/l	95
19) trans-1,2-Dichloroethene	5.05	96	186808	19.206 ug/l	94
20) Diisopropyl ether	5.95	45	634388	19.152 ug/l	98
21) 1,1-Dichloroethane	5.85	63	363606	19.260 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	219099	19.655 ug/l	97
23) tert-Butyl Alcohol	4.77	59	58509	120.206 ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	501364	21.146 ug/l	98
25) Chloroform	7.37	83	354726	19.477 ug/l	99
26) Cyclohexane	7.66	56	317760	17.846 ug/l #	97
29) 1,1-Dichloropropene	7.80	75	269488	18.950 ug/l	99
30) 2-Butanone	6.84	43	376699	98.994 ug/l	98
31) 2,2-Dichloropropane	6.83	77	248179	18.956 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	296070	20.009 ug/l	97
33) Carbon Tetrachloride	7.78	117	252592	19.509 ug/l	97
34) Benzene	8.04	78	830951	19.435 ug/l	98
35) Methacrylonitrile	7.17	41	96349	20.408 ug/l	97
36) 1,2-Dichloroethane	8.12	62	254335	19.630 ug/l	98
37) Trichloroethene	8.84	130	222992	20.568 ug/l	96
38) Methylcyclohexane	9.08	83	312562	17.755 ug/l	97
39) 1,2-Dichloropropane	9.12	63	221111	19.293 ug/l	98
40) Dibromomethane	9.21	93	126859	20.483 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	266119	19.448	ug/l	99
42) Vinyl Acetate	5.90	43	1914984	93.010	ug/l	98
43) Ethyl Acetate	6.93	43	169700	20.973	ug/l #	69
44) Isopropyl Acetate	8.16	43	344454m	24.273	ug/l	
45) 1,4-Dioxane	9.20	88	32127	413.829	ug/l	93
46) Methyl methacrylate	9.20	41	153938	20.892	ug/l	97
47) n-amyl Acetate	12.07	43	261566	22.230	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	259120	19.530	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	310234	19.192	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	182243	20.759	ug/l	99
51) Ethyl methacrylate	10.43	69	239180	21.692	ug/l	96
52) 1,3-Dichloropropane	10.71	76	315615	20.197	ug/l	99
53) Dibromochloromethane	10.90	129	196280	20.307	ug/l	96
54) 1,2-Dibromoethane	11.01	107	178510	20.808	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	679195	105.233	ug/l	98
56) Bromoform	12.13	173	131192	20.766	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	865113	109.396	ug/l	99
59) 2-Hexanone	10.75	43	575137	106.465	ug/l	98
61) Tetrachloroethene	10.63	164	233873	23.279	ug/l	96
62) Toluene	10.16	91	882112	19.617	ug/l	100
64) Chlorobenzene	11.43	112	549360	20.015	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	192740	20.231	ug/l	99
66) Ethyl Benzene	11.51	91	941905	19.435	ug/l	99
67) m/p-Xylenes	11.62	106	716467	39.681	ug/l	98
68) o-Xylene	11.95	106	352960	20.141	ug/l	99
69) Styrene	11.96	104	561893	19.864	ug/l	100
70) Isopropylbenzene	12.25	105	933144	20.012	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	211296	20.832	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	185314m	21.283	ug/l	
73) Bromobenzene	12.53	156	234807	20.821	ug/l	96
74) n-propylbenzene	12.59	91	1053139	19.385	ug/l	99
75) 2-Chlorotoluene	12.67	91	631319	20.020	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	747996	19.861	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	53422	19.422	ug/l	99
78) 4-Chlorotoluene	12.77	91	629517	19.990	ug/l	99
79) tert-butylbenzene	12.99	119	668111	20.370	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	774335	20.547	ug/l	99
81) sec-Butylbenzene	13.17	105	893545	19.559	ug/l	100
82) p-Isopropyltoluene	13.29	119	772755	19.864	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	406335	20.487	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	400123	20.880	ug/l	99
85) n-Butylbenzene	13.62	91	624188	18.680	ug/l	99
86) Hexachloroethane	13.88	117	125386	19.023	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	400791	21.235	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	32393	22.799	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	211222	22.714	ug/l	99
90) Hexachlorobutadiene	15.01	225	119796	19.638	ug/l	99
91) Naphthalene	15.13	128	470108	25.034	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	196624	22.944	ug/l	98

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ClientSampleId :
VSTDCCC020EC

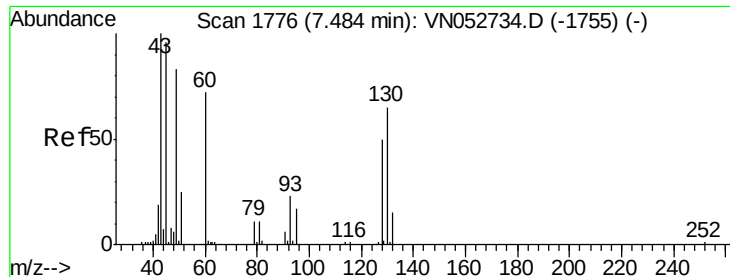
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



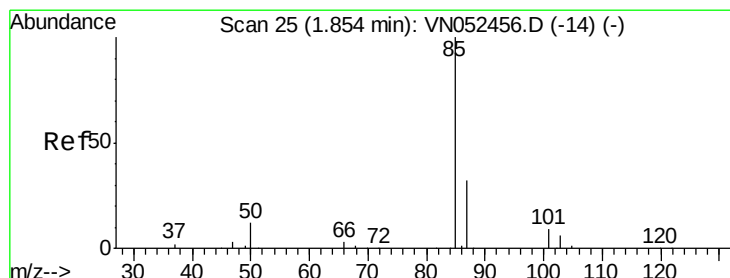
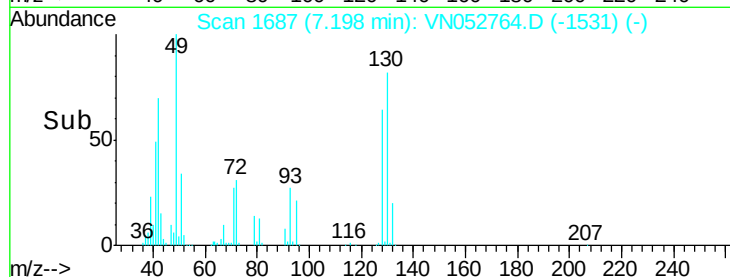
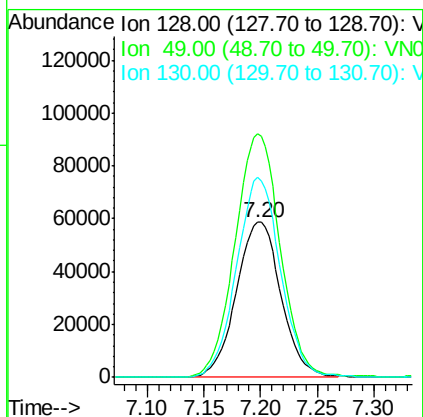
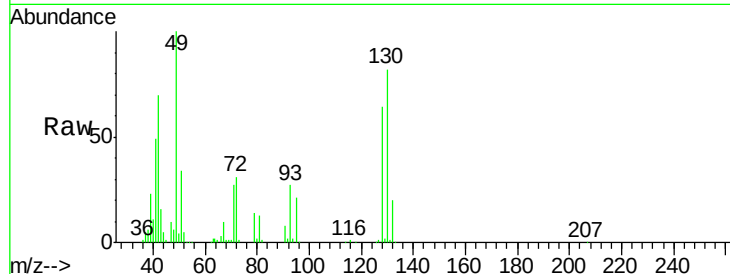
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
49	159.0	0.0	431.8
130	127.2	0.0	317.0

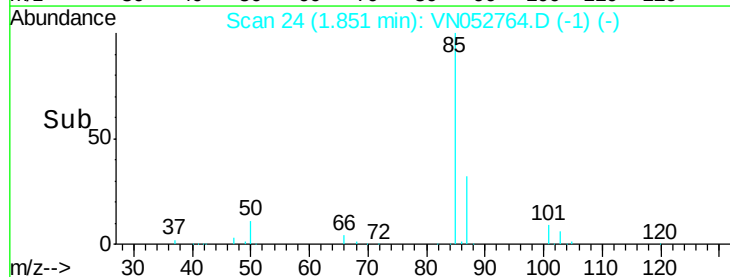
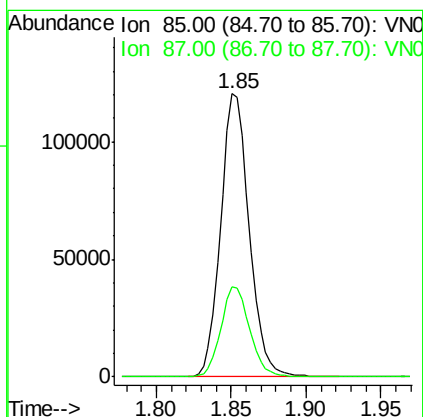
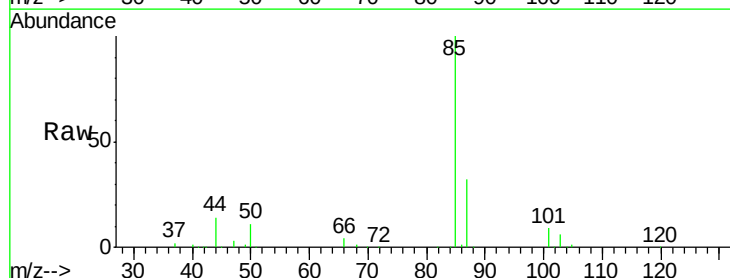
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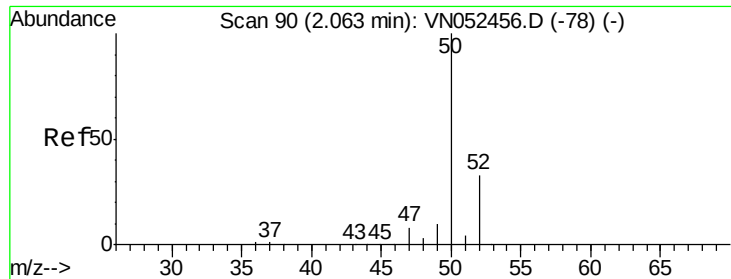
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#2
Dichlorodifluoromethane
Concen: 17.459 ug/l
RT: 1.85 min Scan# 24
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.1	48.3





#3

Chloromethane

Concen: 17.456 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 212496

Ion Ratio Lower Upper

50 100

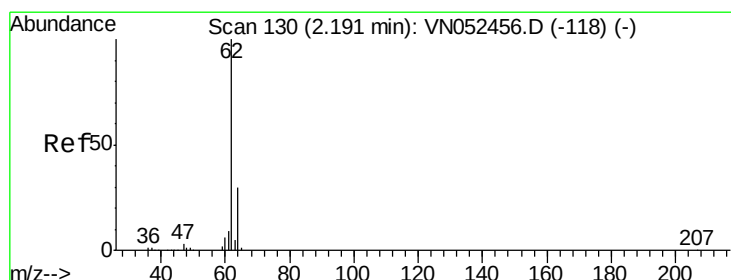
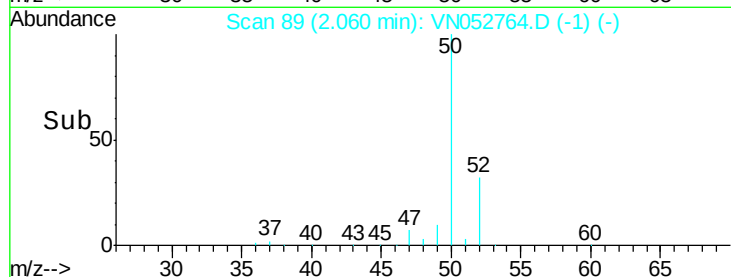
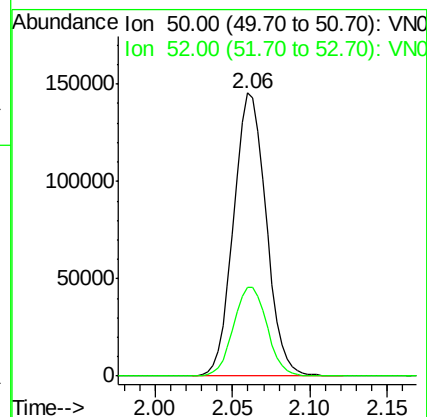
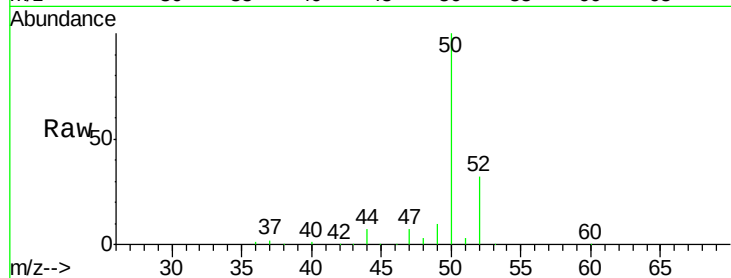
52 31.6 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.156 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052764.D

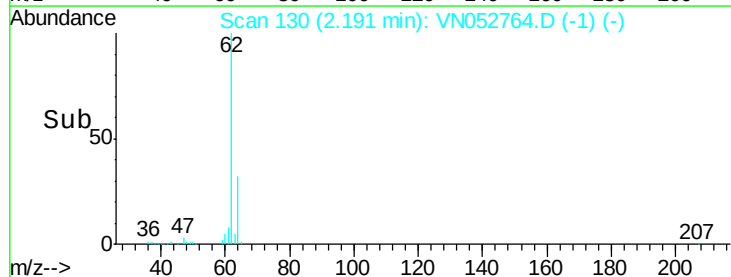
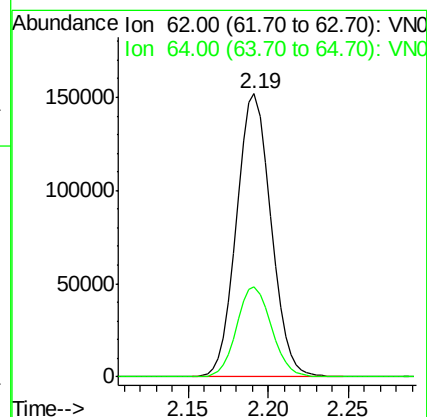
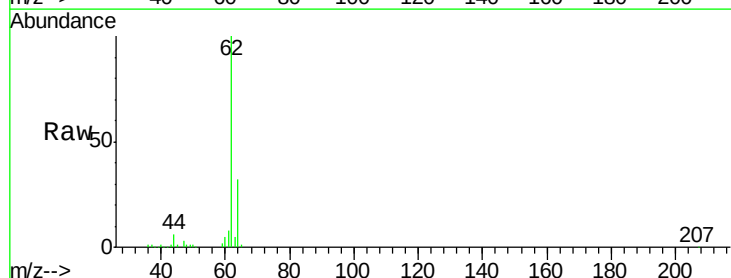
Acq: 10 Dec 2018 20:04

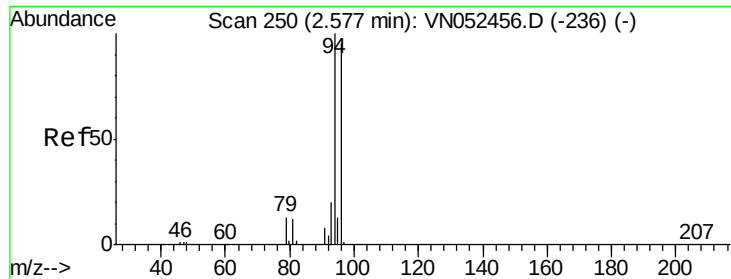
Tgt Ion: 62 Resp: 223071

Ion Ratio Lower Upper

62 100

64 31.7 24.2 36.4





#5

Bromomethane

Concen: 16.950 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 94 Resp: 118742

Ion Ratio Lower Upper

94 100

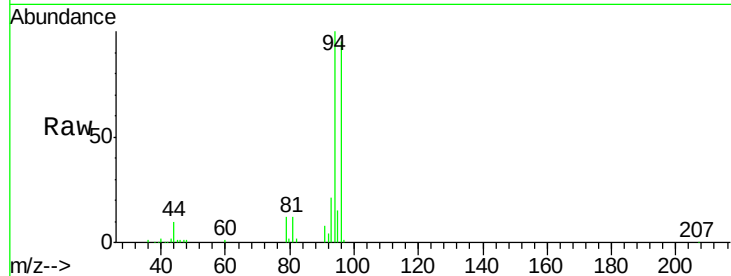
96 94.9 76.2 114.2

Manual Integrations

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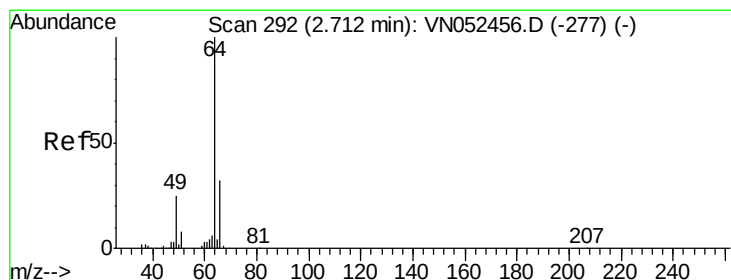
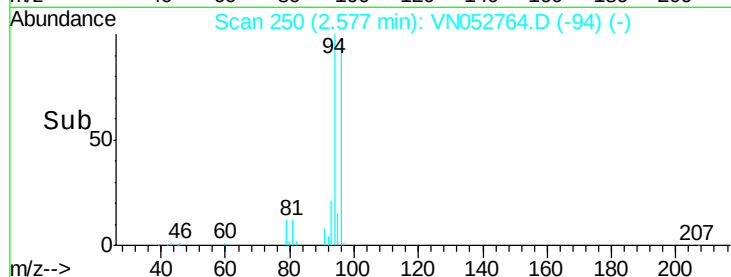
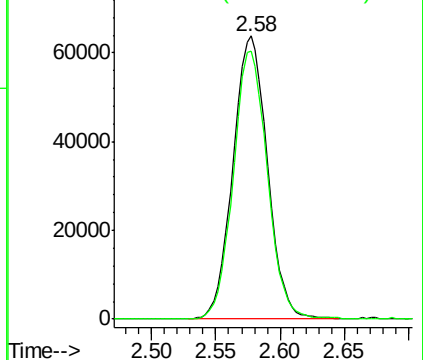
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Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO



#6

Chloroethane

Concen: 18.617 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052764.D

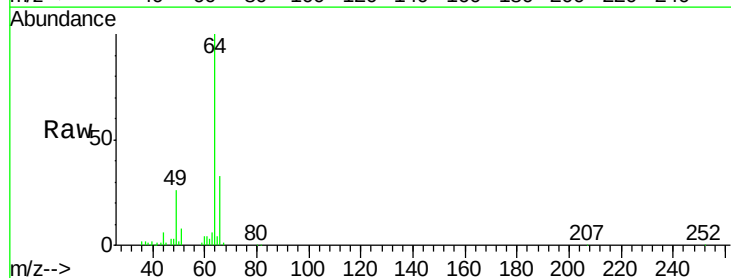
Acq: 10 Dec 2018 20:04

Tgt Ion: 64 Resp: 136025

Ion Ratio Lower Upper

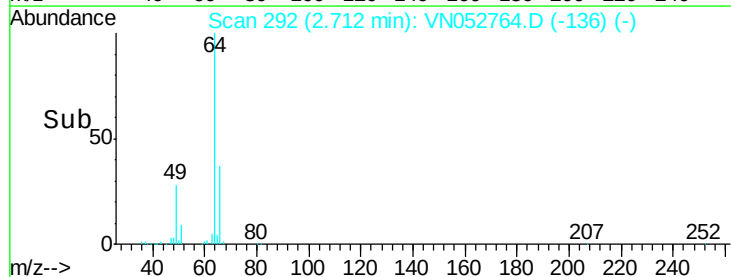
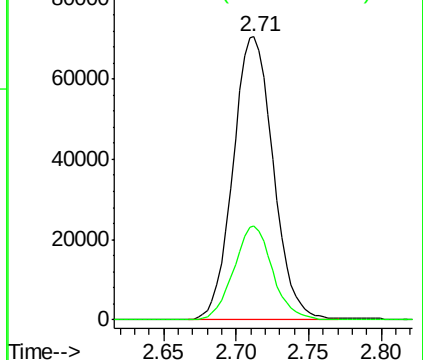
64 100

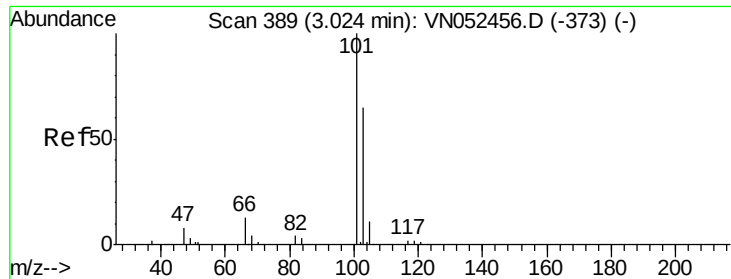
66 33.4 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VNO

Ion 66.00 (65.70 to 66.70): VNO





#7

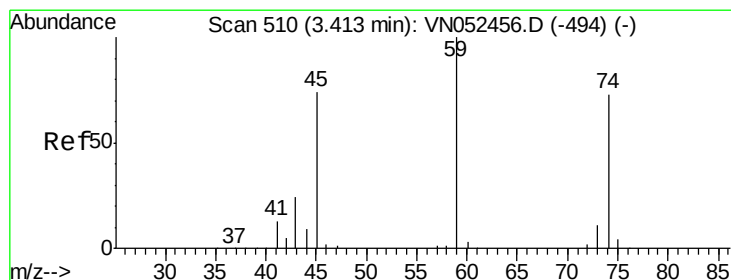
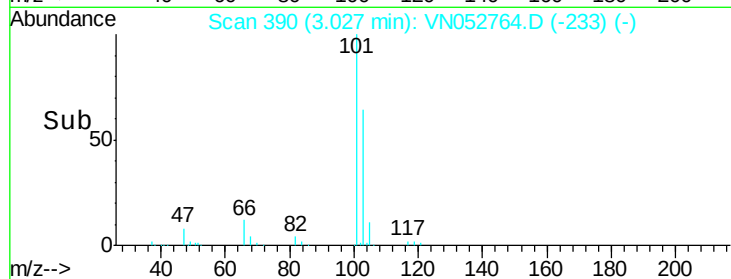
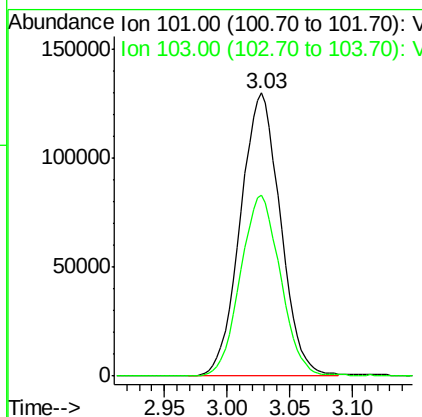
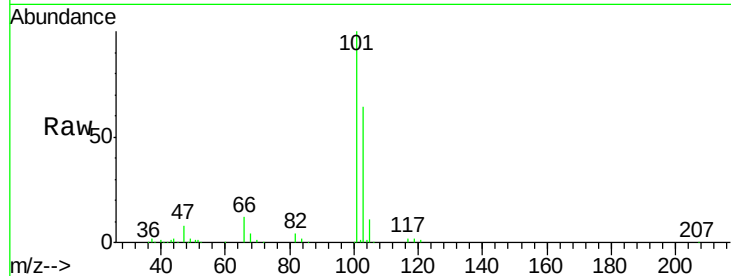
Trichlorofluoromethane
 Concen: 19.038 ug/l
 RT: 3.03 min Scan# 390
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	101	100	288675		
103	103	64.0	52.1	78.1	

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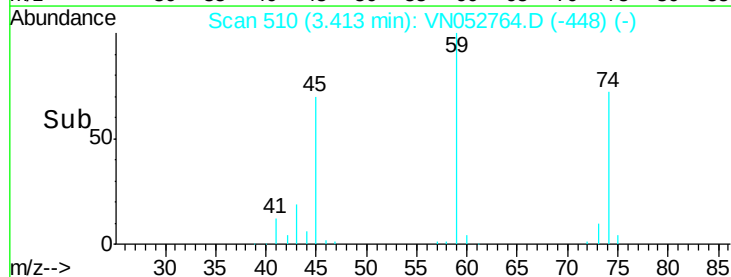
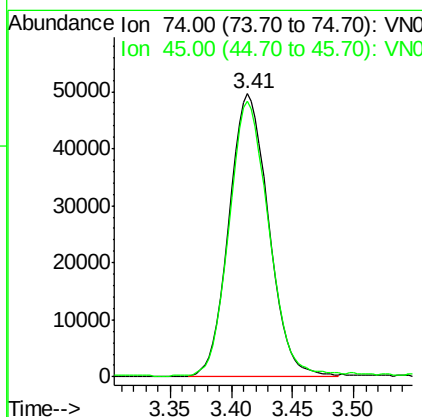
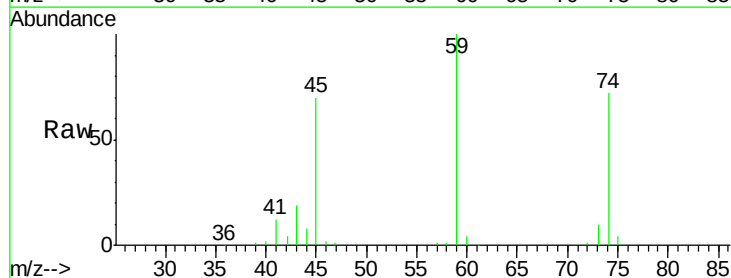
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 12/11/2018 12:46:00 PM

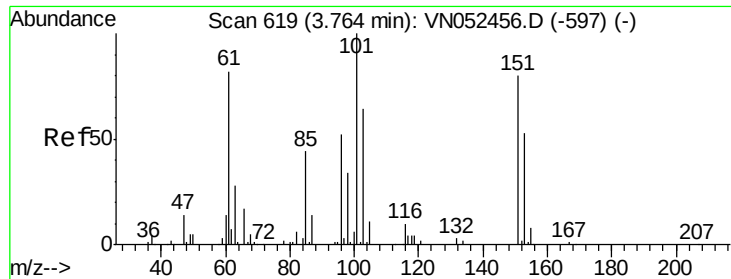


#8

Diethyl Ether
 Concen: 20.033 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	74	100	112165		
45	45	96.7	20.6	185.8	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.386 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

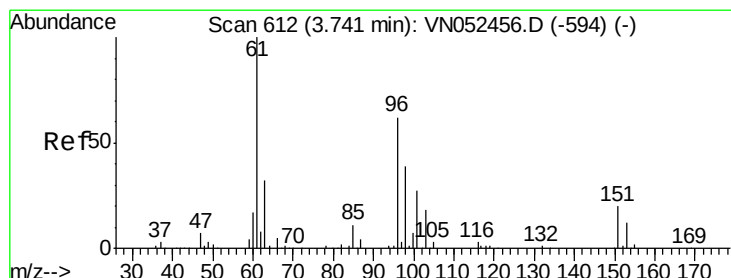
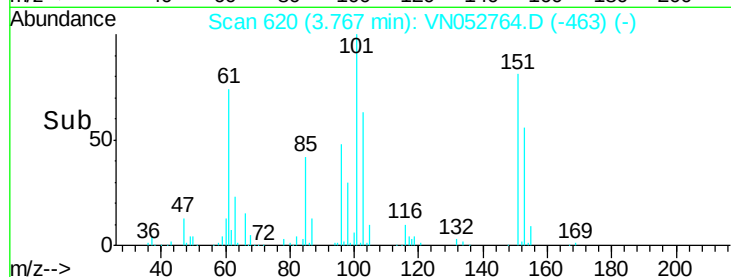
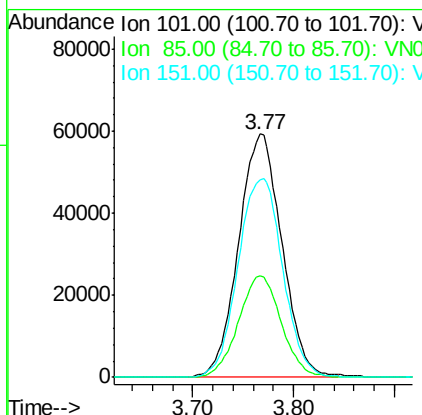
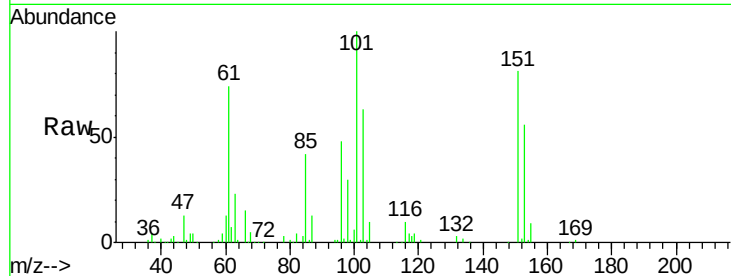
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	176734
Ion Ratio	Lower	Upper	
101	100		
85	41.3	0.0	82.6
151	84.2	0.0	158.4

Manual Integrations
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12/11/2018 12:46:00 PM



#10

1,1-Dichloroethene

Concen: 19.060 ug/l

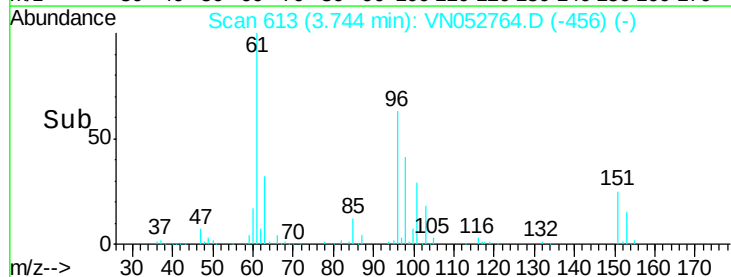
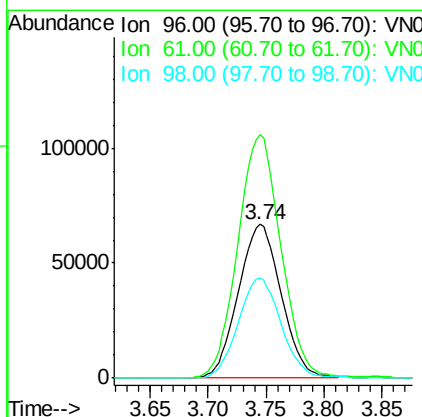
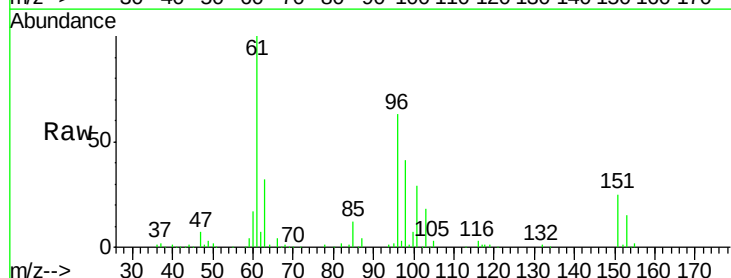
RT: 3.74 min Scan# 613

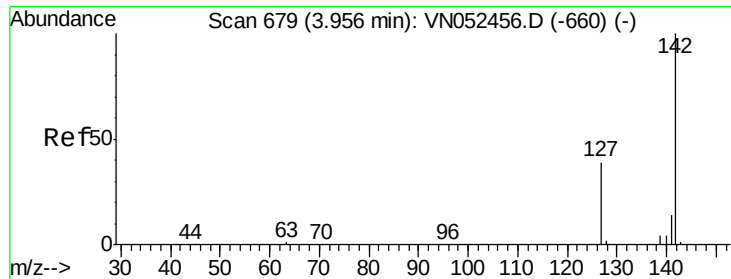
Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Tgt Ion:	96	Resp:	172267
Ion Ratio	Lower	Upper	
96	100		
61	158.0	129.4	194.2
98	65.6	50.4	75.6





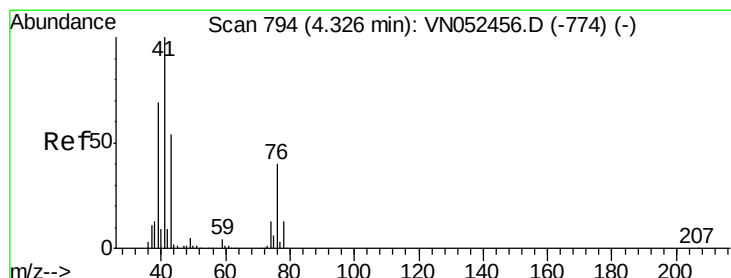
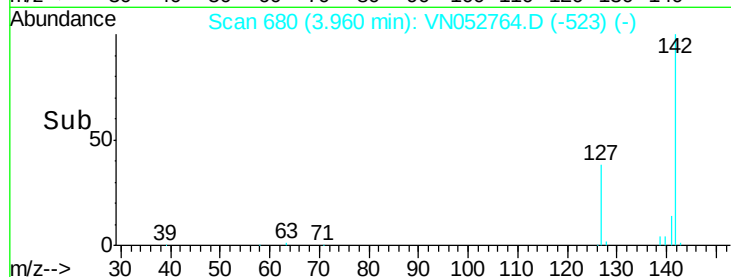
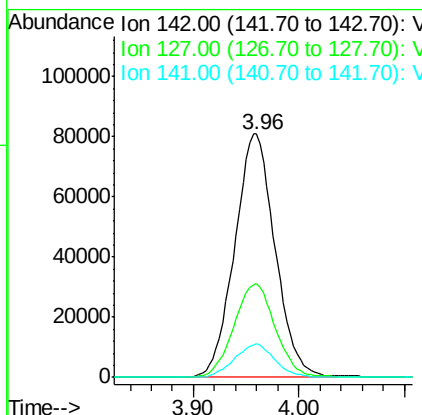
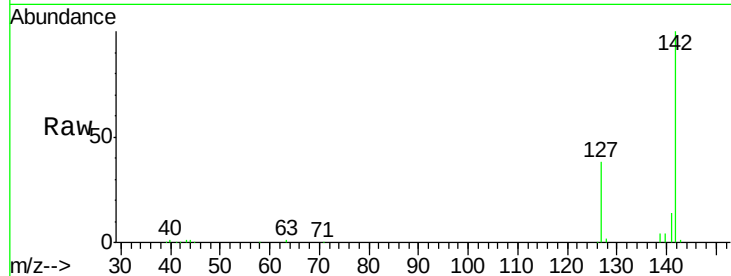
#11
Methyl Iodide
Concen: 17.172 ug/l
RT: 3.96 min Scan# 680
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.3	19.4	58.1
141	13.8	7.2	21.6

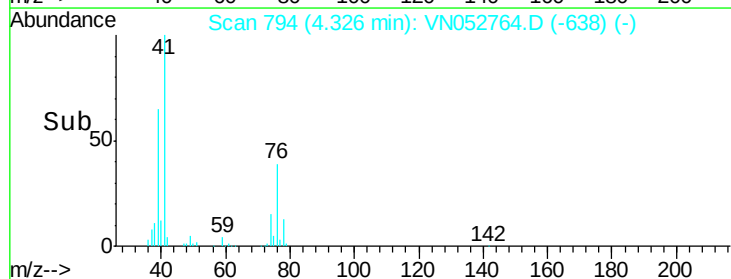
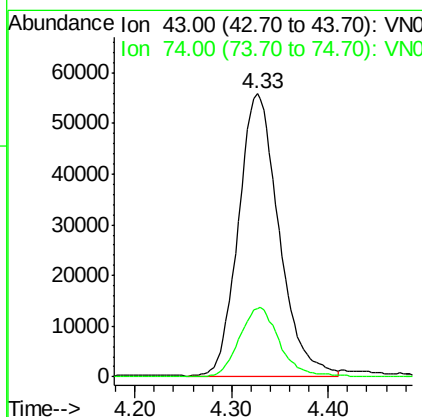
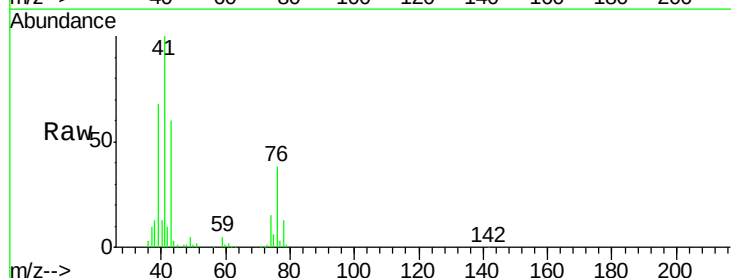
Manual Integrations
APPROVED

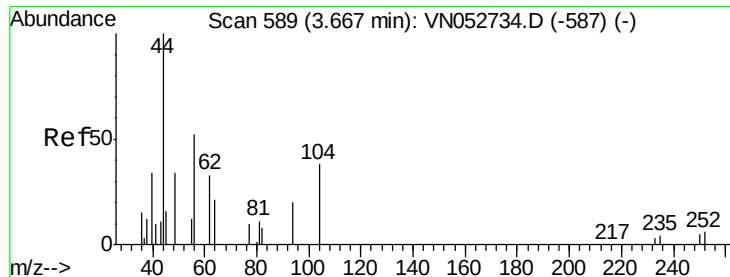
MMDadoda
12/11/2018 12:46:00 PM



#12
Methyl Acetate
Concen: 21.071 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.4	18.9	28.3





#13

Acrolein

Concen: 56.692 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 51139

Ion Ratio Lower Upper

56 100

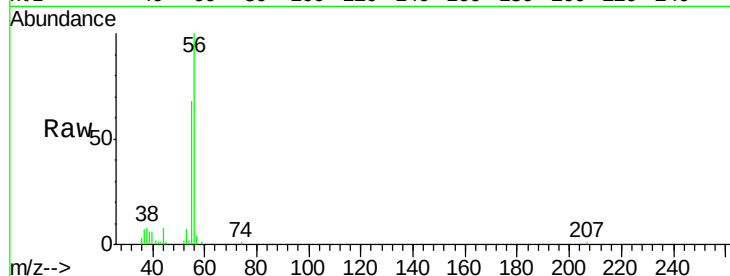
55 67.5 56.7 85.1

Manual Integrations

APPROVED

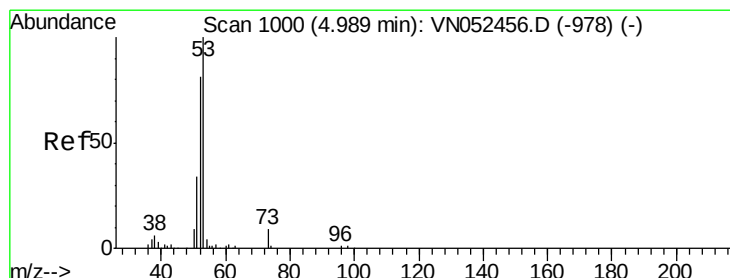
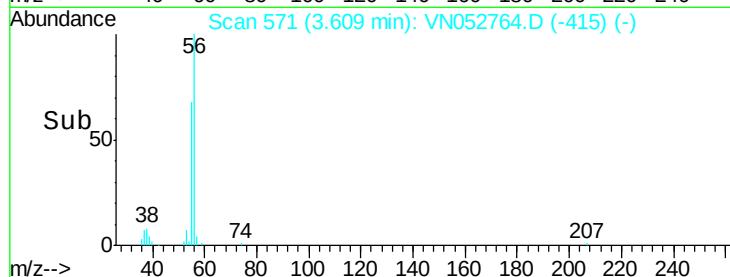
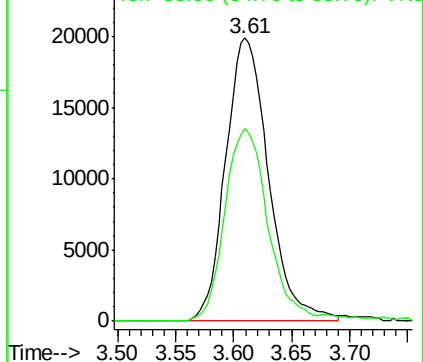
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 102.824 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

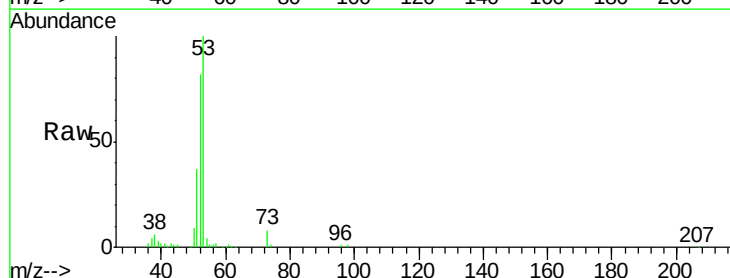
Tgt Ion: 53 Resp: 336438

Ion Ratio Lower Upper

53 100

52 81.0 39.9 119.7

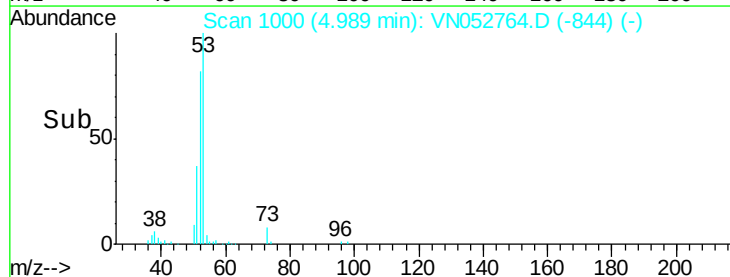
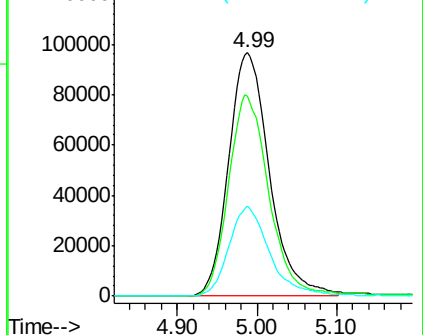
51 36.5 17.6 52.9

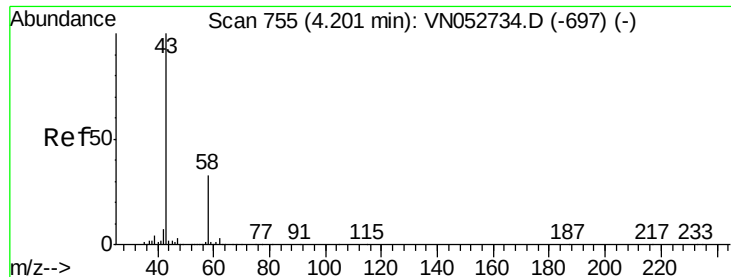


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 90.081 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 76332

Ion Ratio Lower Upper

58 100

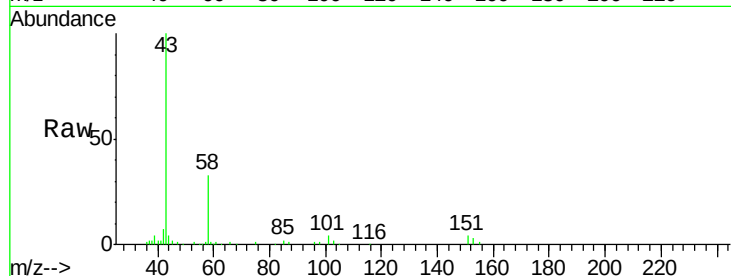
43 299.0 243.6 365.4

Manual Integrations

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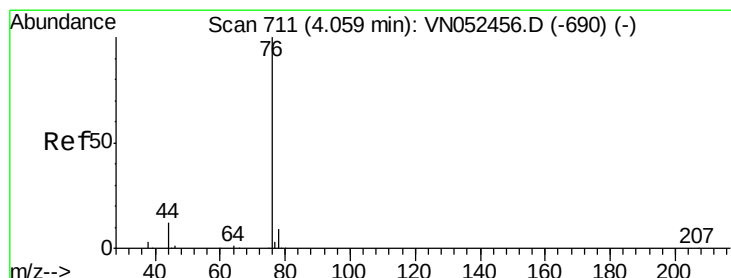
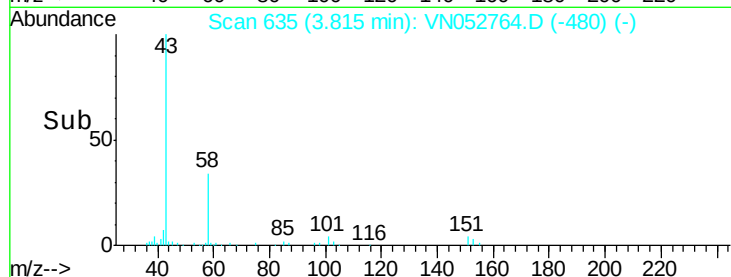
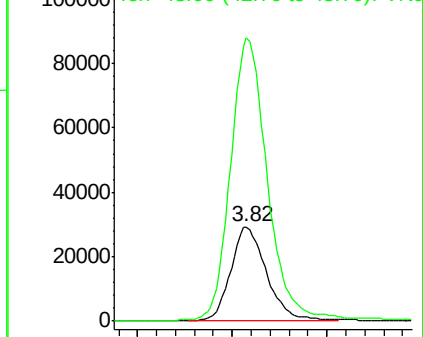
MMDadoda

12/11/2018 12:46:00 PM



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 16.772 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052764.D

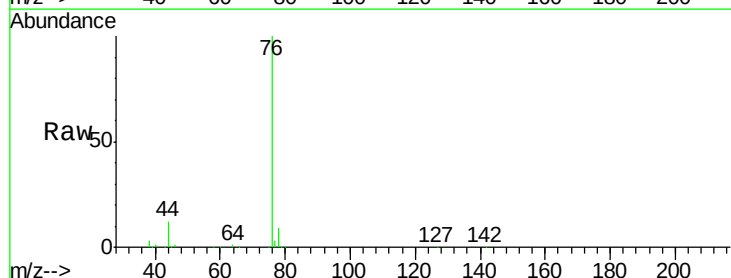
Acq: 10 Dec 2018 20:04

Tgt Ion: 76 Resp: 479915

Ion Ratio Lower Upper

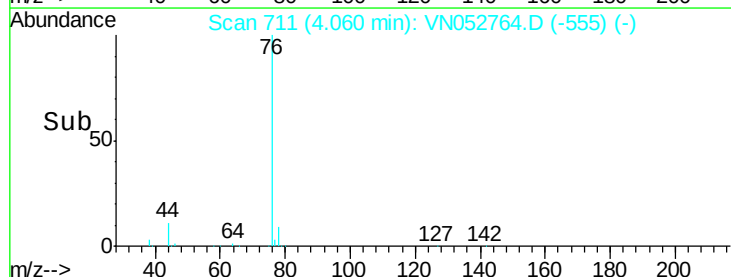
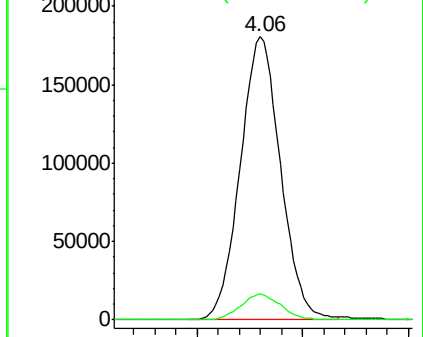
76 100

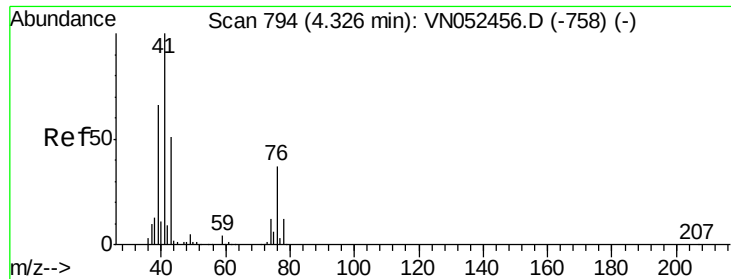
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





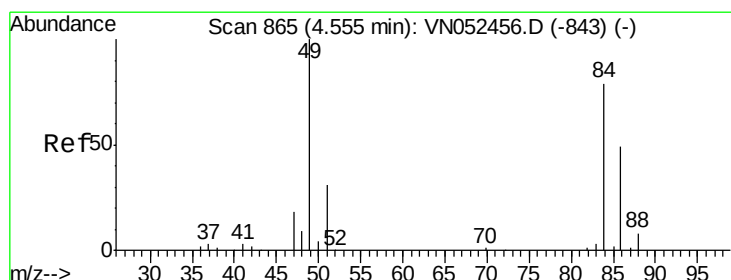
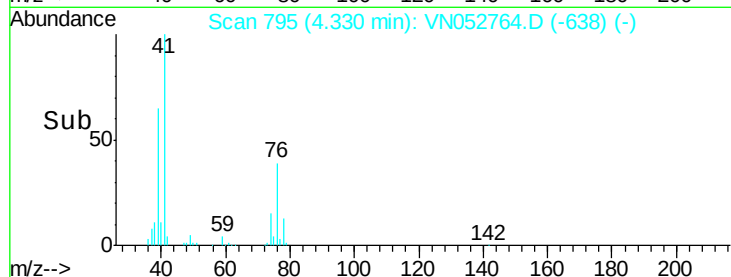
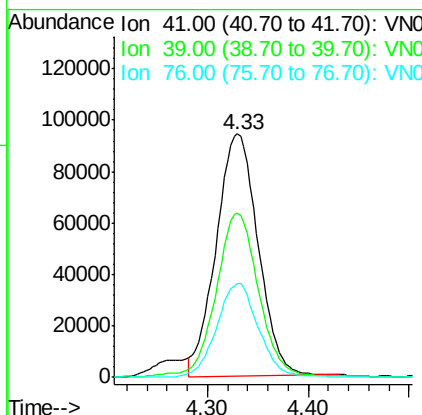
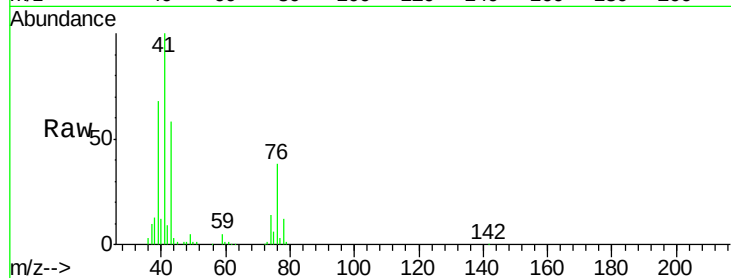
#17
Allvl chloride
Concen: 17.226 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	67.4	32.8	98.3
76	38.5	18.6	55.8

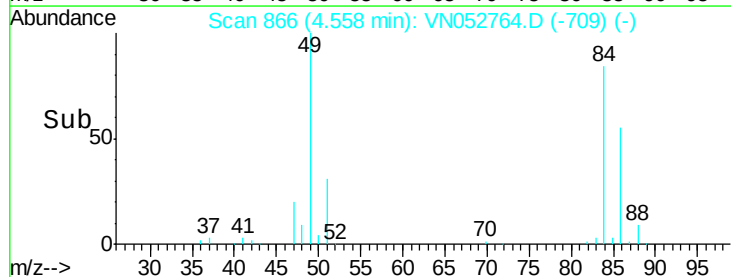
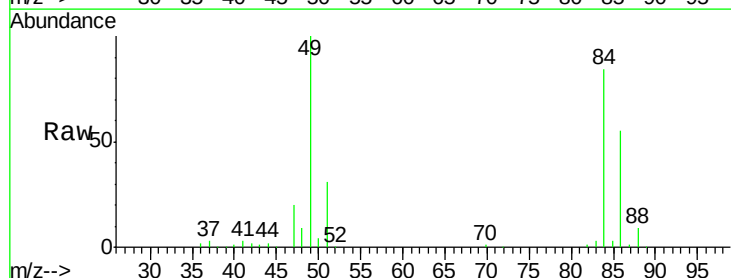
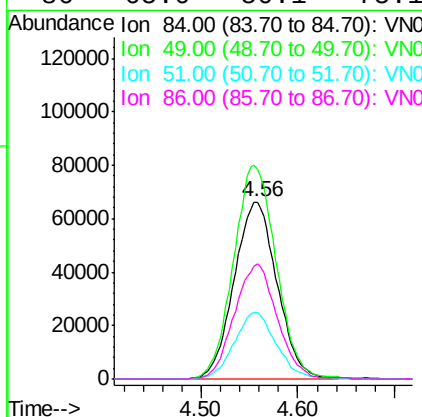
Manual Integrations
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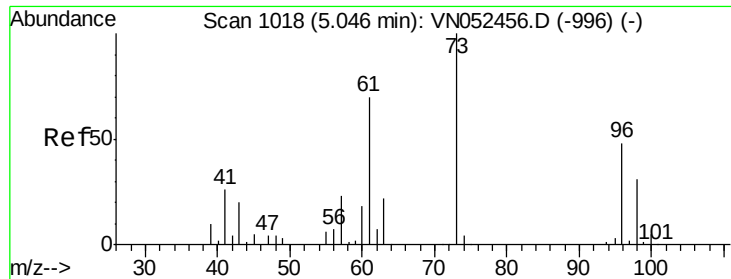
MMDadoda
12/11/2018 12:46:00 PM



#18
Methylene Chloride
Concen: 19.522 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.5	101.4	152.0
51	37.4	31.7	47.5
86	65.0	50.1	75.1





#19

trans-1,2-Dichloroethene

Concen: 19.206 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 96 Resp: 186808

Ion Ratio Lower Upper

96 100

61 138.2 118.2 177.4

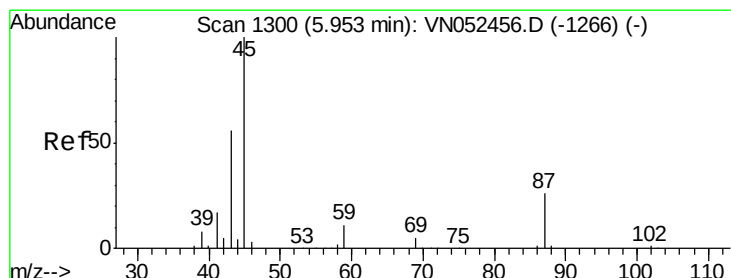
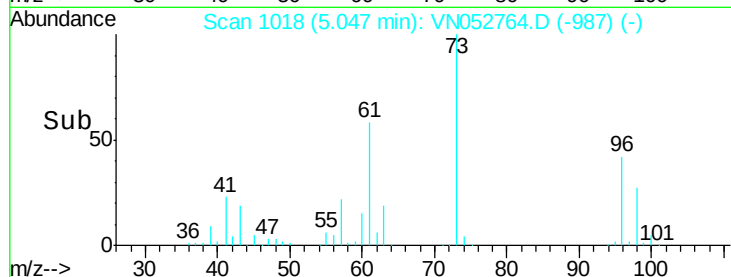
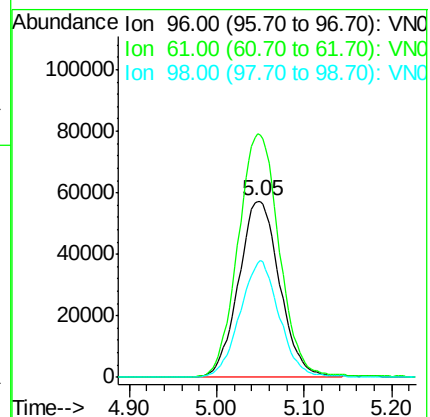
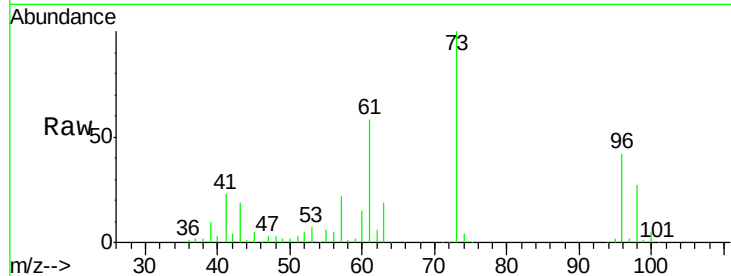
98 65.2 51.4 77.2

Manual Integrations

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MMDadoda

12/11/2018 12:46:00 PM



#20

Diisopropyl ether

Concen: 19.152 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Tgt Ion: 45 Resp: 634388

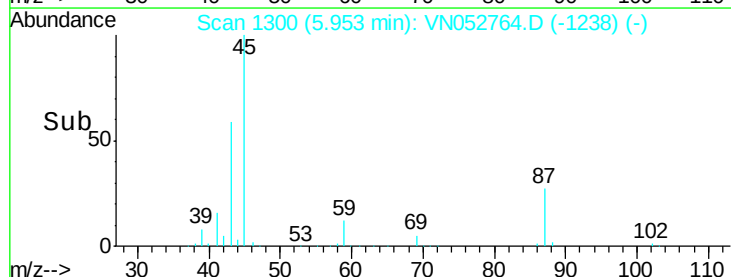
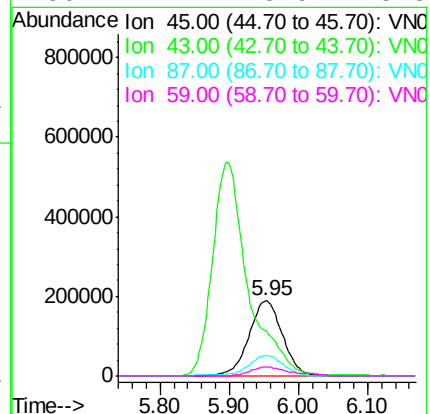
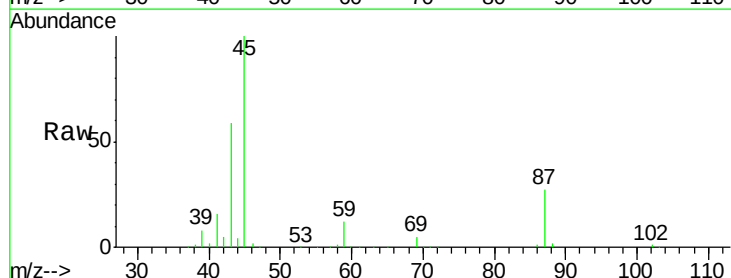
Ion Ratio Lower Upper

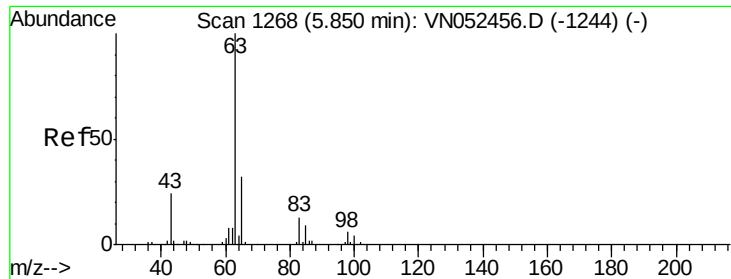
45 100

43 57.8 47.8 71.8

87 27.5 21.3 31.9

59 11.4 8.9 13.3





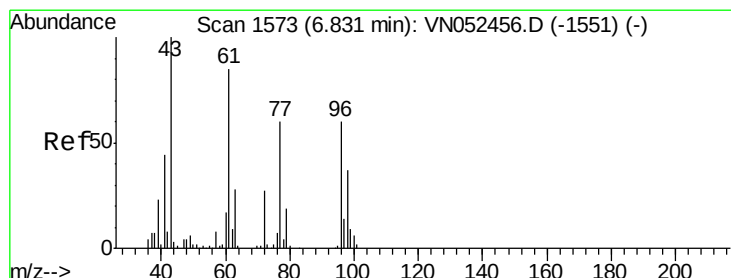
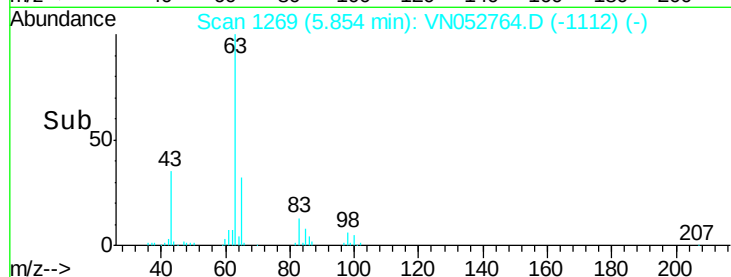
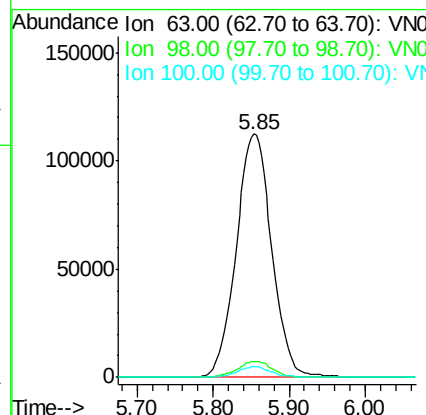
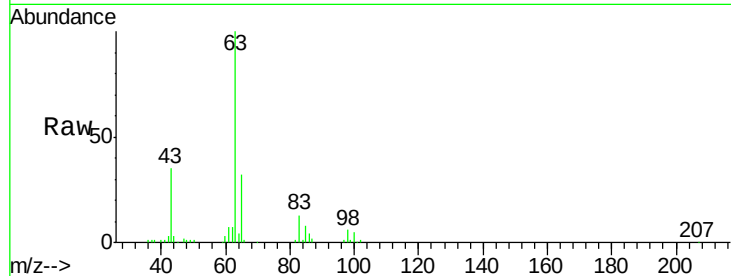
#21
 1,1-Dichloroethane
 Concen: 19.260 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	6.4	3.0	9.2	
100	4.6	1.8	5.5	

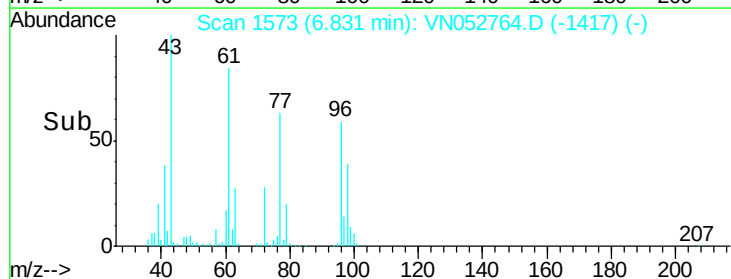
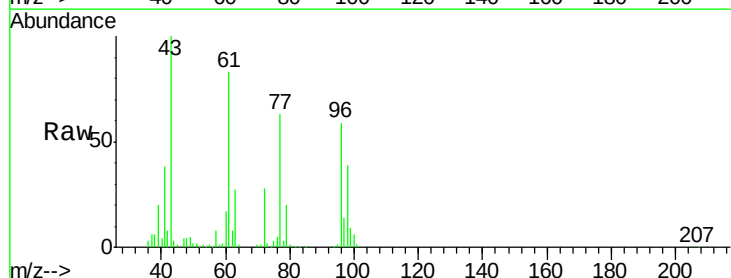
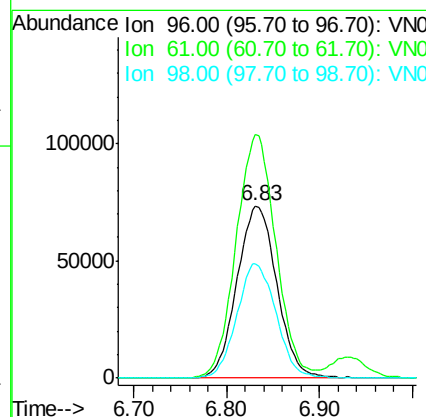
Manual Integrations
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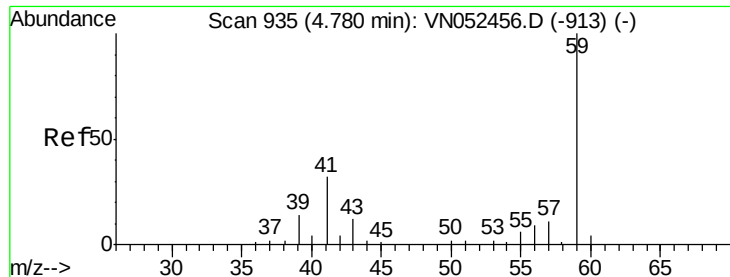
MMDadoda
 12/11/2018 12:46:00 PM



#22
 cis-1,2-Dichloroethene
 Concen: 19.655 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	141.1	116.7	175.1	
98	65.6	50.8	76.2	





#23

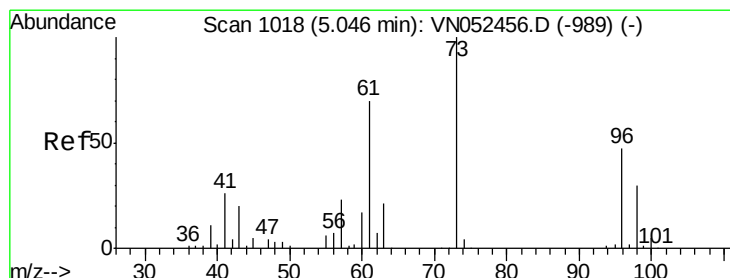
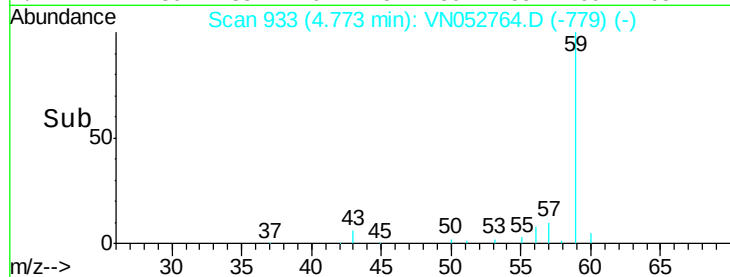
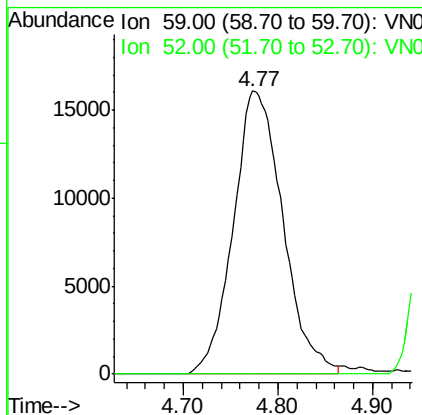
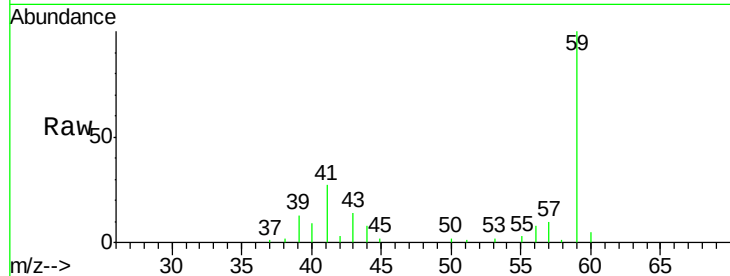
tert-Butyl Alcohol
 Concen: 120.206 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Manual Integrations
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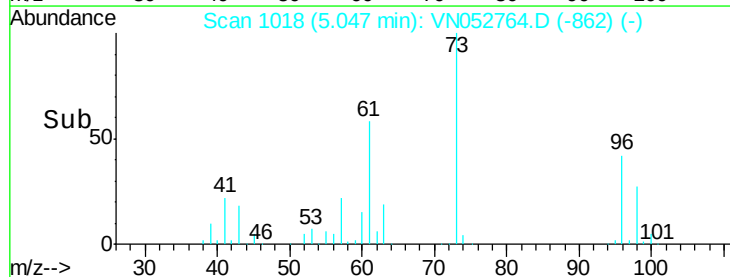
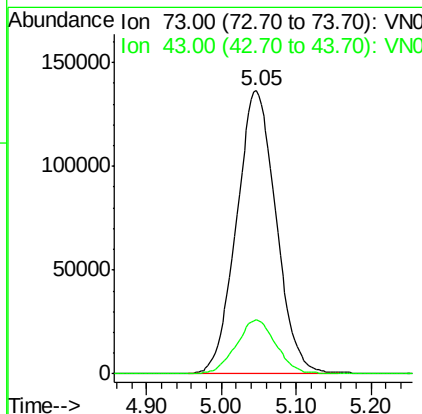
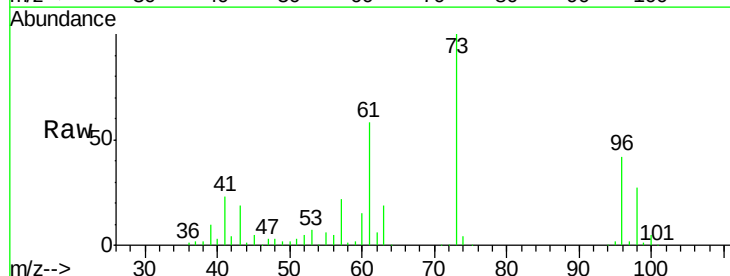
MMDadoda
 12/11/2018 12:46:00 PM

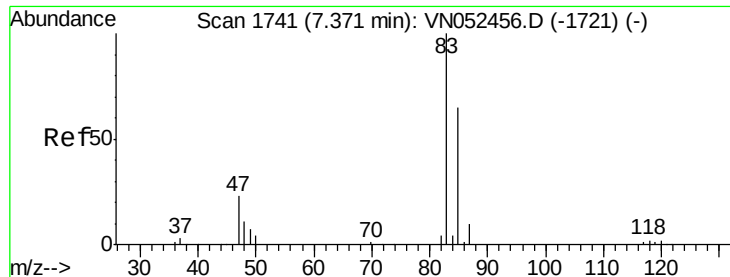


#24

Methyl tert-Butyl Ether
 Concen: 21.146 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.0	15.8	23.8





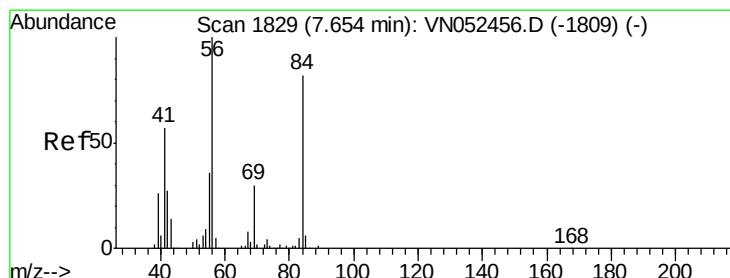
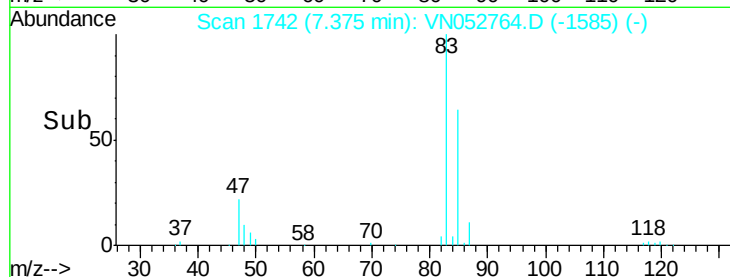
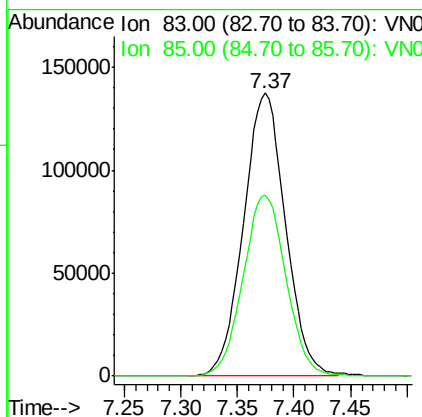
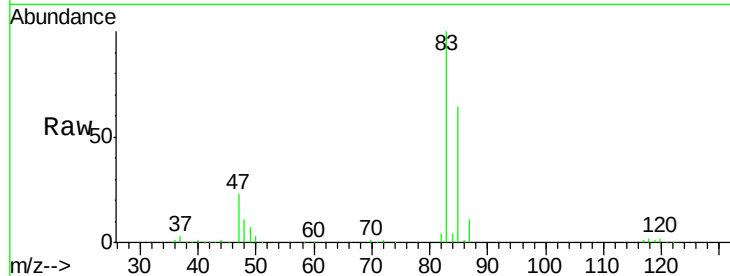
#25
Chloroform
Concen: 19.477 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	354726
Ion Ratio	Lower	Upper	
83	100		
85	63.8	51.7	77.5

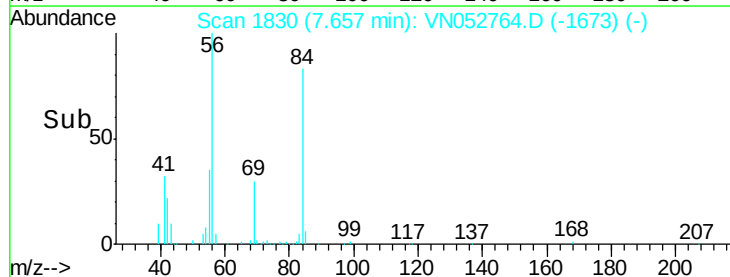
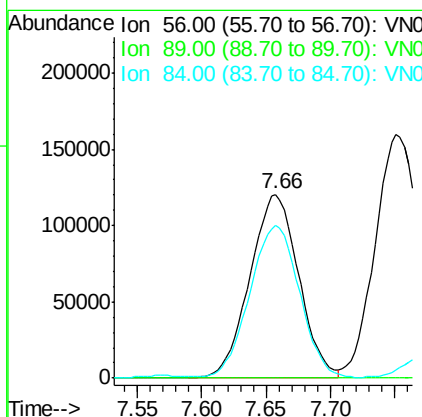
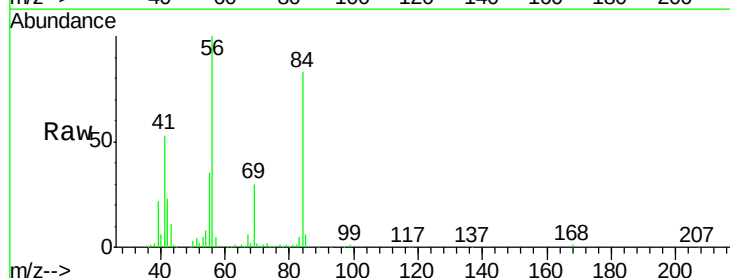
Manual Integrations
APPROVED

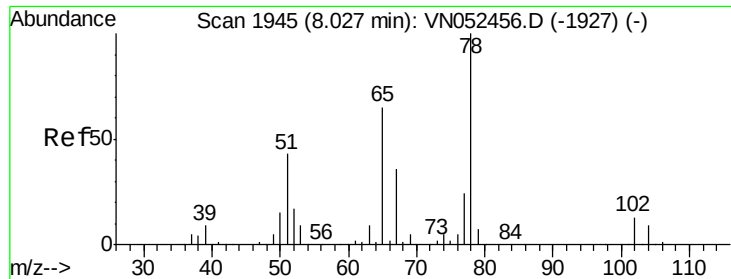
MMDadoda
12/11/2018 12:46:00 PM



#26
Cyclohexane
Concen: 17.846 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	56	Resp	317760
Ion Ratio	Lower	Upper	
56	100		
89	0.1	0.5	0.7#
84	85.0	66.2	99.2





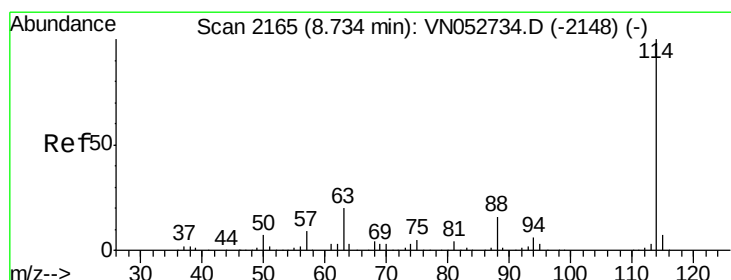
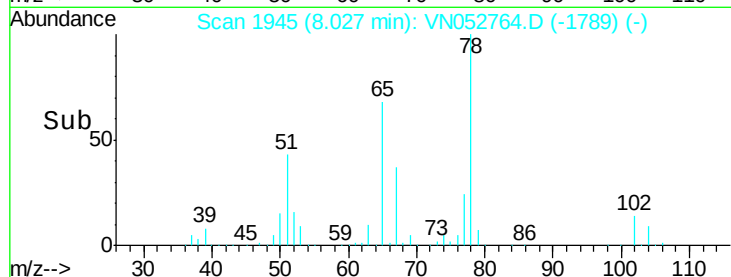
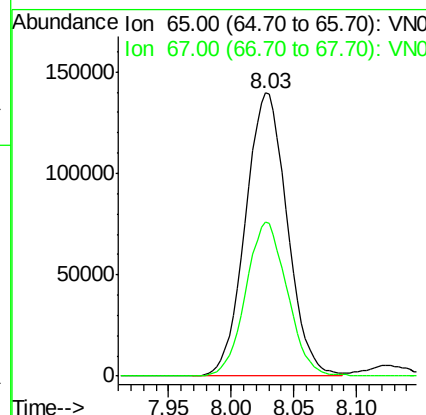
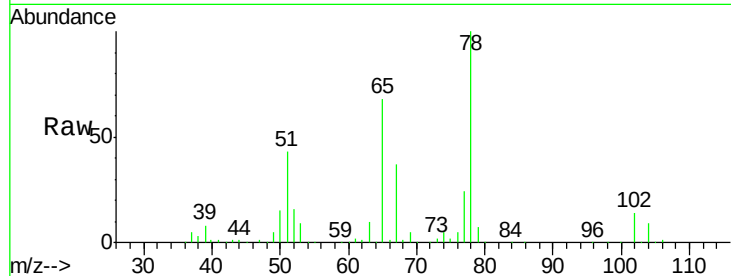
#27
 1,2-Dichloroethane-d4
 Concen: 17.846 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	322619		
67	54.1		44.6	66.8

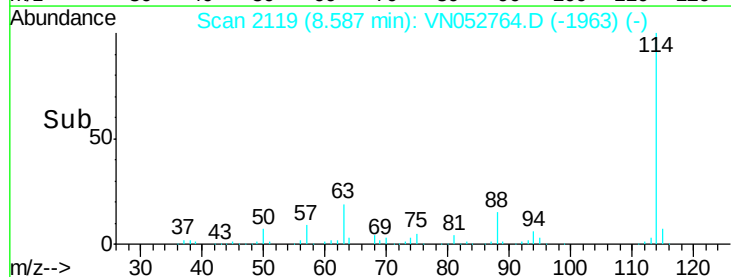
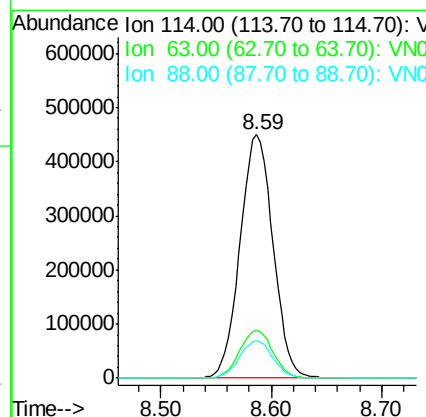
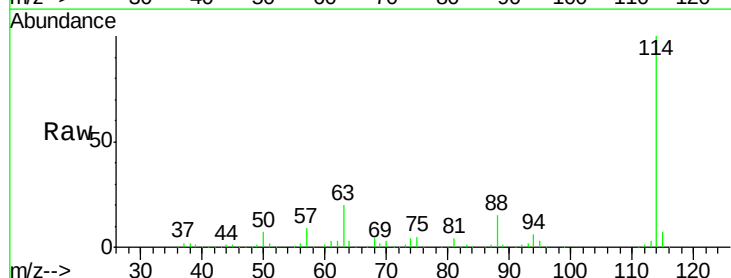
Manual Integrations
 APPROVED

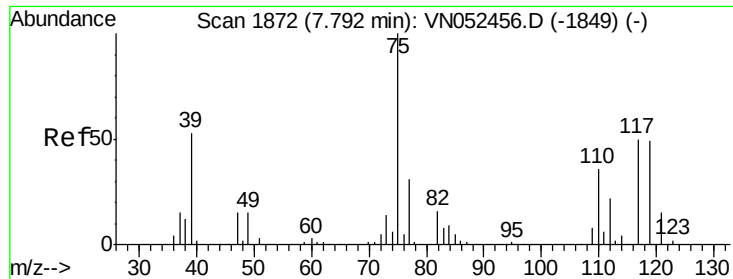
MMDadoda
 12/11/2018 12:46:00 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	931232		
63	19.9		16.9	25.3
88	15.4		12.8	19.2





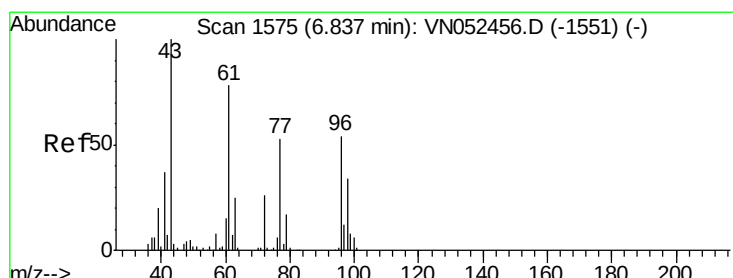
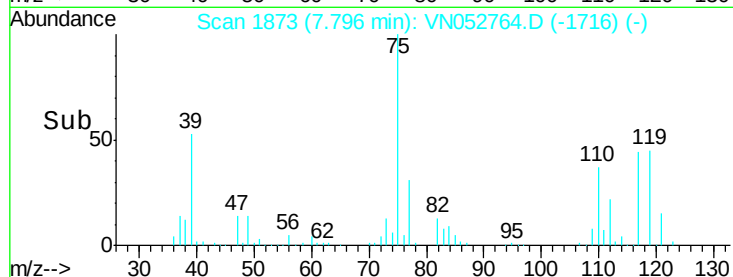
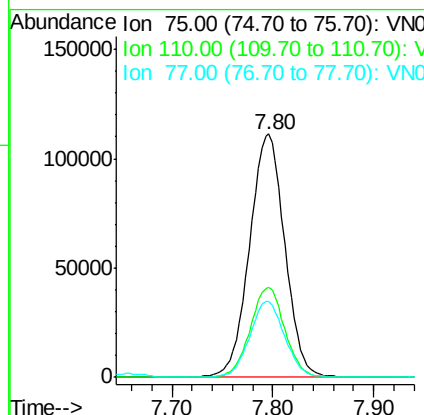
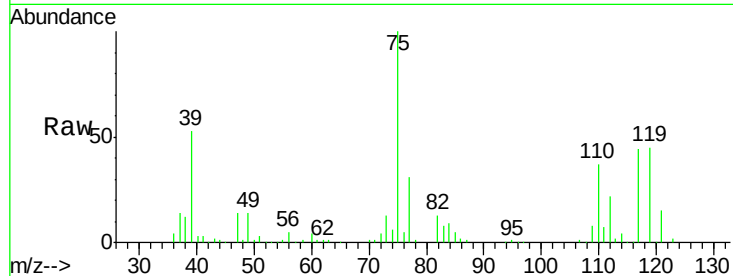
#29
 1,1-Dichloropropene
 Concen: 18.950 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	36.2	0.0	70.2
77	31.2	0.0	62.6

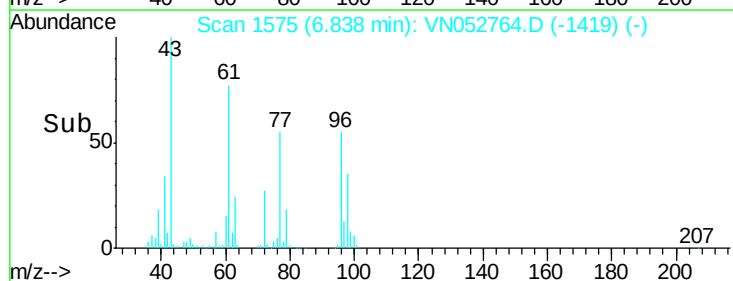
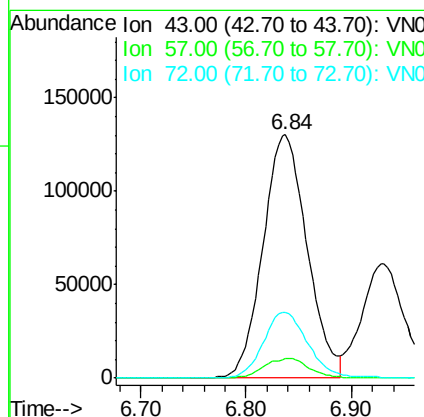
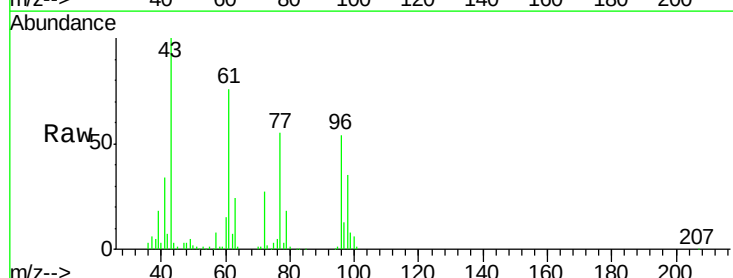
Manual Integrations
 APPROVED

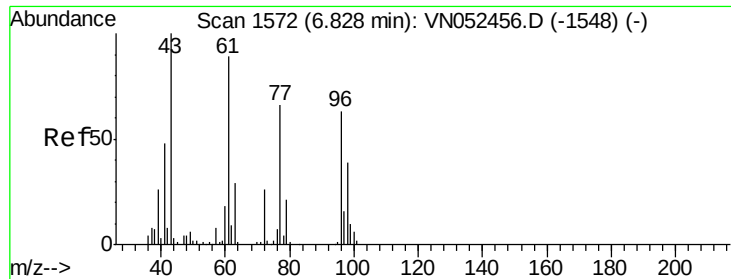
MMDadoda
 12/11/2018 12:46:00 PM



#30
 2-Butanone
 Concen: 98.994 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.4	6.2	9.4
72	27.6	21.0	31.6





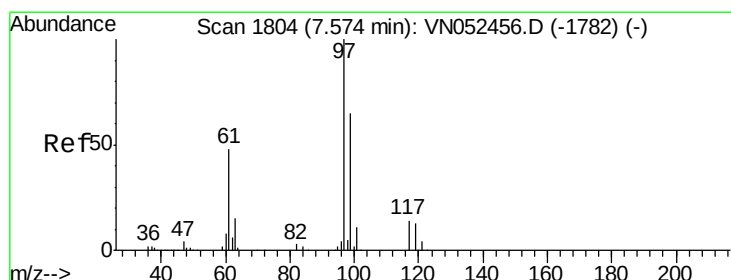
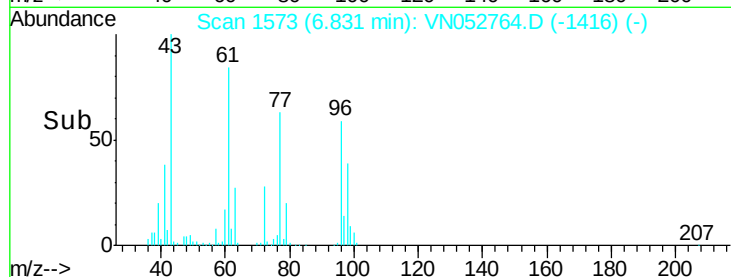
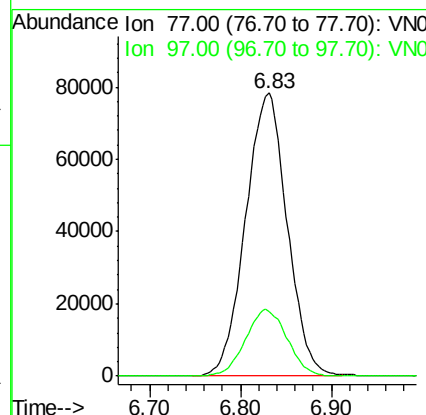
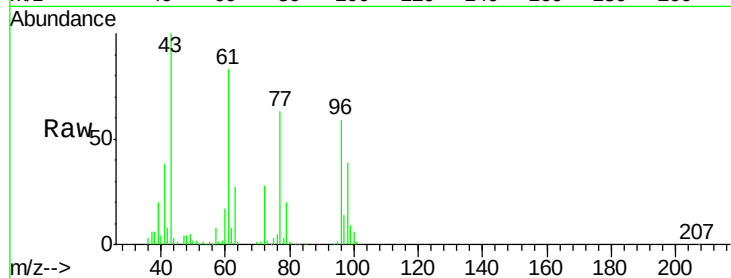
#31
 2,2-Dichloropropane
 Concen: 18.956 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
77	100		
97	23.7	18.7	28.1

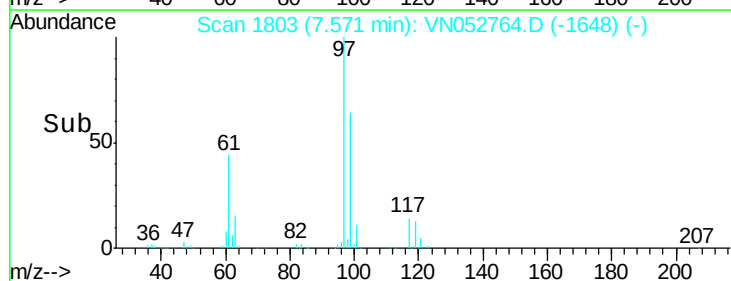
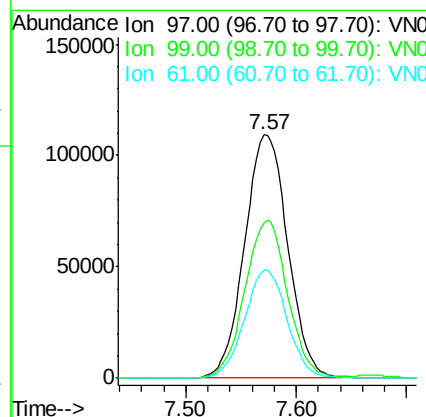
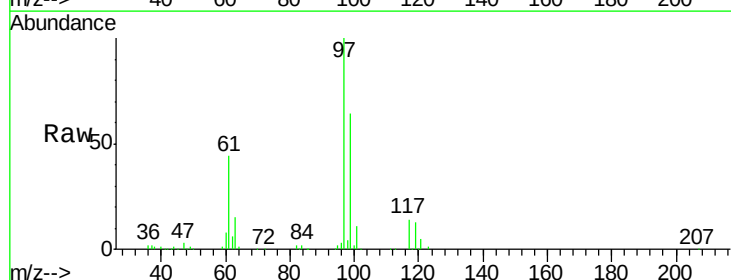
Manual Integrations
 APPROVED

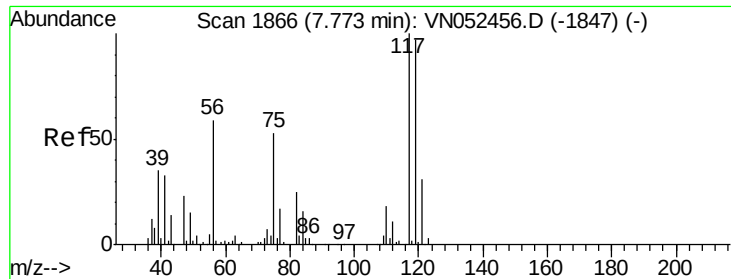
MMDadoda
 12/11/2018 12:46:00 PM



#32
 1,1,1-Trichloroethane
 Concen: 20.009 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.9	76.3
61	43.9	38.1	57.1





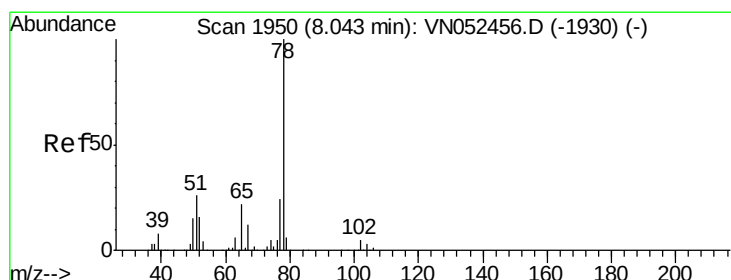
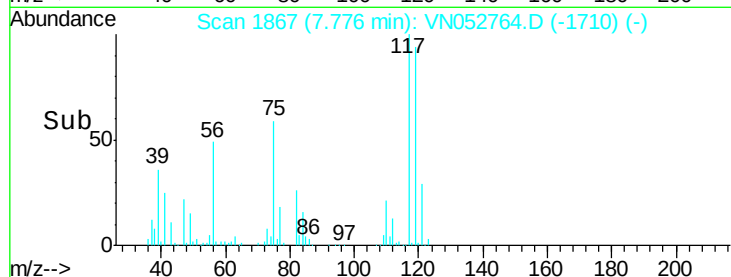
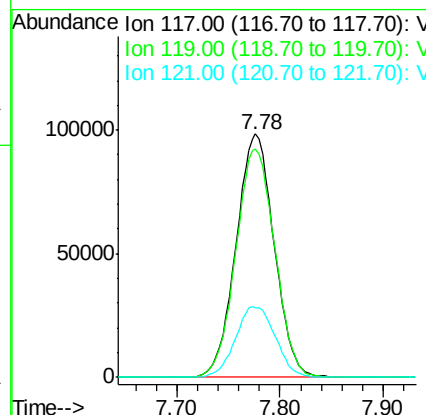
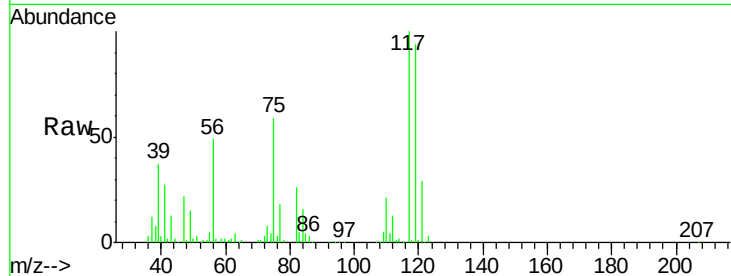
#33
Carbon Tetrachloride
Concen: 19.509 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.5	77.3	115.9
121	28.8	24.9	37.3

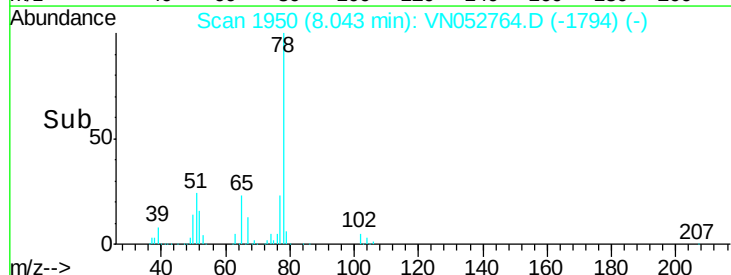
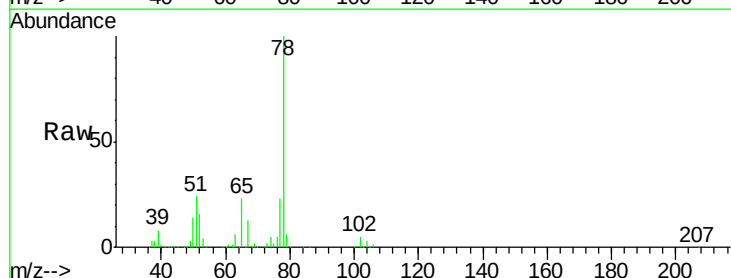
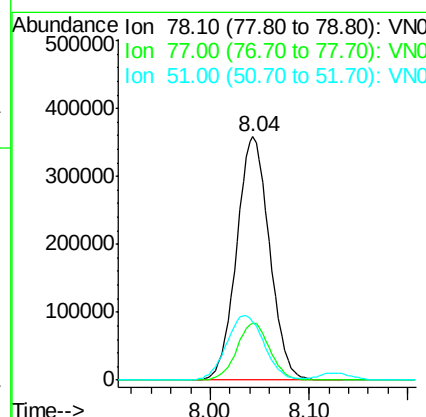
Manual Integrations
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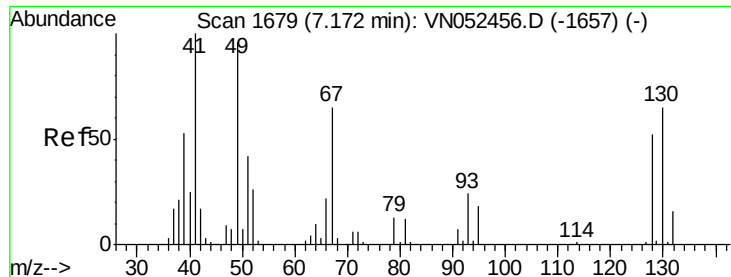
MMDadoda
12/11/2018 12:46:00 PM



#34
Benzene
Concen: 19.435 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.6
51	23.6	20.5	30.7





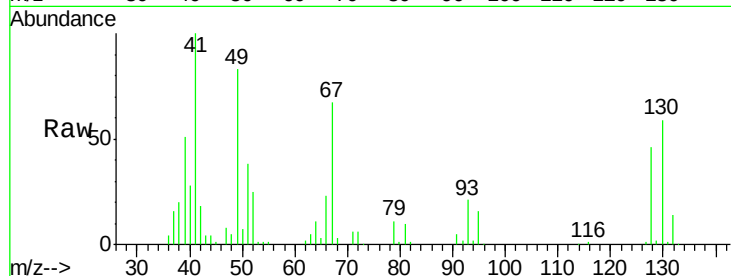
#35
Methacrylonitrile
Concen: 20.408 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

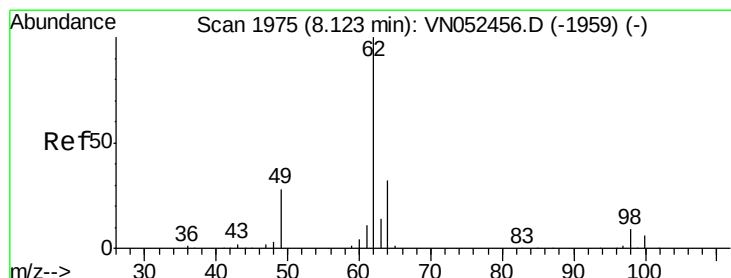
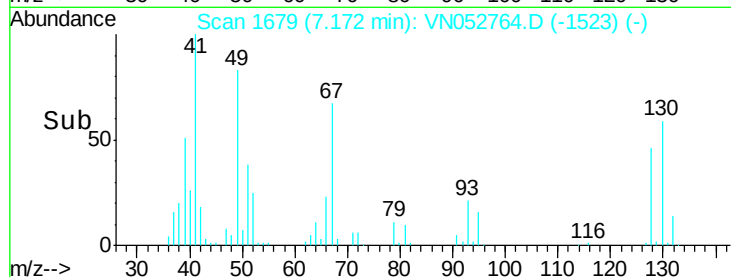
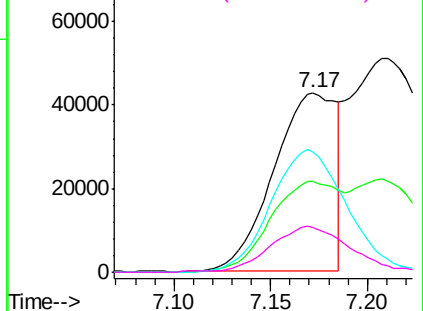
Tot Ion:	41	Resp:	96349
Ion	Ratio	Lower	Upper
41	100		
39	50.8	26.6	79.7
67	67.6	32.3	96.9
52	24.6	13.0	38.9

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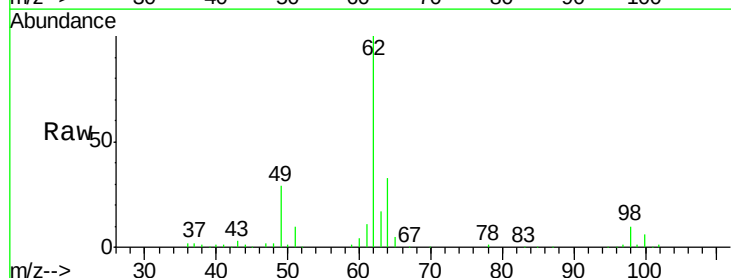


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

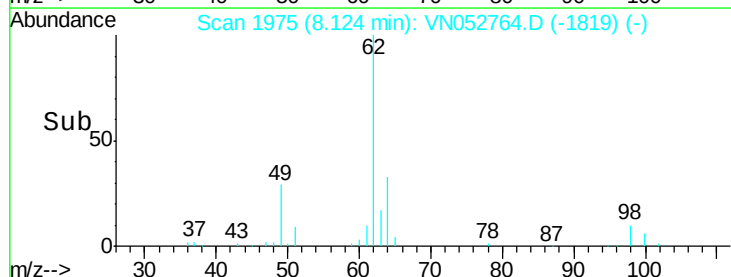
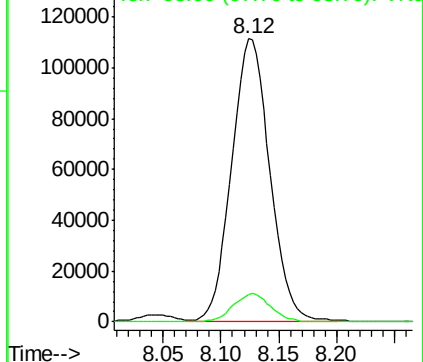


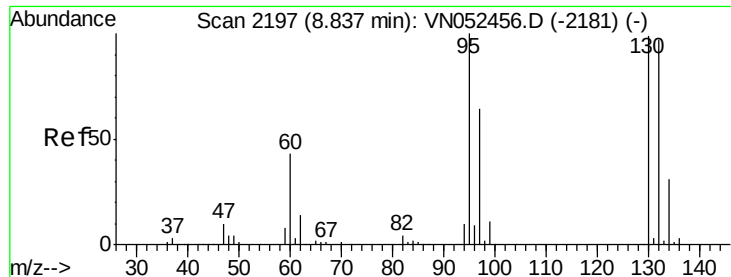
#36
1,2-Dichloroethane
Concen: 19.630 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion:	62	Resp:	254335
Ion	Ratio	Lower	Upper
62	100		
98	9.9	7.4	11.2



Abundance Ion 62.00 (61.70 to 62.70): VNC
Ion 98.00 (97.70 to 98.70): VNC





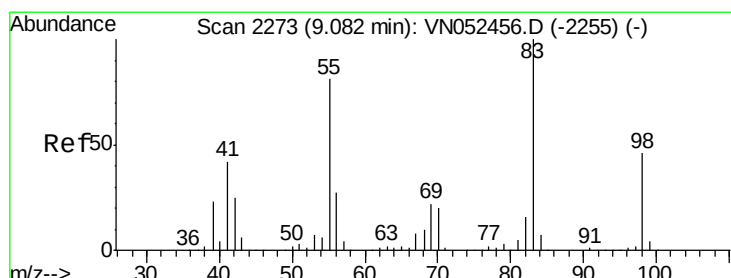
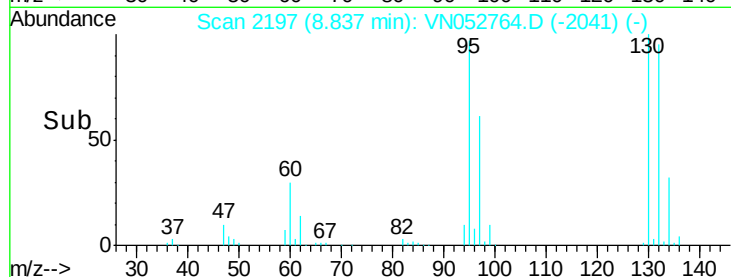
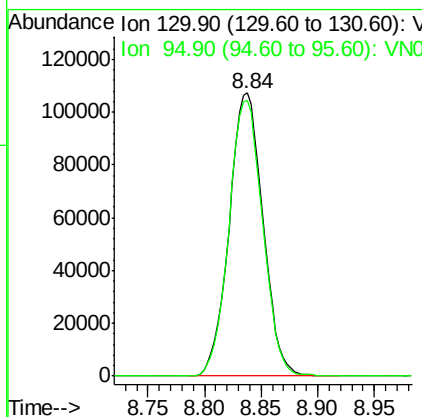
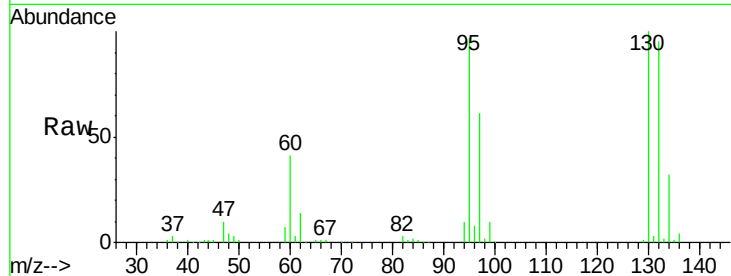
#37
 Trichloroethene
 Concen: 20.568 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion:130 Resp: 222992
 Ion Ratio Lower Upper
 130 100
 95 97.2 81.0 121.4

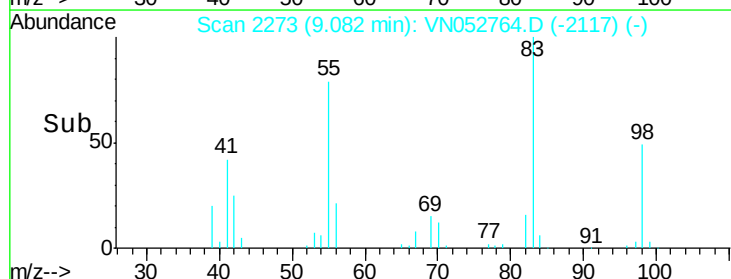
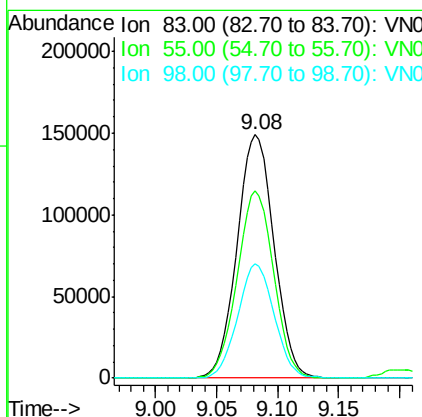
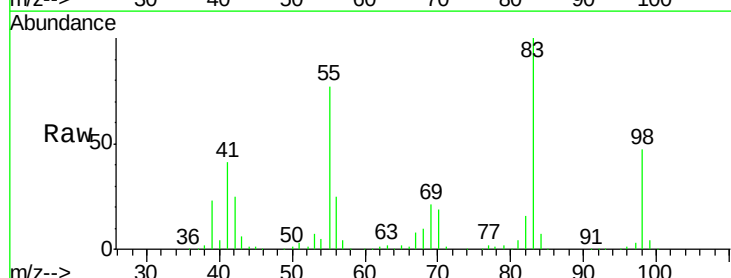
Manual Integrations
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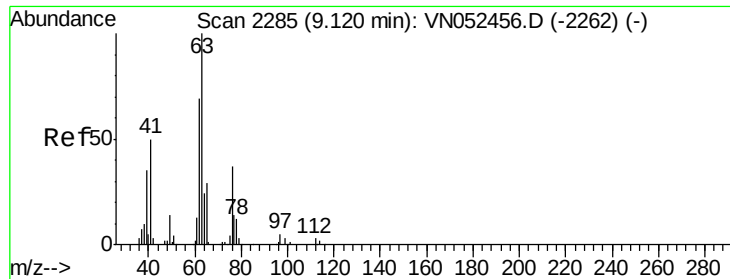
MMDadoda
 12/11/2018 12:46:00 PM



#38
 Methylcyclohexane
 Concen: 17.755 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion: 83 Resp: 312562
 Ion Ratio Lower Upper
 83 100
 55 75.9 39.8 119.4
 98 46.3 22.9 68.5





#39

1,2-Dichloropropane

Concen: 19.293 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 63 Resp: 221111

Ion Ratio Lower Upper

63 100

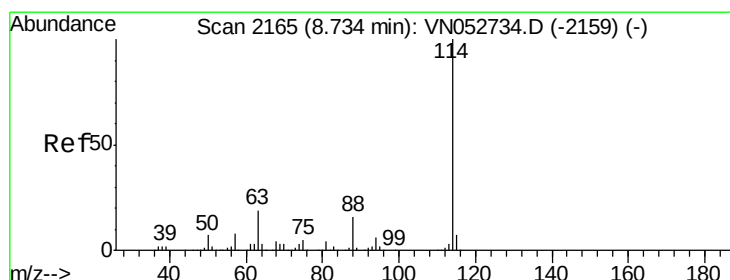
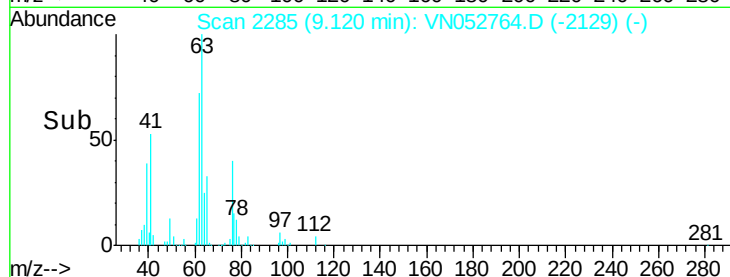
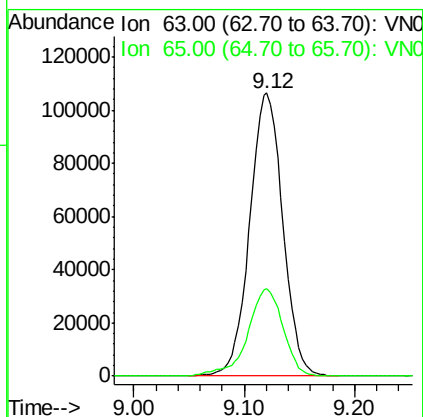
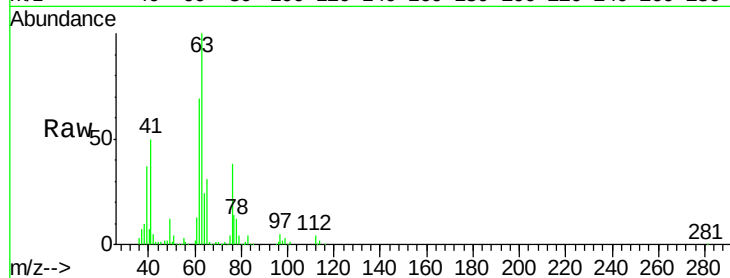
65 30.8 23.6 35.4

Manual Integrations

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12/11/2018 12:46:00 PM



#40

Dibromomethane

Concen: 20.483 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

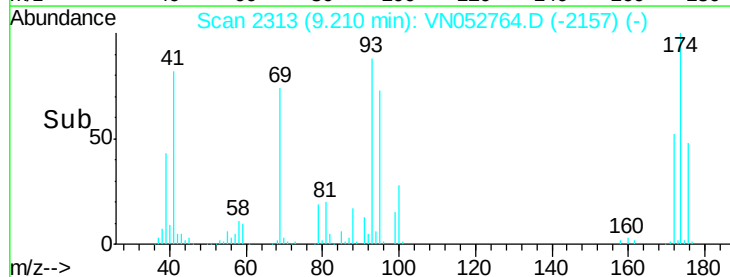
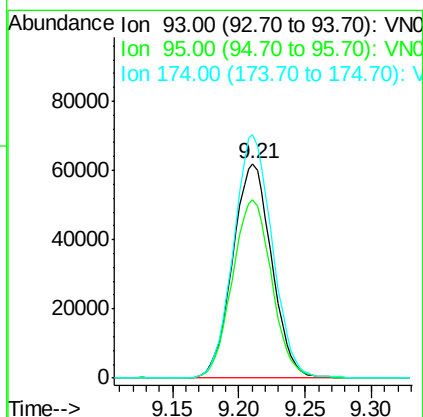
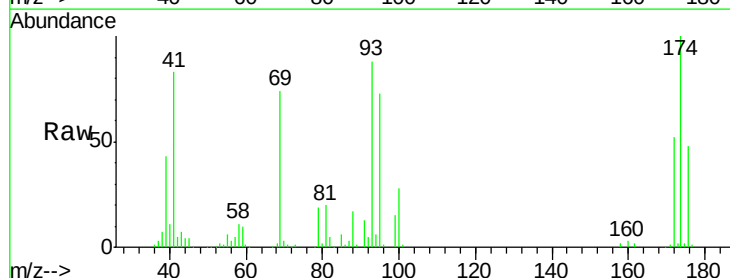
Tgt Ion: 93 Resp: 126859

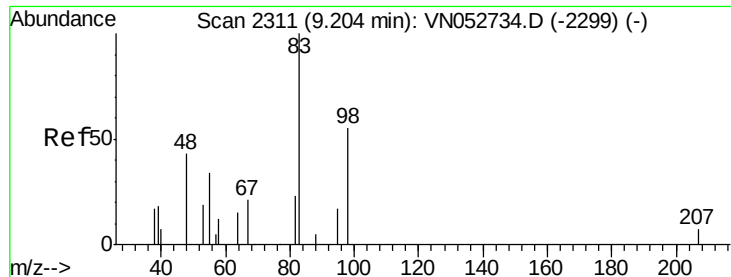
Ion Ratio Lower Upper

93 100

95 83.9 0.0 168.4

174 112.5 0.0 210.0





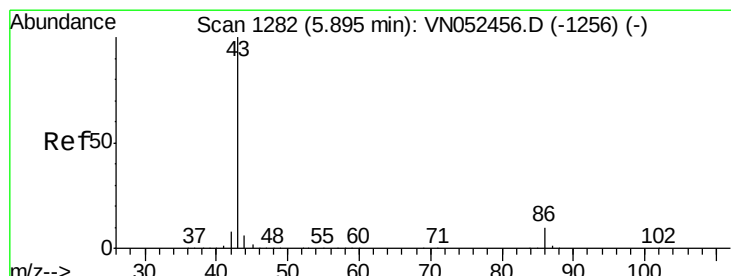
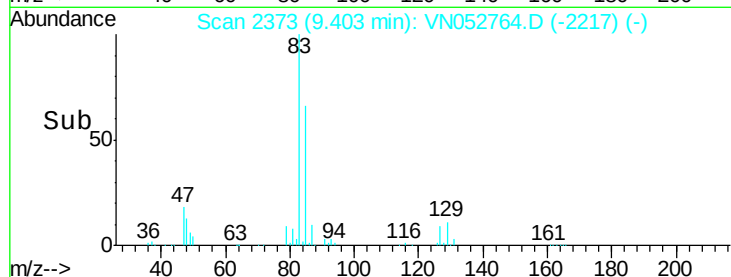
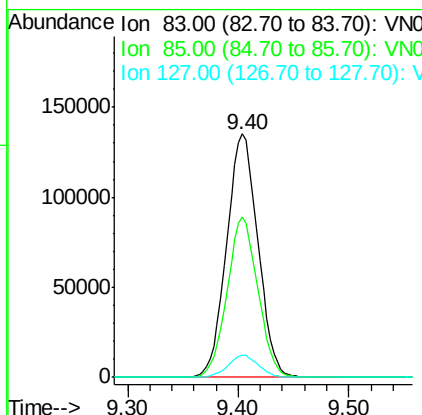
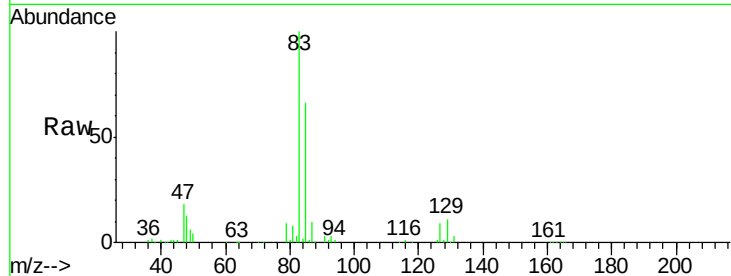
#41
 Bromodichloromethane
 Concen: 19.448 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	83	Resp	266119
Ion Ratio	100	Lower	Upper
83	100		
85	65.8	52.4	78.6
127	9.1	6.6	9.8

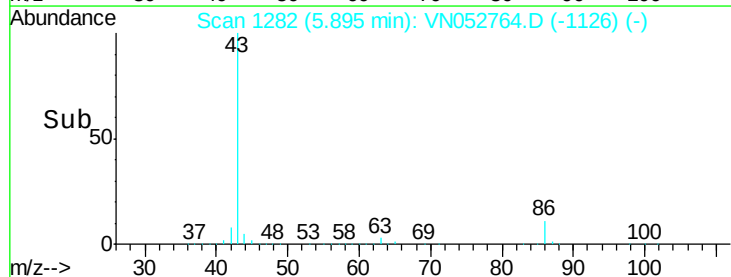
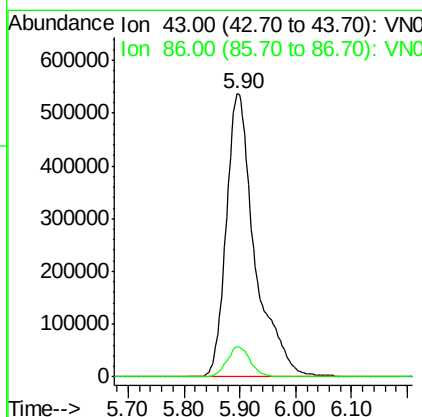
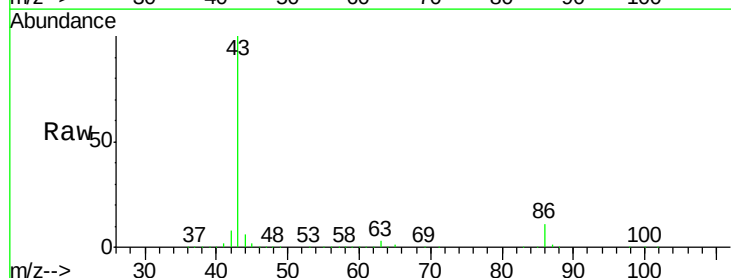
Manual Integrations
 APPROVED

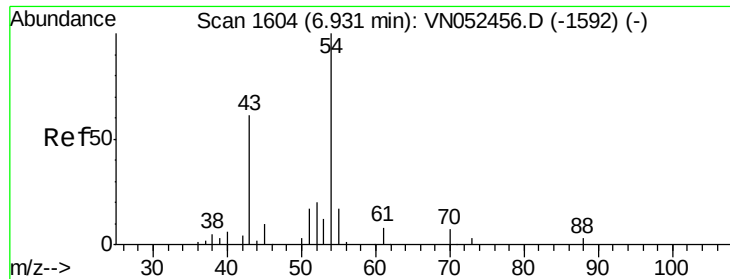
MMDadoda
 12/11/2018 12:46:00 PM



#42
 Vinyl Acetate
 Concen: 93.010 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	43	Resp	1914984
Ion Ratio	100	Lower	Upper
43	100		
86	8.8	6.5	9.7





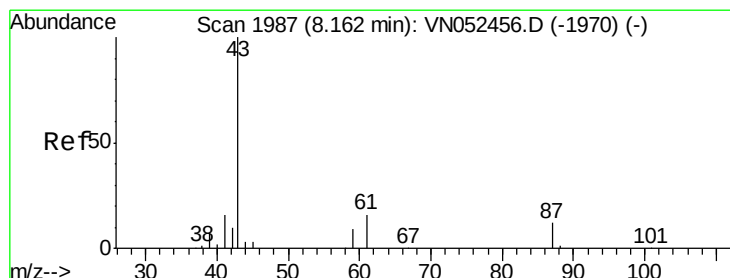
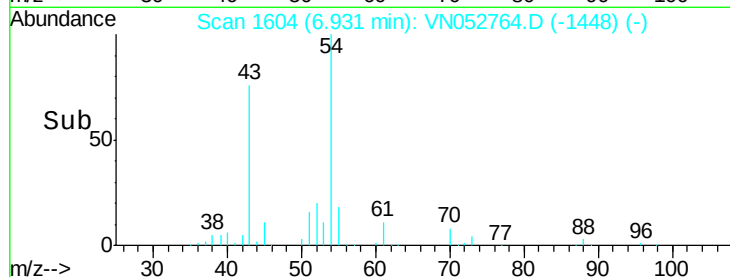
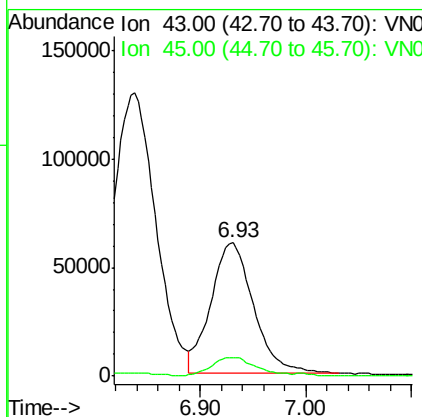
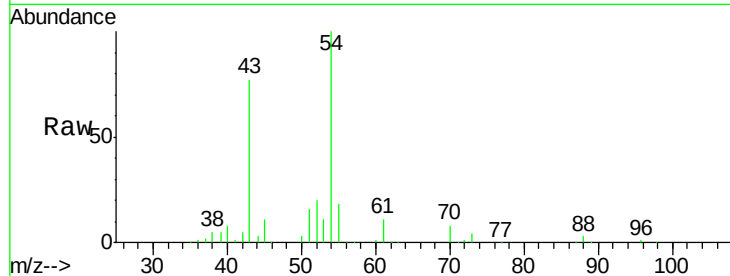
#43
Ethyl Acetate
Concen: 20.973 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 43 Resp: 169700
Ion Ratio Lower Upper
43 100
45 13.7 1.0 1.6#

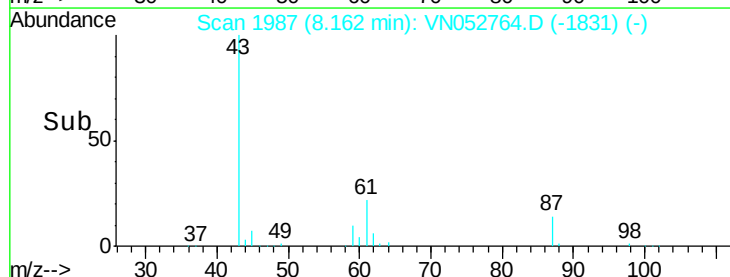
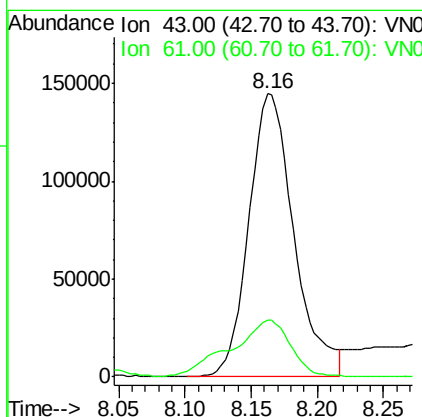
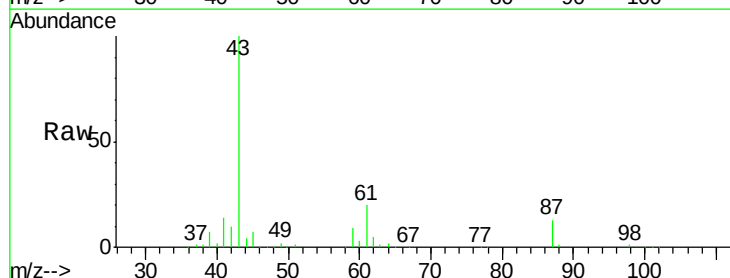
Manual Integrations
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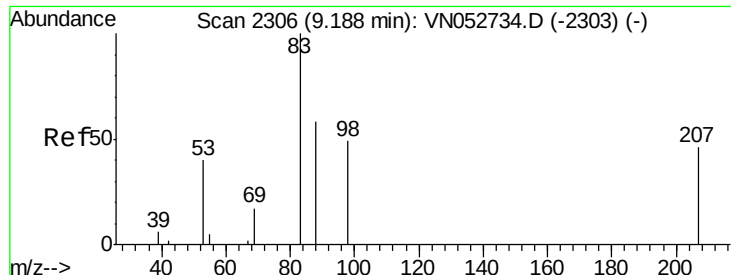
MMDadoda
12/11/2018 12:46:00 PM



#44
Isopropyl Acetate
Concen: 24.273 ug/l m
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion: 43 Resp: 344454
Ion Ratio Lower Upper
43 100
61 0.0 16.0 24.0#





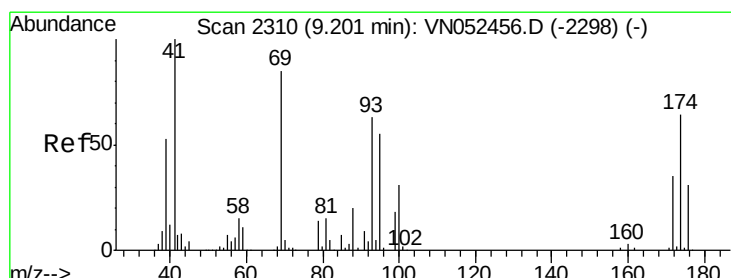
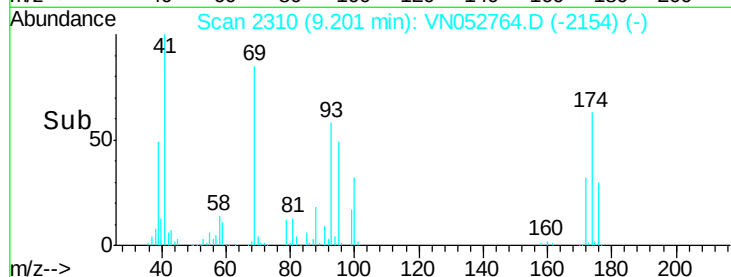
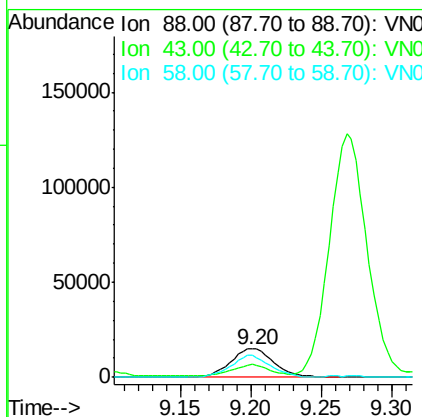
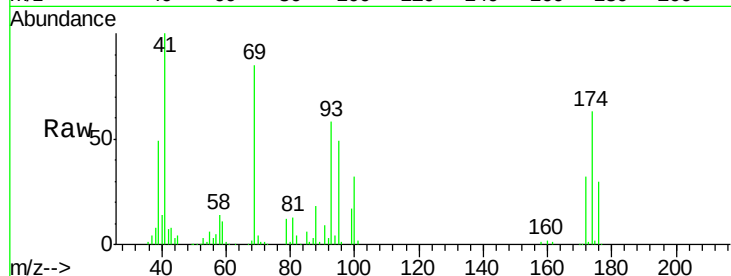
#45
1,4-Dioxane
Concen: 413.829 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	88	Resp	32127
Ion	Ratio	Lower	Upper
88	100		
43	33.2	29.5	44.3
58	71.1	61.5	92.3

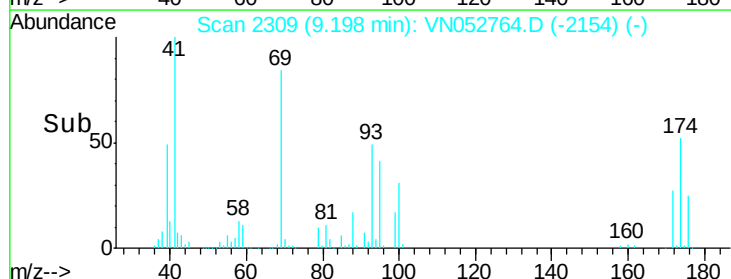
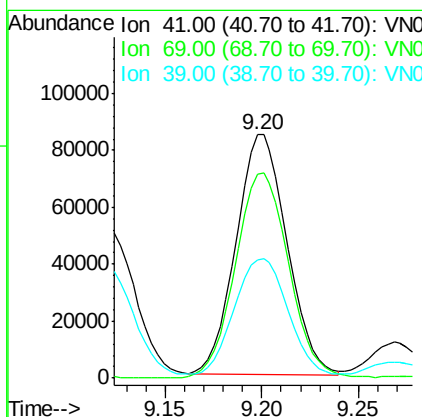
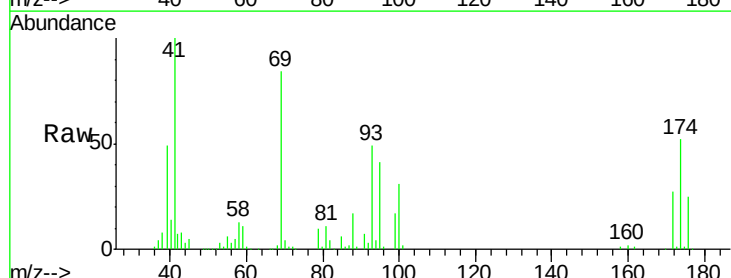
Manual Integrations
APPROVED

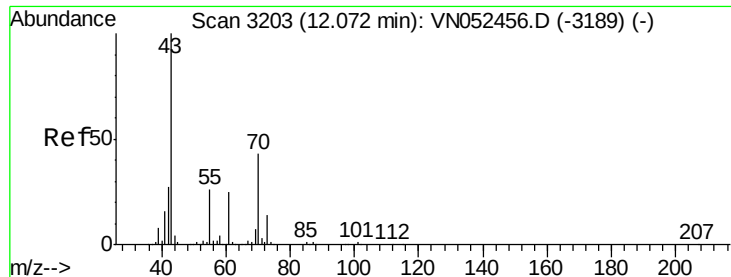
MMDadoda
12/11/2018 12:46:00 PM



#46
Methyl methacrylate
Concen: 20.892 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	41	Resp	153938
Ion	Ratio	Lower	Upper
41	100		
69	84.9	42.5	127.6
39	48.2	26.3	78.9





#47

n-amvl Acetate

Concen: 22.230 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 261566

Ion Ratio Lower Upper

43 100

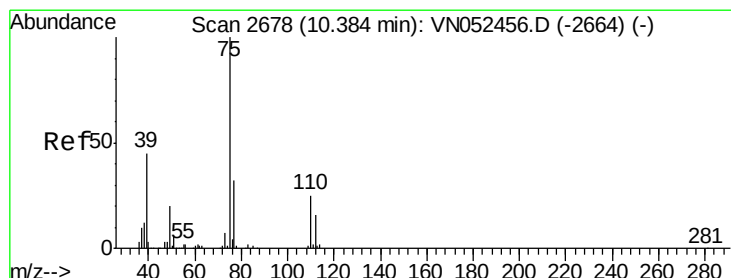
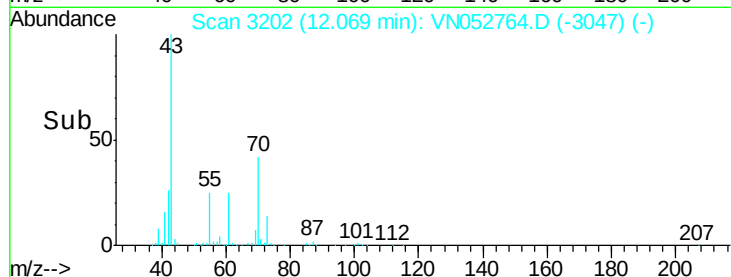
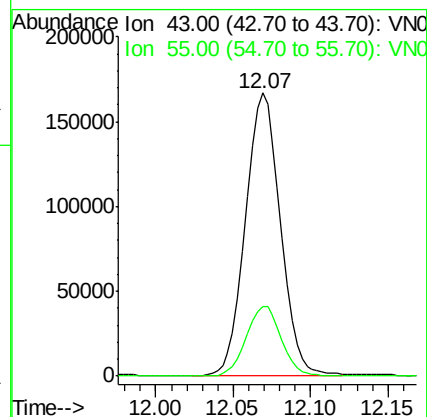
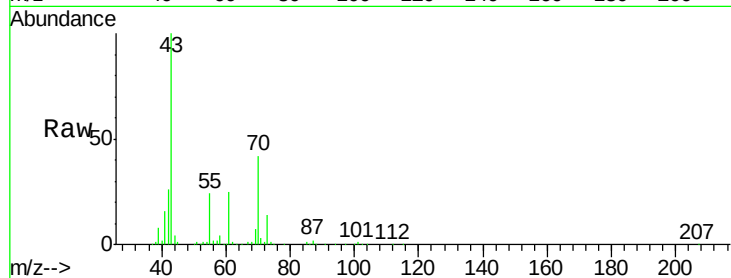
55 25.0 21.1 31.7

Manual Integrations

APPROVED

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12/11/2018 12:46:00 PM



#48

t-1,3-Dichloropropene

Concen: 19.530 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN052764.D

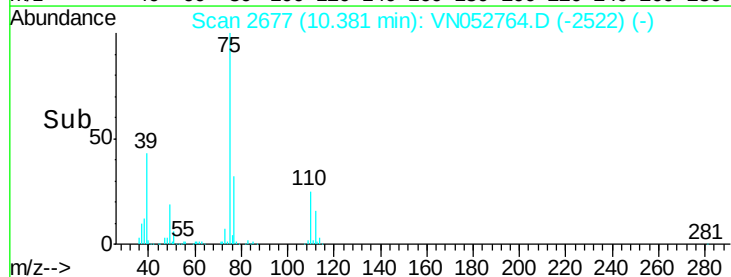
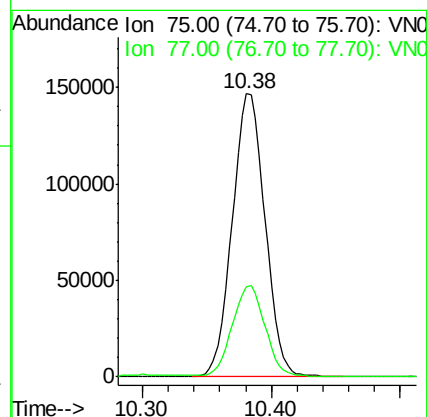
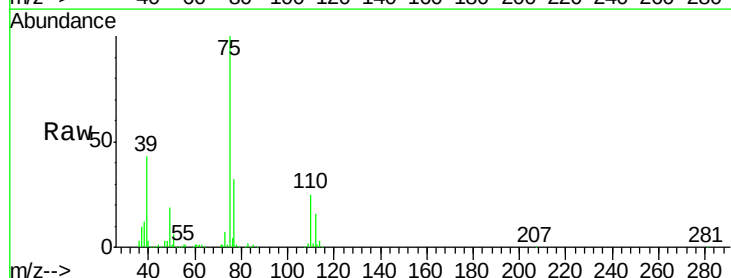
Acq: 10 Dec 2018 20:04

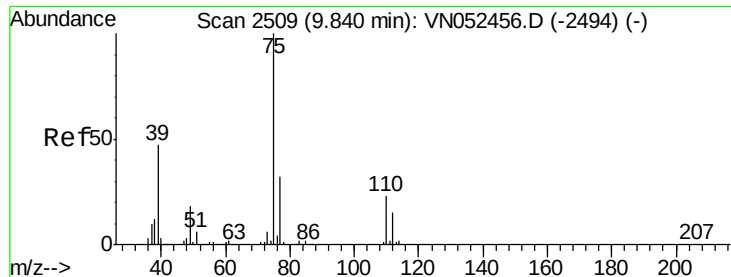
Tgt Ion: 75 Resp: 259120

Ion Ratio Lower Upper

75 100

77 31.7 25.6 38.4





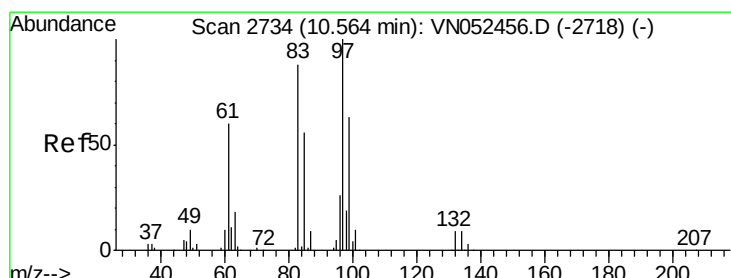
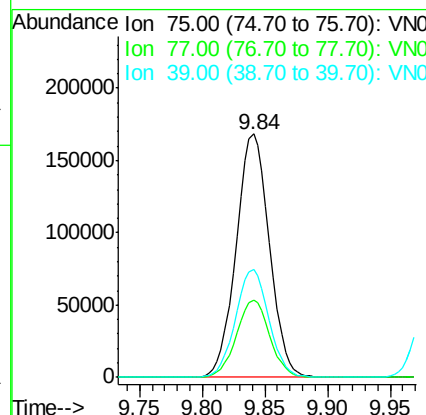
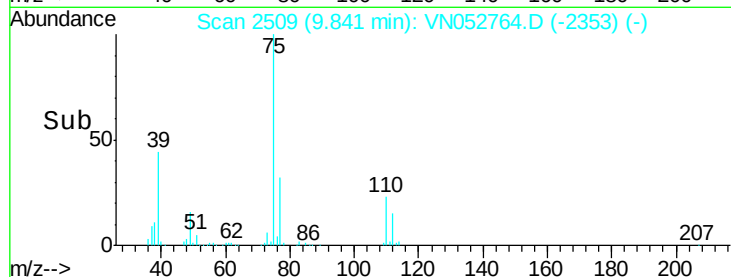
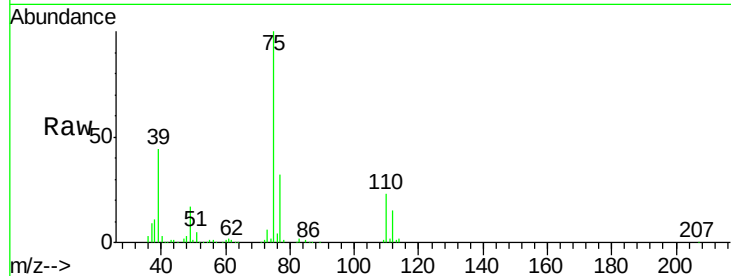
#49
 cis-1,3-Dichloropropene
 Concen: 19.192 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.4	38.0
39	44.0	37.3	55.9

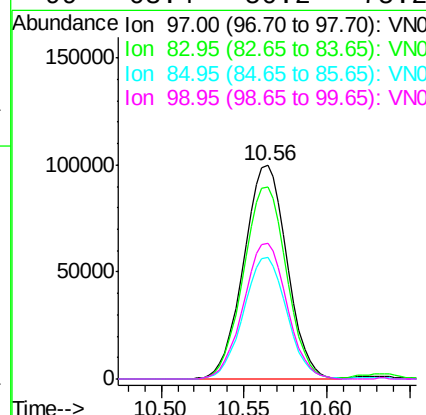
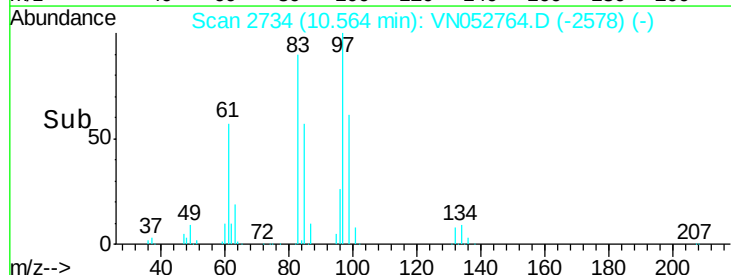
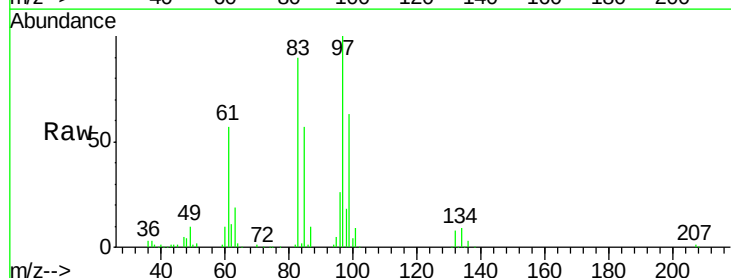
Manual Integrations
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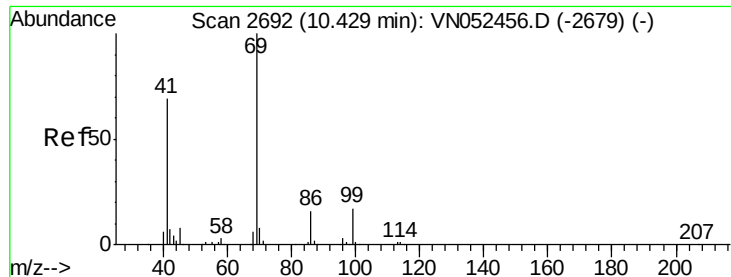
MMDadoda
 12/11/2018 12:46:00 PM



#50
 1,1,2-Trichloroethane
 Concen: 20.759 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
97	100		
83	90.1	70.4	105.6
85	56.8	45.0	67.6
99	63.4	50.2	75.2





#51

Ethyl methacrylate

Concen: 21.692 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

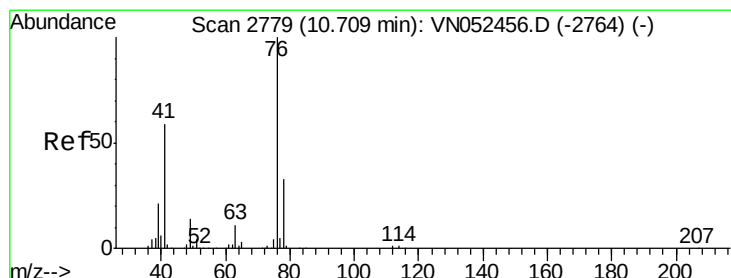
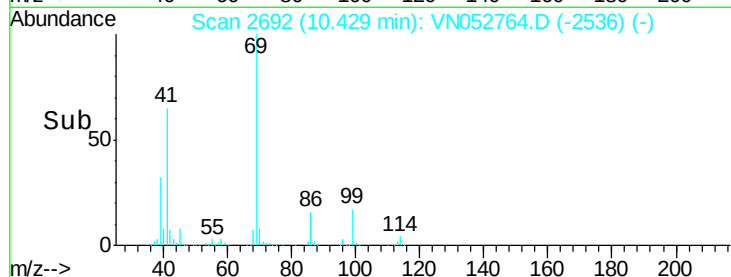
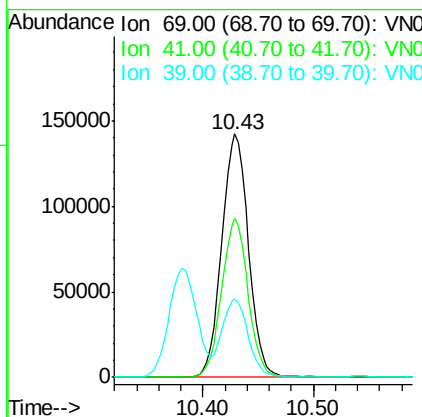
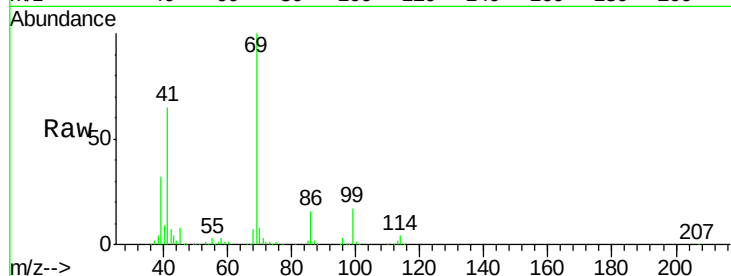
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	239180
Ion	Ratio	Lower	Upper
69	100		
41	64.8	34.4	103.3
39	31.7	16.4	49.2

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 20.197 ug/l

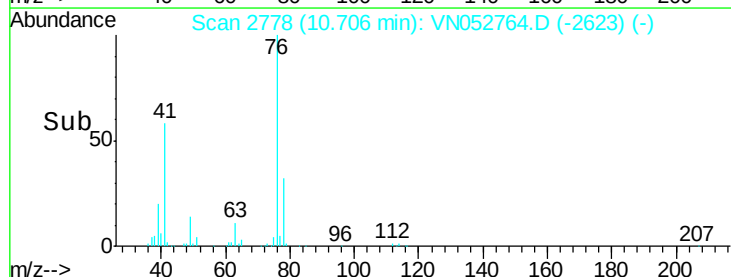
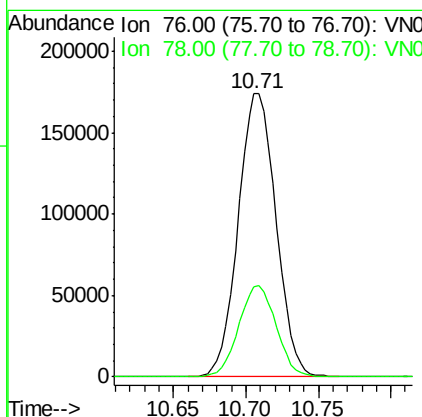
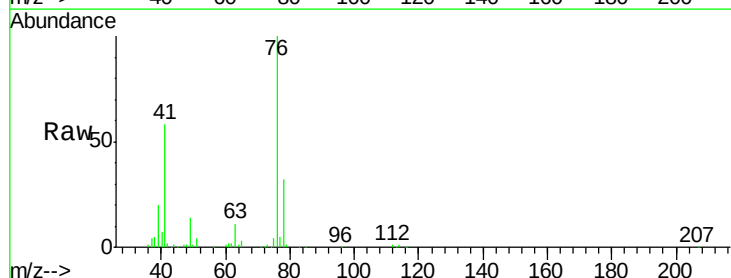
RT: 10.71 min Scan# 2778

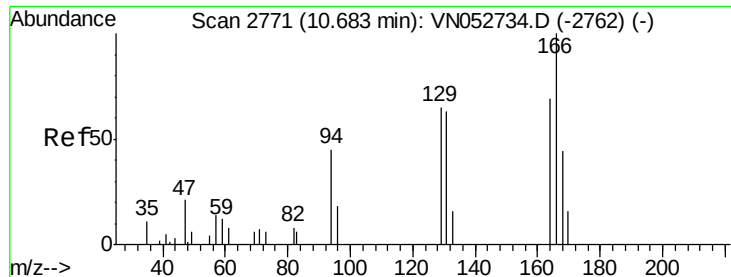
Delta R.T. -0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Tgt Ion:	76	Resp:	315615
Ion	Ratio	Lower	Upper
76	100		
78	31.7	0.0	64.8





#53

Dibromochloromethane

Concen: 20.307 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:129 Resp: 196280

Ion Ratio Lower Upper

129 100

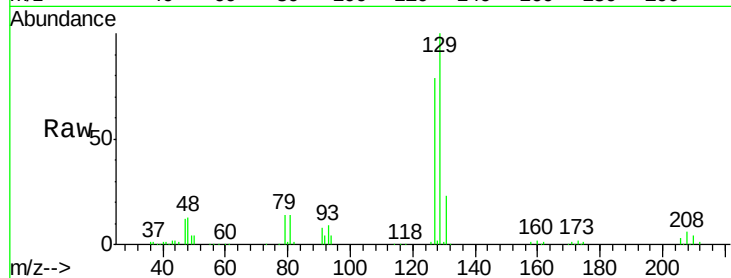
127 78.2 37.6 112.8

Manual Integrations

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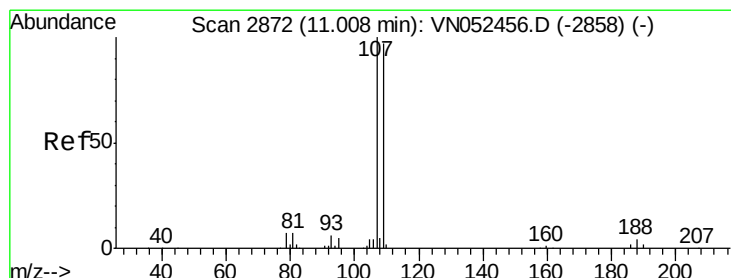
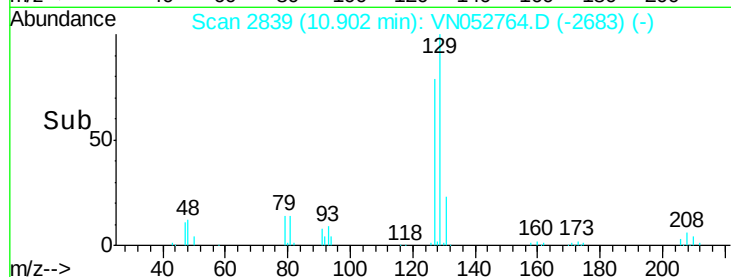
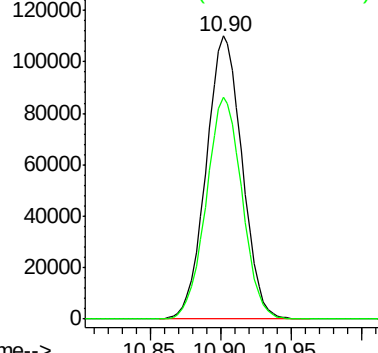
MMDadoda

12/11/2018 12:46:00 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 20.808 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN052764.D

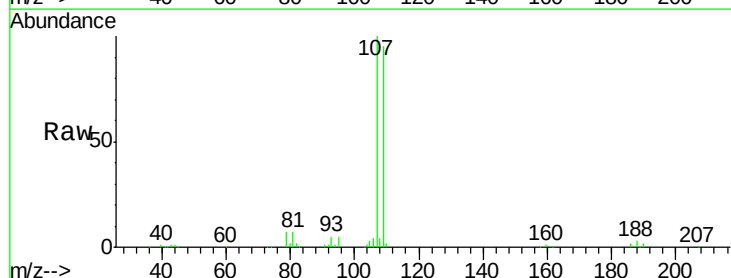
Acq: 10 Dec 2018 20:04

Tgt Ion:107 Resp: 178510

Ion Ratio Lower Upper

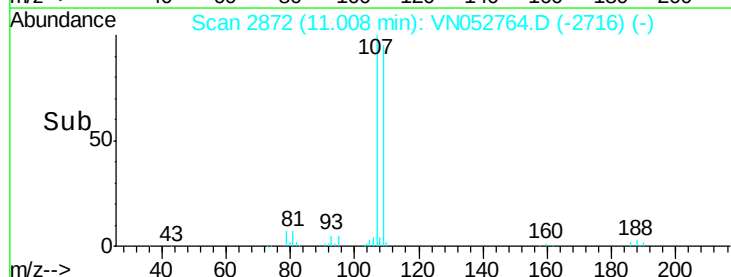
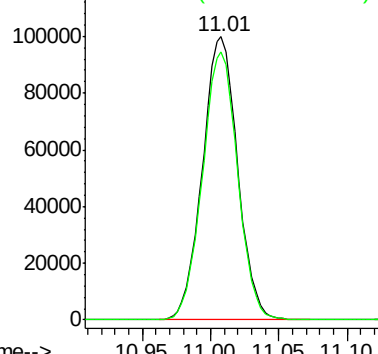
107 100

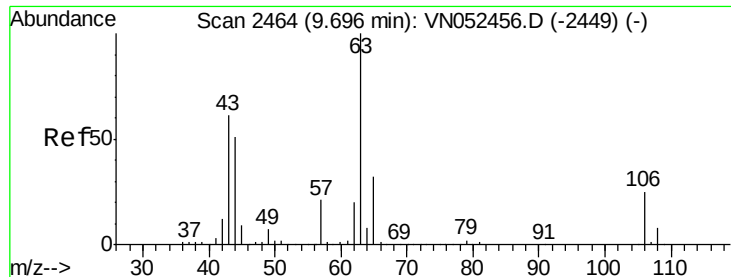
109 94.5 77.1 115.7



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





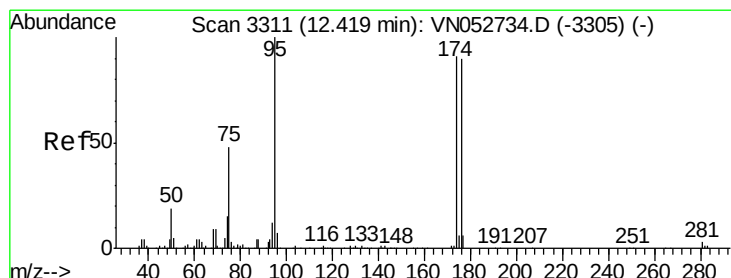
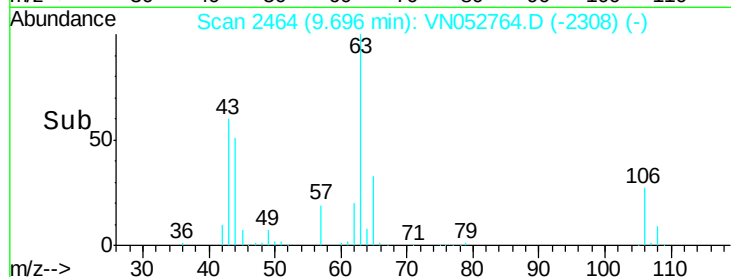
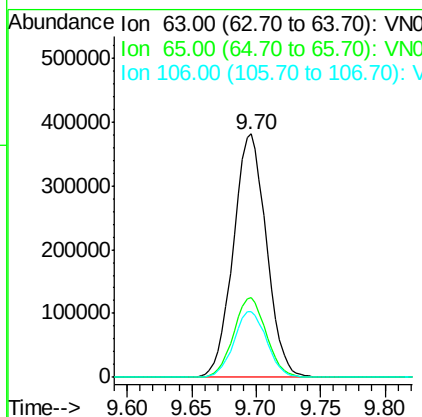
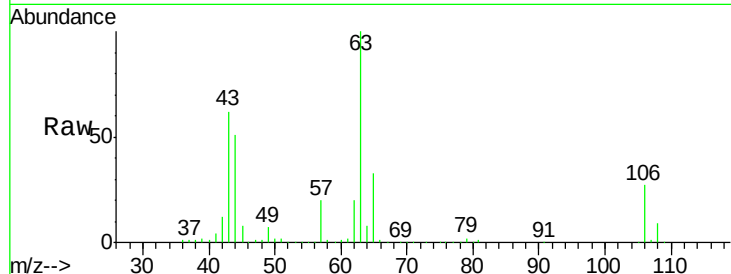
#55
2-Chloroethyl vinyl ether
Concen: 105.233 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.4	25.4	38.2
106	26.9	20.4	30.6

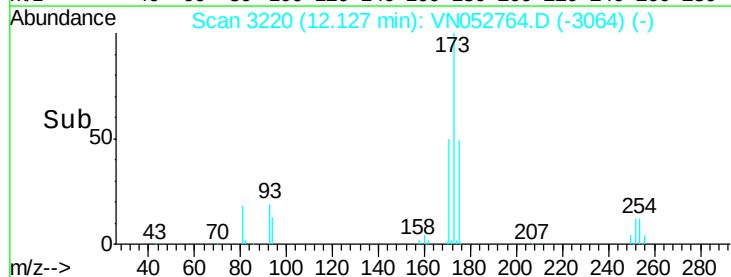
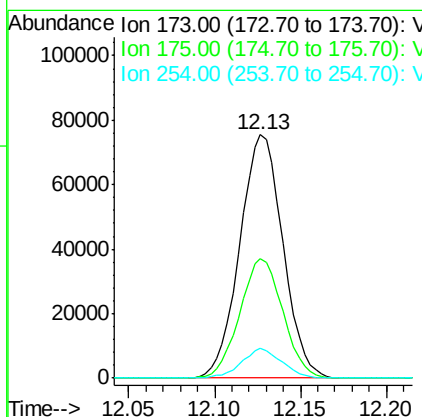
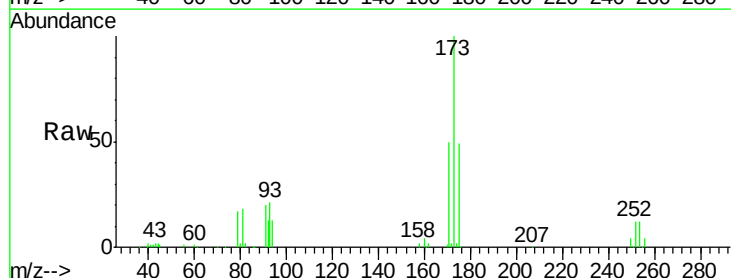
Manual Integrations
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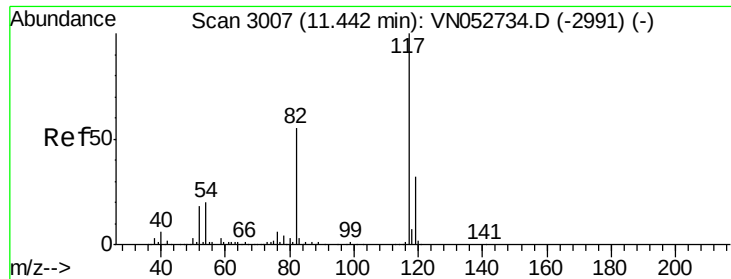
MMDadoda
12/11/2018 12:46:00 PM



#56
Bromoform
Concen: 20.766 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.0	38.7	58.1
254	11.3	8.4	12.6





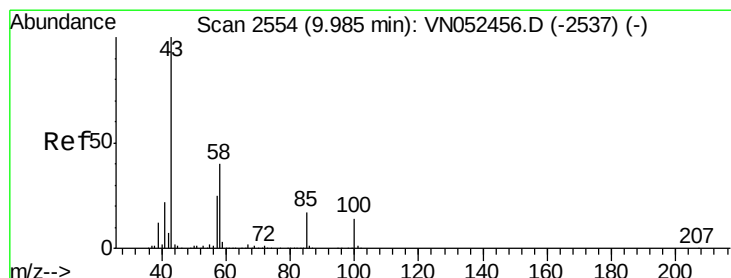
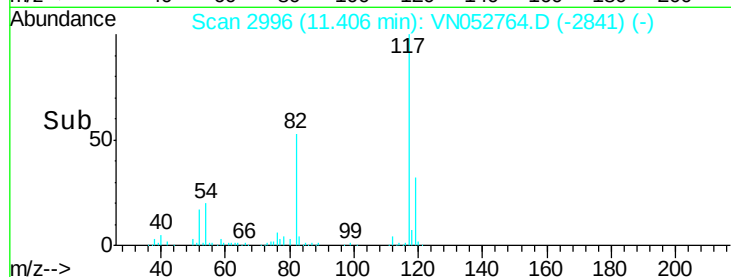
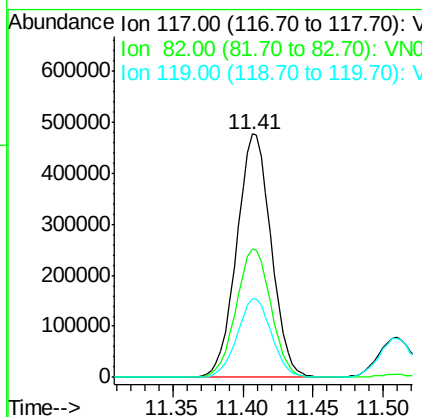
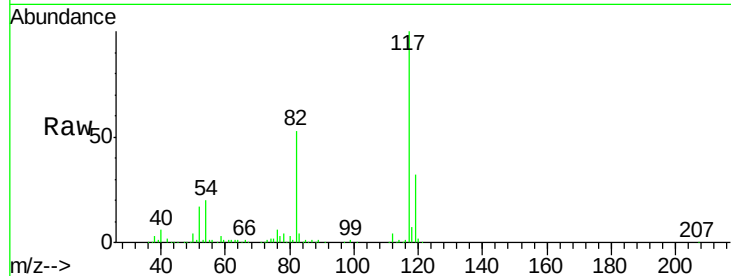
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	44.2	66.2
119	32.2	25.4	38.2

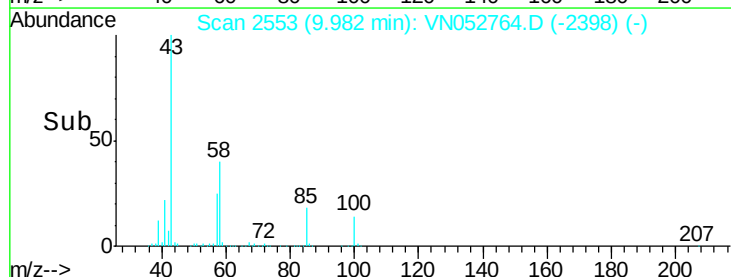
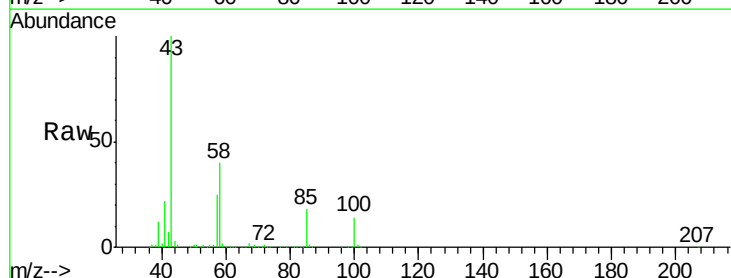
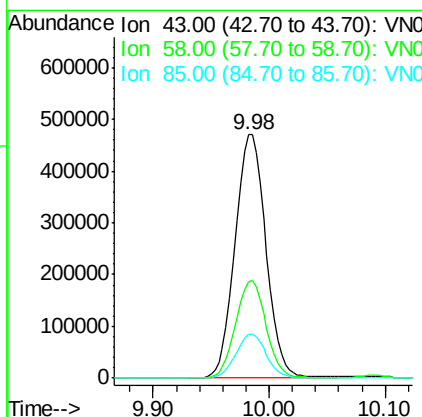
Manual Integrations
APPROVED

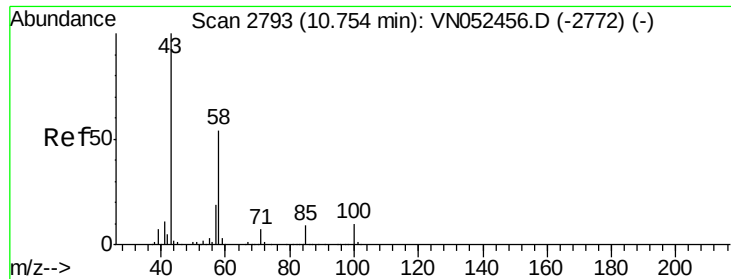
MMDadoda
12/11/2018 12:46:00 PM



#58
4-Methyl-2-Pentanone
Concen: 109.396 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.7	31.6	47.4
85	17.9	13.3	19.9





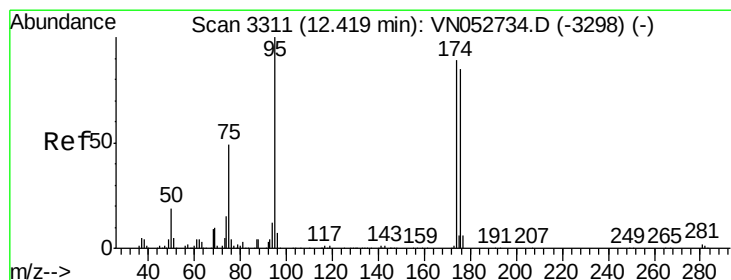
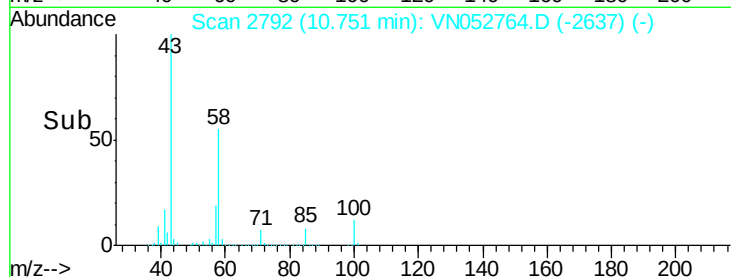
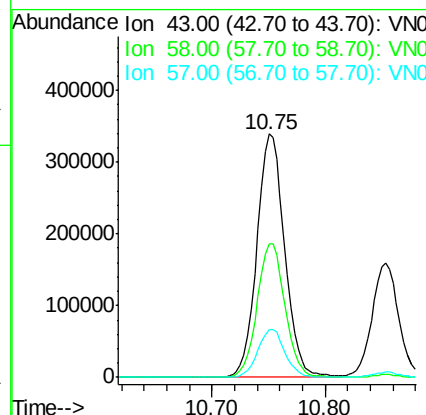
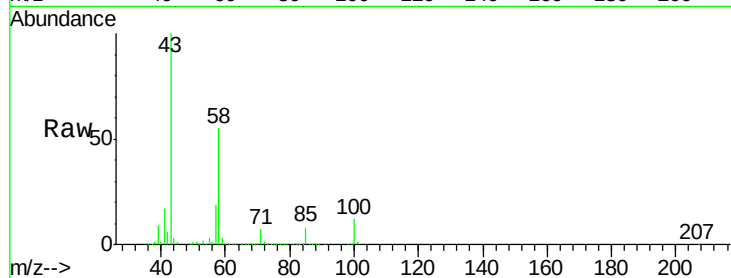
#59
2-Hexanone
Concen: 106.465 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.6	43.2	64.8
57	19.6	14.9	22.3

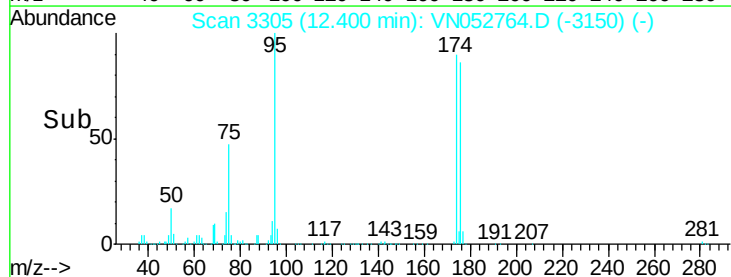
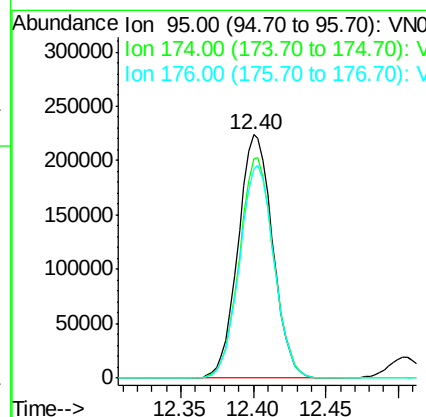
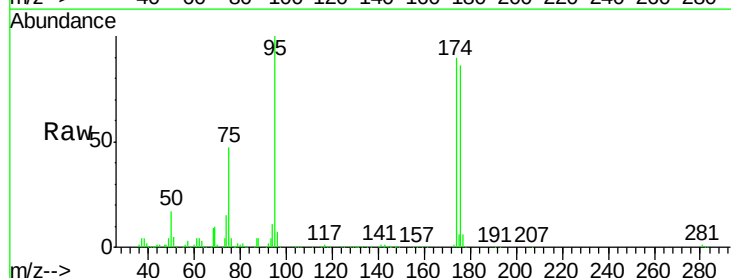
Manual Integrations
APPROVED

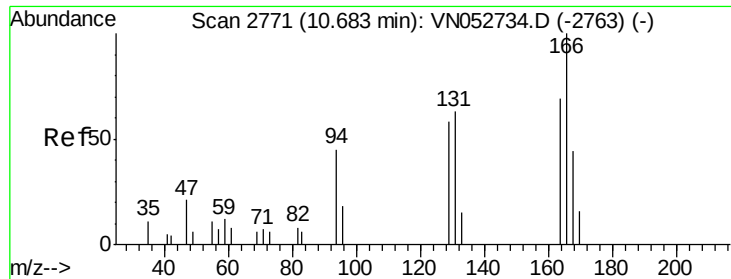
MMDadoda
12/11/2018 12:46:00 PM



#60
4-Bromofluorobenzene
Concen: 106.465 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.8	67.9	101.9
176	87.0	66.4	99.6





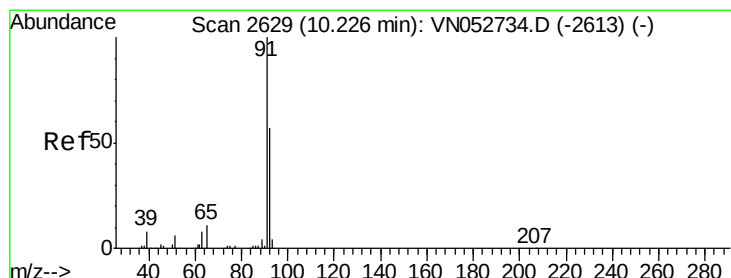
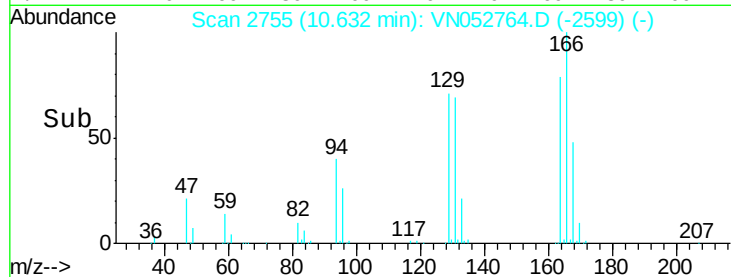
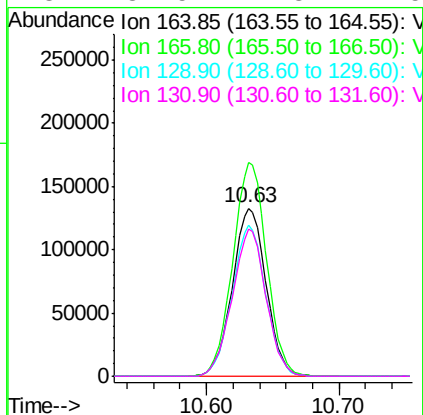
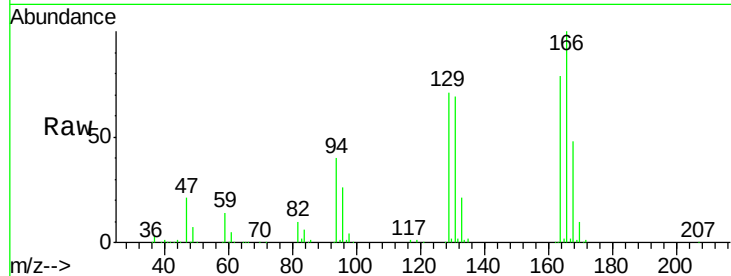
#61
Tetrachloroethene
Concen: 23.279 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
164	100		
166	127.4	104.6	157.0
129	90.1	75.3	112.9
131	87.5	74.3	111.5

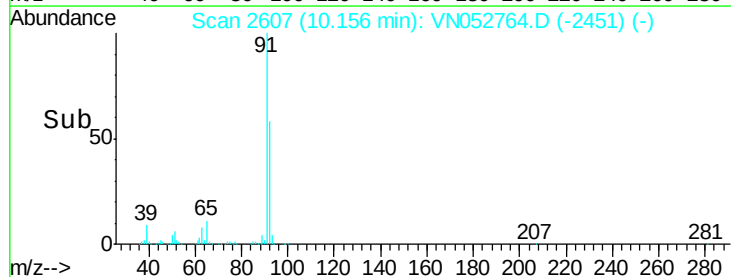
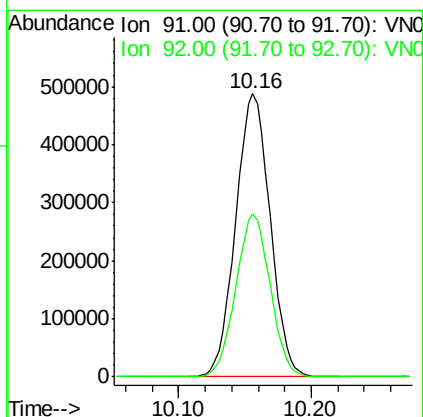
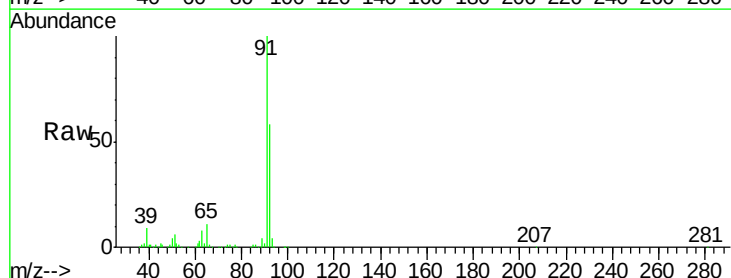
Manual Integrations
APPROVED

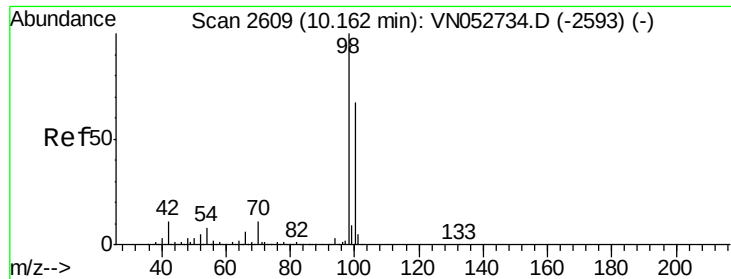
MMDadoda
12/11/2018 12:46:00 PM



#62
Toluene
Concen: 19.617 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.1	45.4	68.2





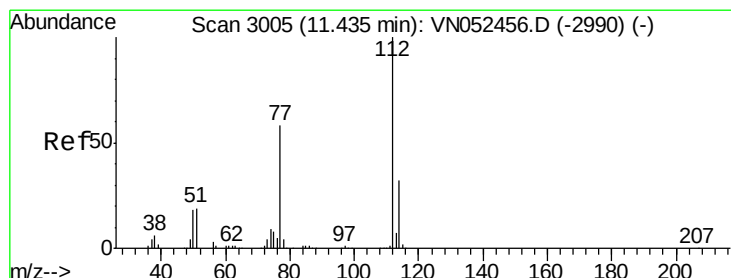
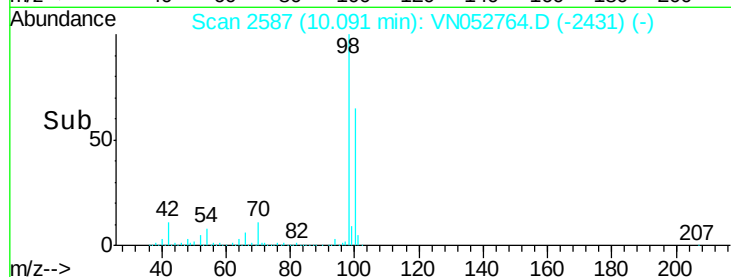
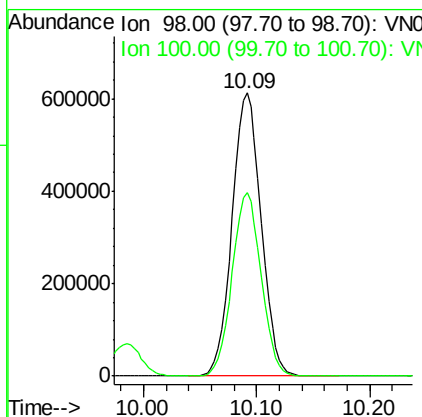
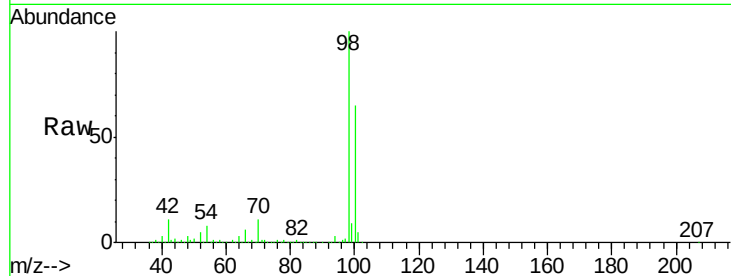
#63
Toluene-d8
Concen: 19.617 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 98 Resp: 1096574
Ion Ratio Lower Upper
98 100
100 64.5 51.1 76.7

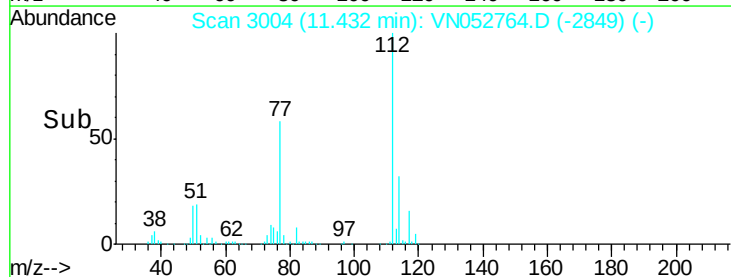
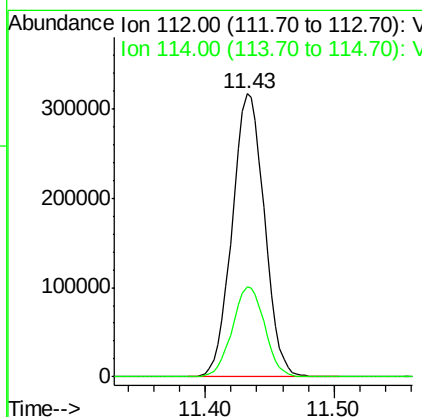
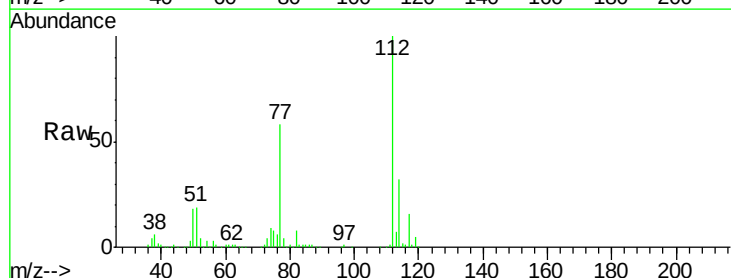
Manual Integrations
APPROVED

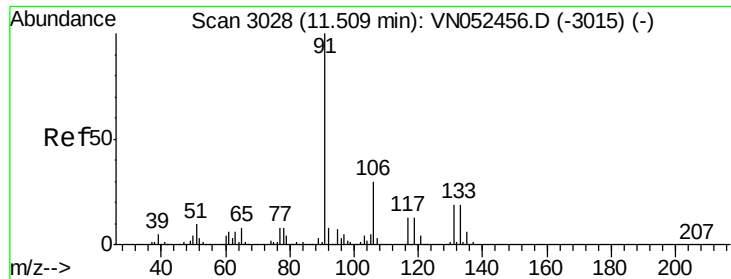
MMDadoda
12/11/2018 12:46:00 PM



#64
Chlorobenzene
Concen: 20.015 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion: 112 Resp: 549360
Ion Ratio Lower Upper
112 100
114 31.9 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 20.231 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

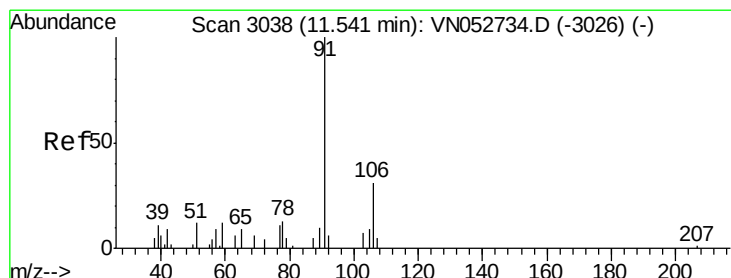
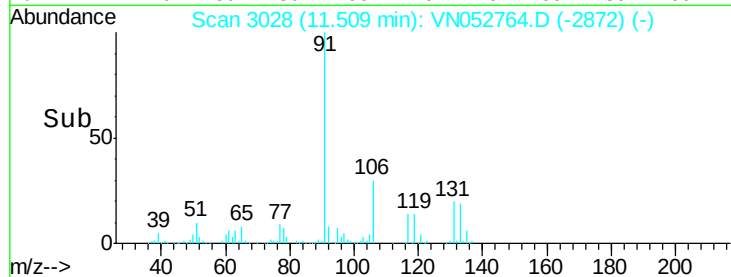
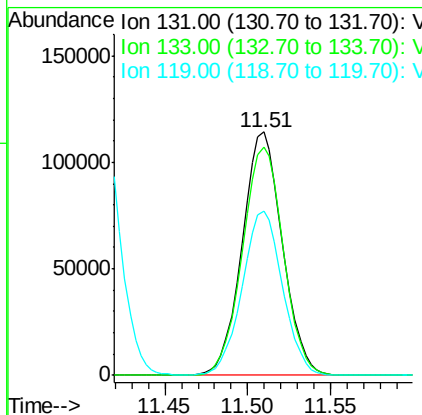
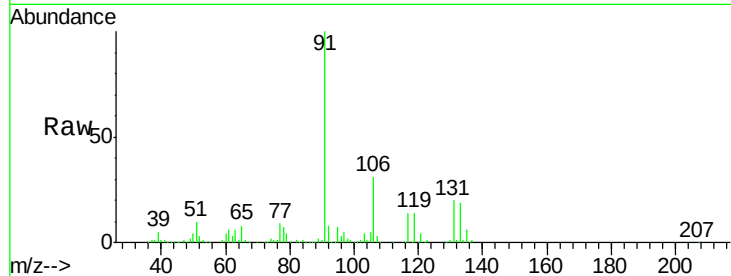
ClientSampleId :

VSTDCCC020EC

Tot Ion:	131	Resp:	192740
Ion Ratio	Lower	Upper	
131	100		
133	95.4	0.0	193.4
119	67.8	0.0	133.0

Manual Integrations
APPROVED

MMDadoda
12/11/2018 12:46:00 PM



#66

Ethyl Benzene

Concen: 19.435 ug/l

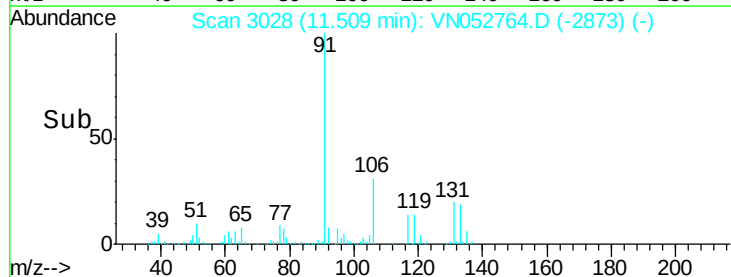
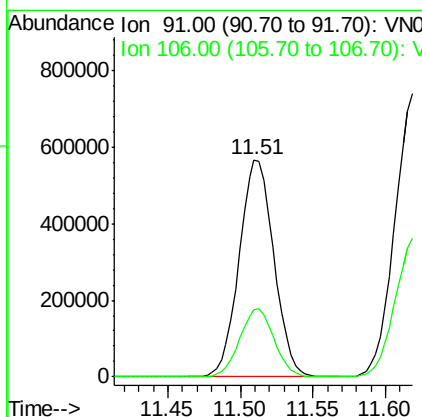
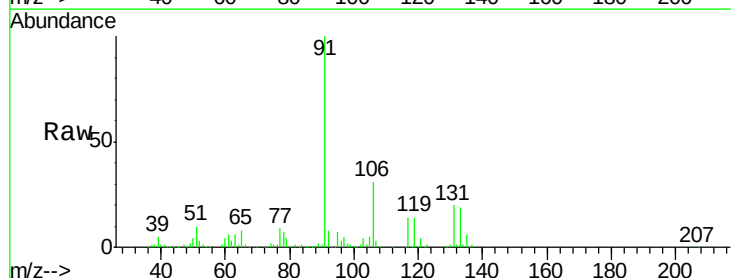
RT: 11.51 min Scan# 3028

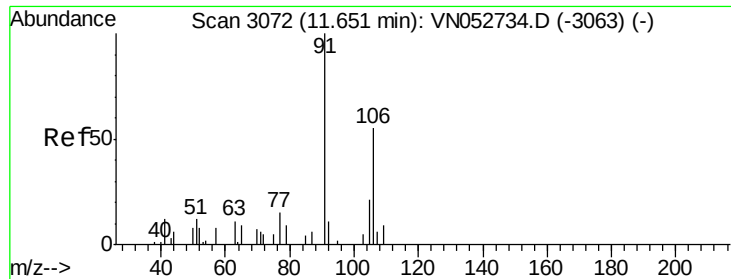
Delta R.T. -0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Tgt Ion:	91	Resp:	941905
Ion Ratio	Lower	Upper	
91	100		
106	31.1	24.3	36.5





#67

m/p-Xylenes

Concen: 39.681 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:106 Resp: 716467

Ion Ratio Lower Upper

106 100

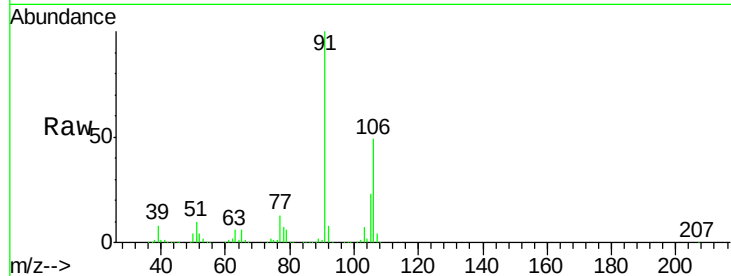
91 201.8 163.9 245.9

Manual Integrations

APPROVED

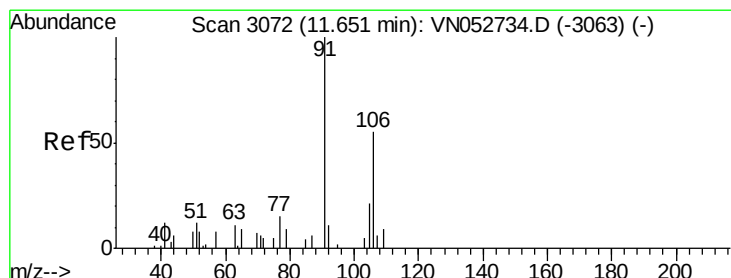
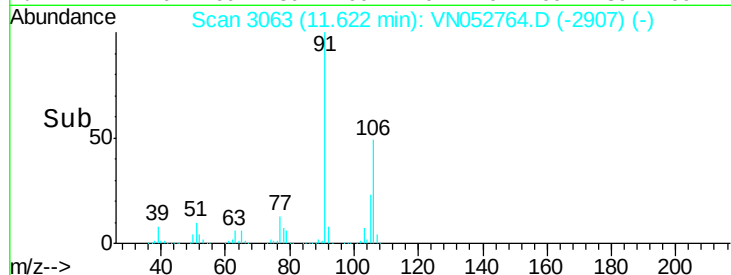
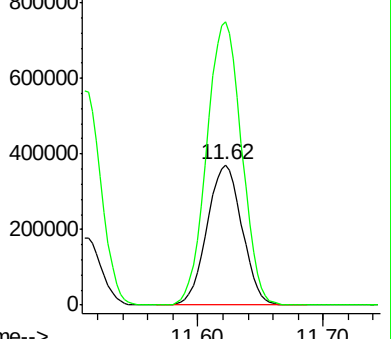
MMDadoda

12/11/2018 12:46:00 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 20.141 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN052764.D

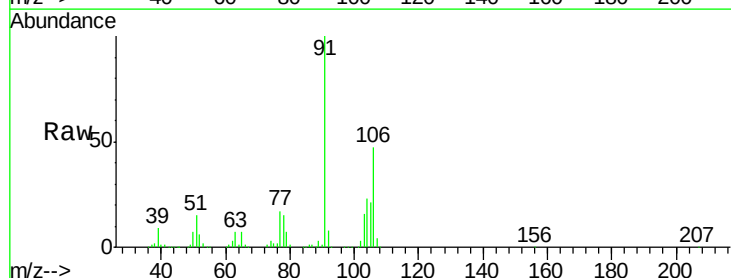
Acq: 10 Dec 2018 20:04

Tgt Ion:106 Resp: 352960

Ion Ratio Lower Upper

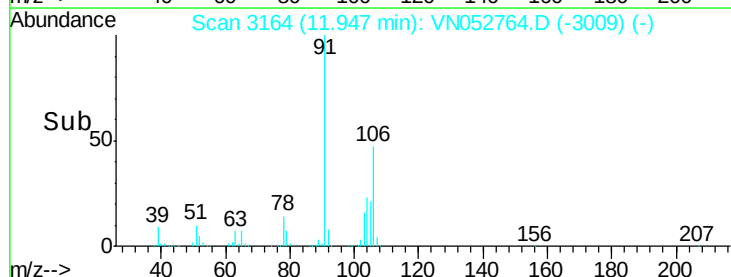
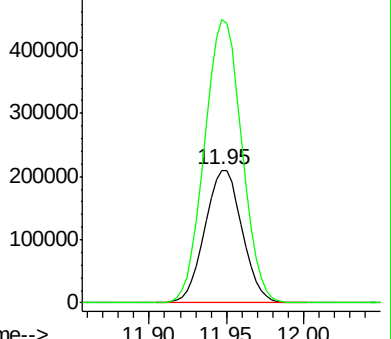
106 100

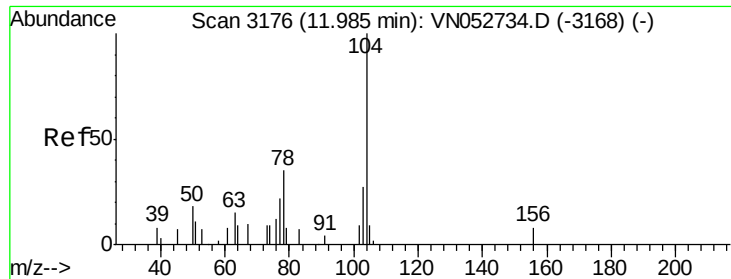
91 213.3 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





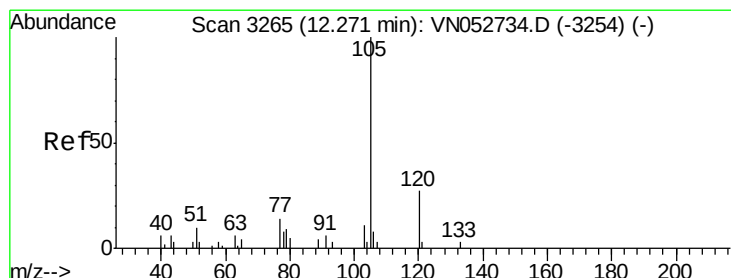
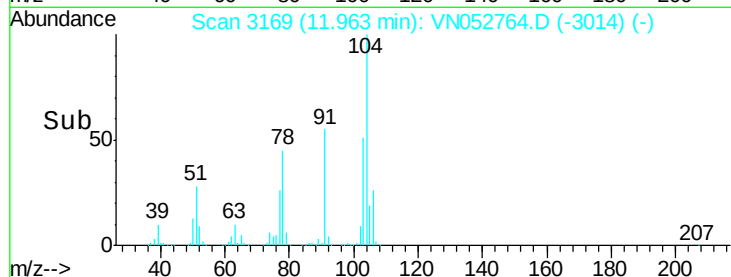
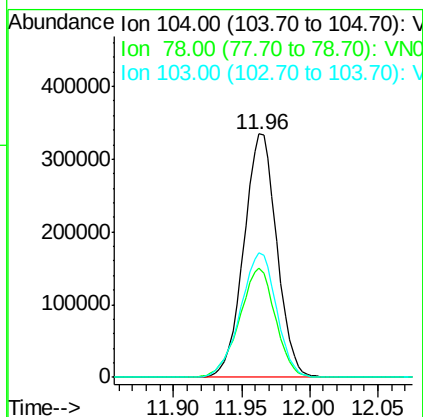
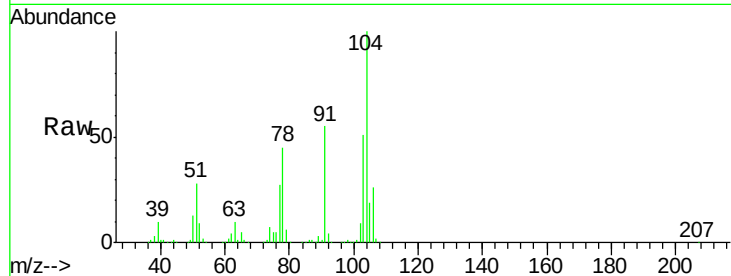
#69
Stvrene
Concen: 19.864 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.9	39.3	58.9
103	55.8	44.6	66.8

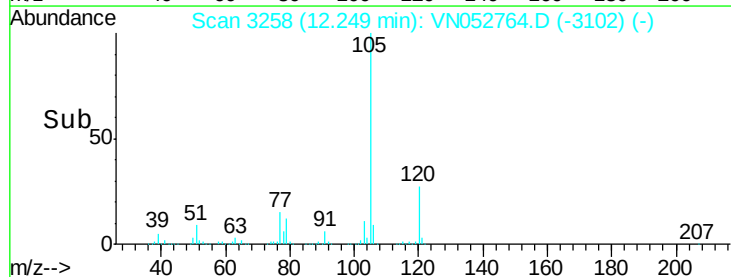
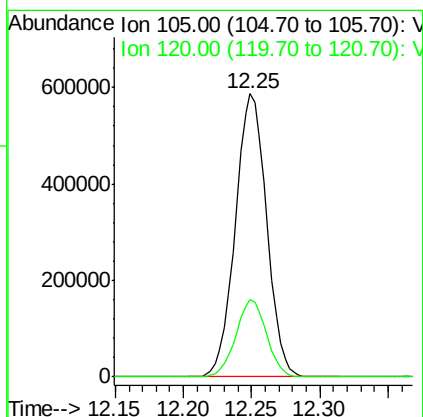
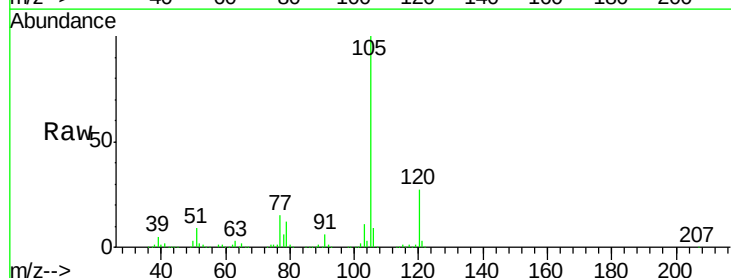
Manual Integrations
APPROVED

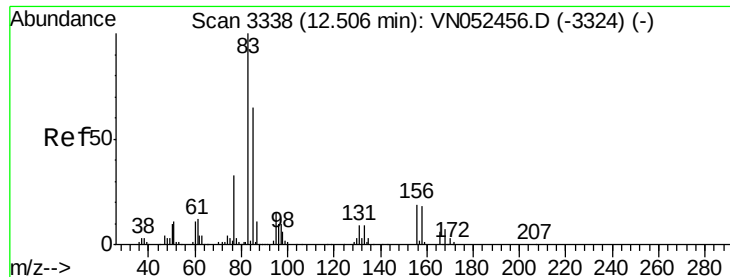
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12/11/2018 12:46:00 PM



#70
Isopropylbenzene
Concen: 20.012 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	18.6	34.6





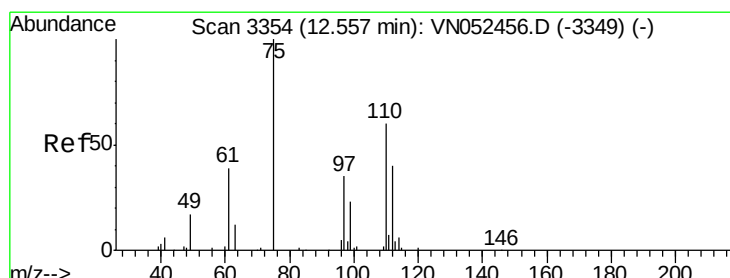
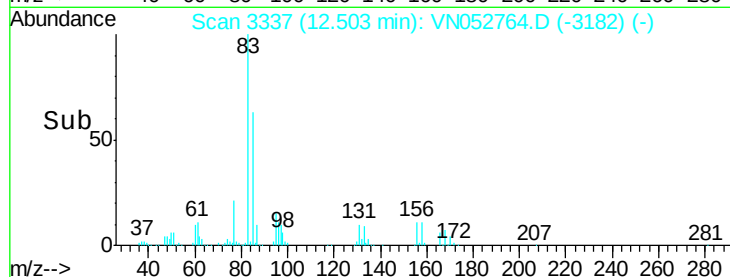
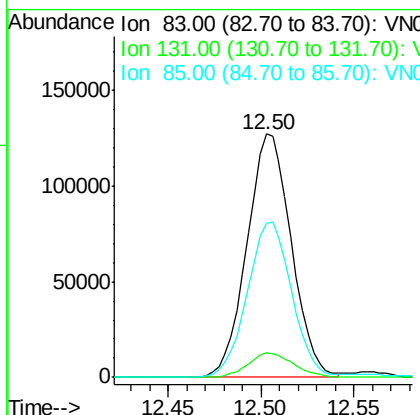
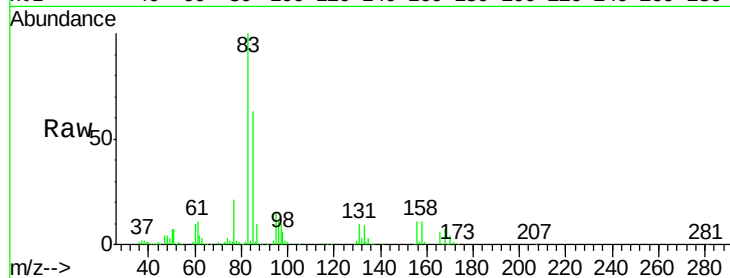
#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.832 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.9	14.6
85	63.8	32.2	96.6

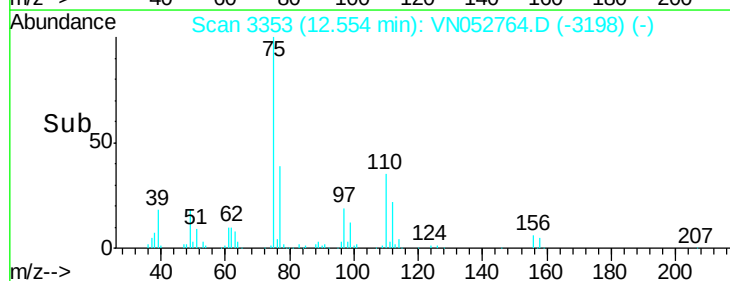
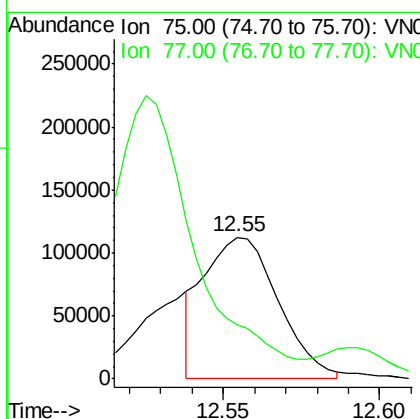
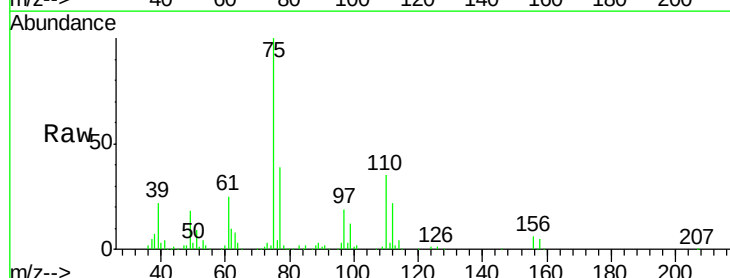
Manual Integrations
 APPROVED

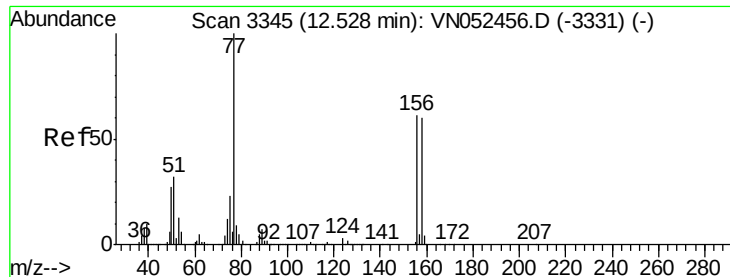
MMDadoda
 12/11/2018 12:46:00 PM



#72
 1,2,3-Trichloropropane
 Concen: 21.283 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
75	100		
77	232.1	0.0	514.8





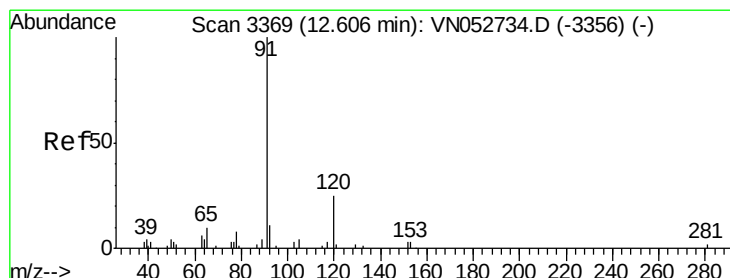
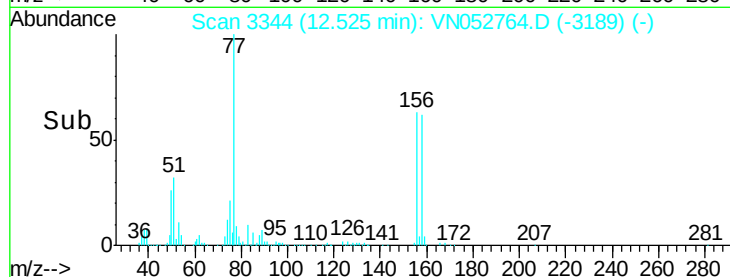
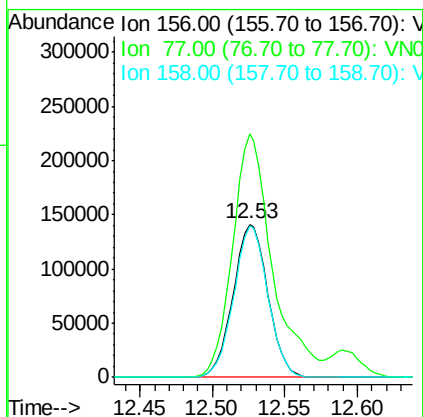
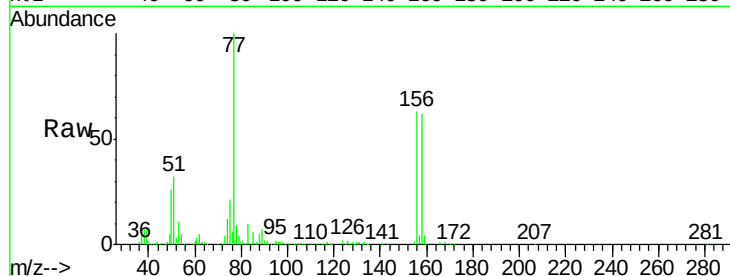
#73
Bromobenzene
Concen: 20.821 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	183.2	0.0	382.6
158	97.2	0.0	196.8

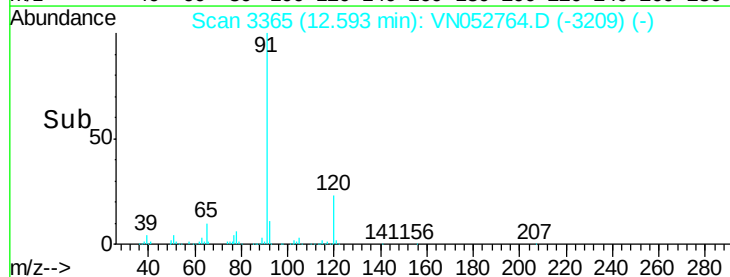
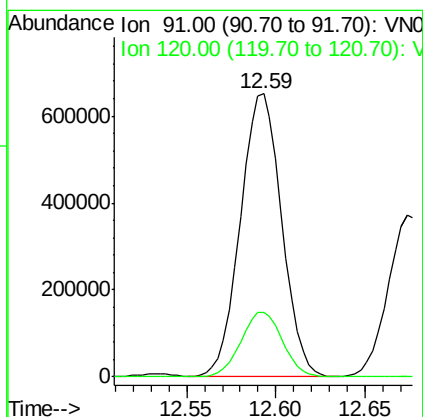
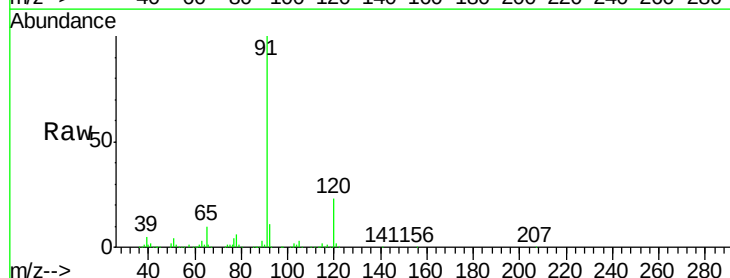
Manual Integrations
APPROVED

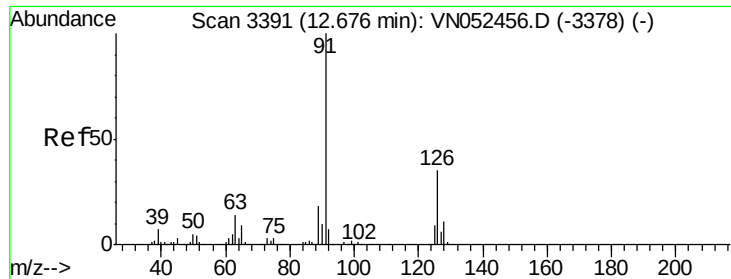
MMDadoda
12/11/2018 12:46:00 PM



#74
n-propylbenzene
Concen: 19.385 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.8	0.0	44.6





#75

2-Chlorotoluene

Concen: 20.020 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 91 Resp: 631319

Ion Ratio Lower Upper

91 100

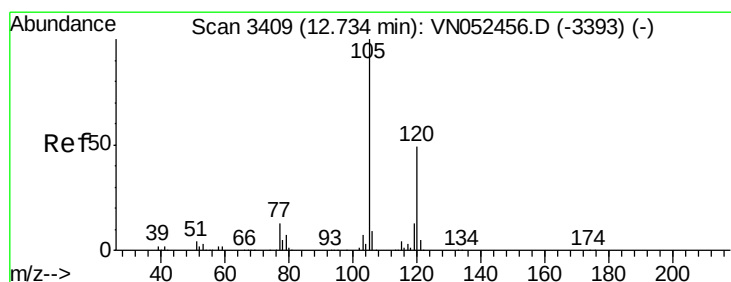
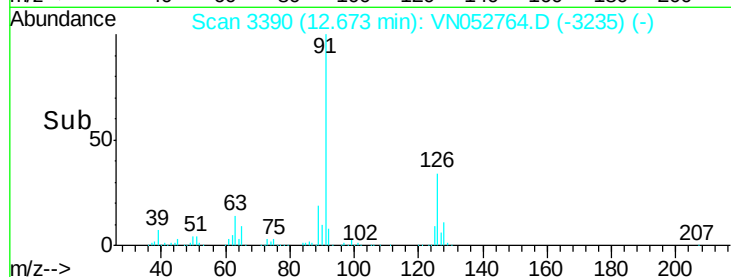
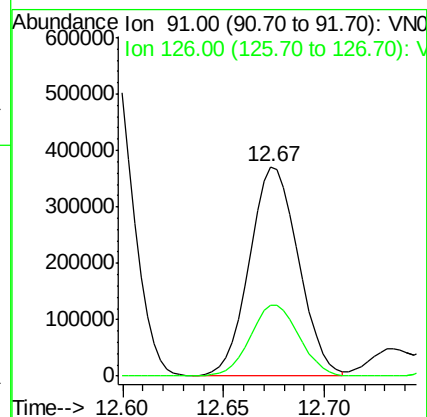
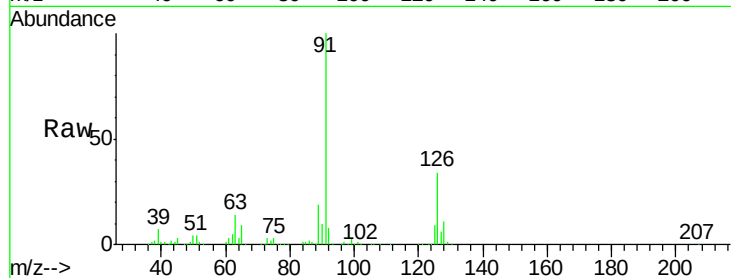
126 33.9 0.0 68.4

Manual Integrations

APPROVED

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12/11/2018 12:46:00 PM



#76

1,3,5-Trimethylbenzene

Concen: 19.861 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052764.D

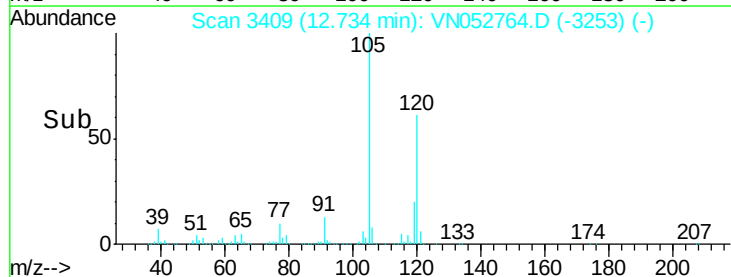
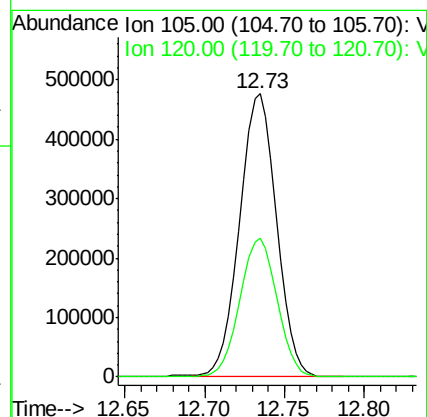
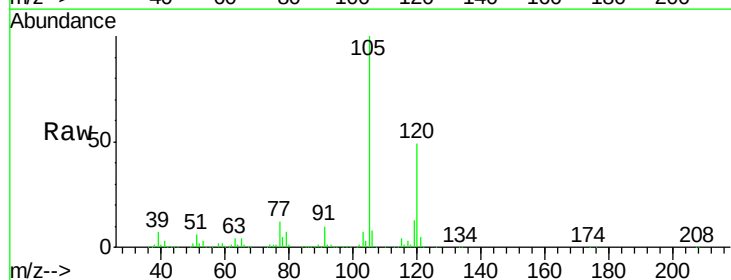
Acq: 10 Dec 2018 20:04

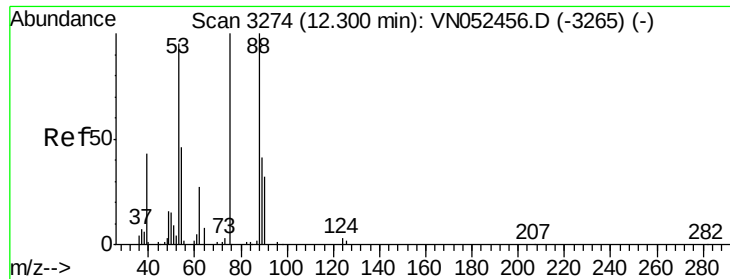
Tgt Ion: 105 Resp: 747996

Ion Ratio Lower Upper

105 100

120 49.5 0.0 97.4





#77

t-1,4-Dichloro-2-butene

Concen: 19.422 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

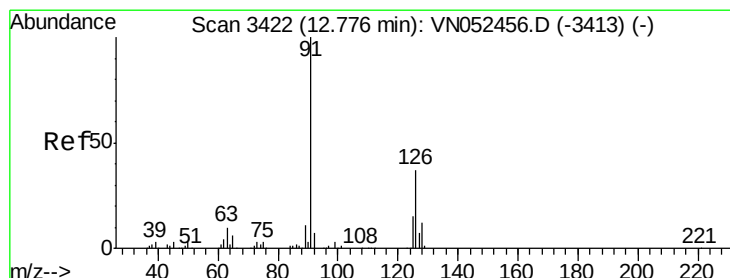
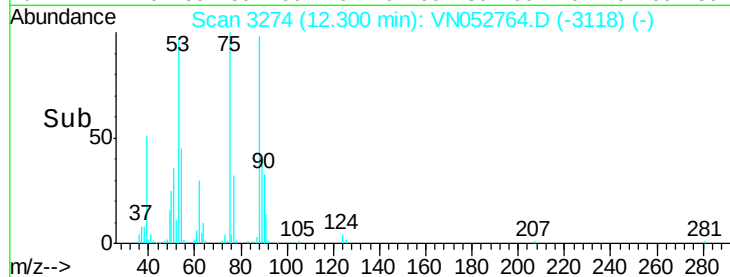
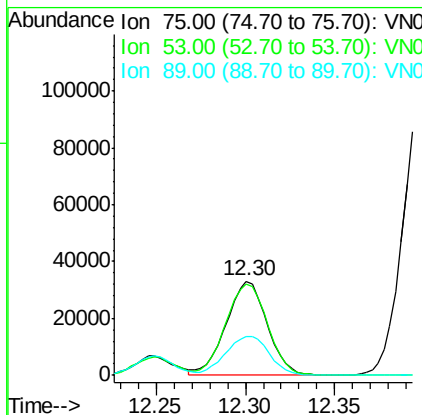
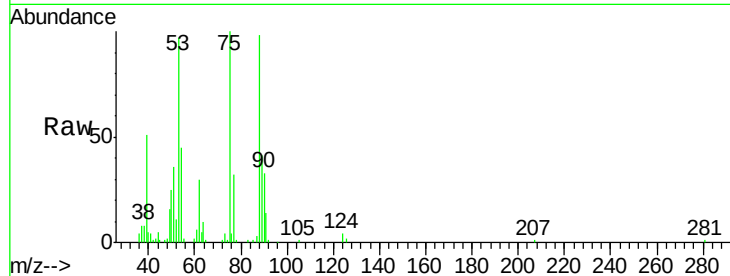
ClientSampleId :

VSTDCCC020EC

Tot Ion:	75	Resp:	53422
Ion	Ratio	Lower	Upper
75	100		
53	96.4	48.5	145.6
89	41.4	21.7	65.1

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#78

4-Chlorotoluene

Concen: 19.990 ug/l

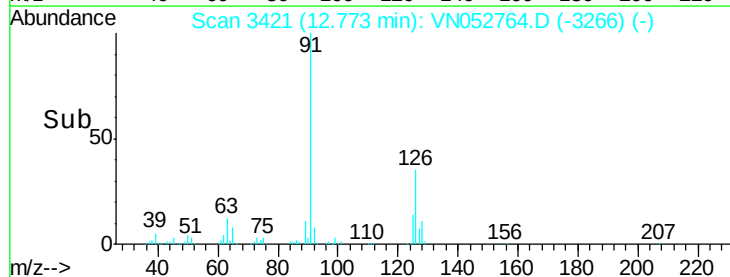
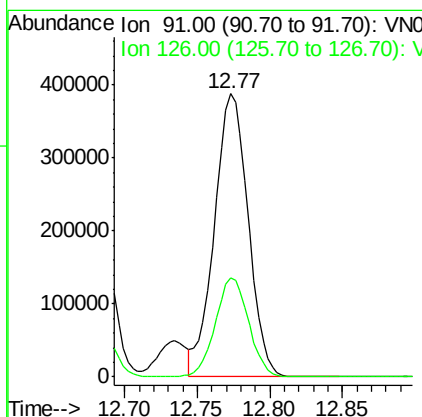
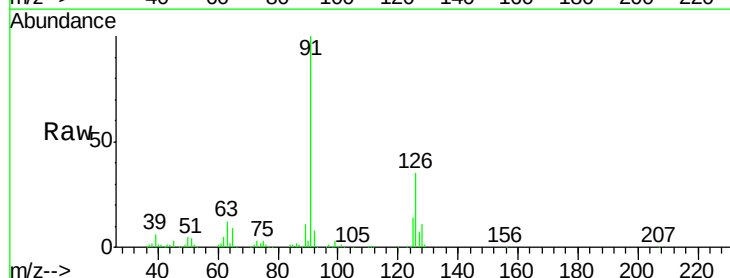
RT: 12.77 min Scan# 3421

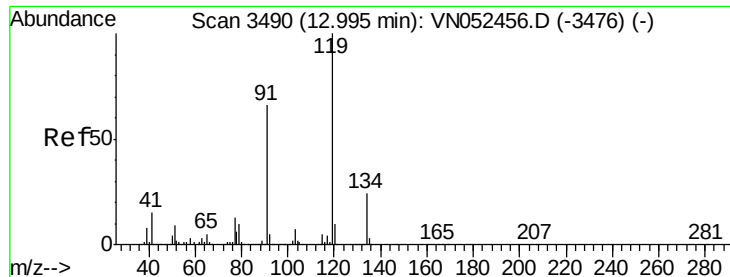
Delta R.T. -0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Tgt Ion:	91	Resp:	629517
Ion	Ratio	Lower	Upper
91	100		
126	34.5	0.0	68.2





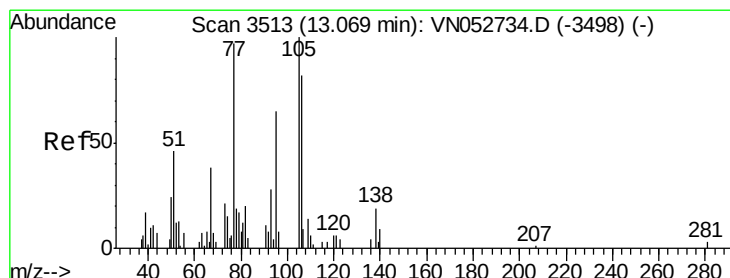
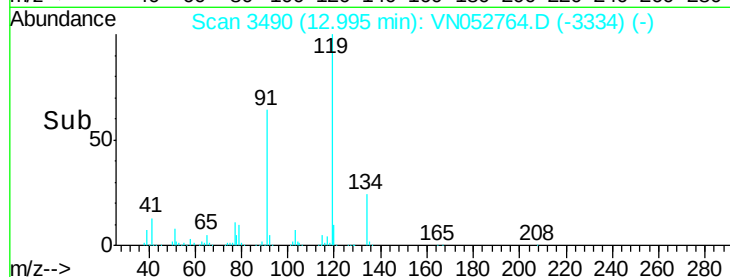
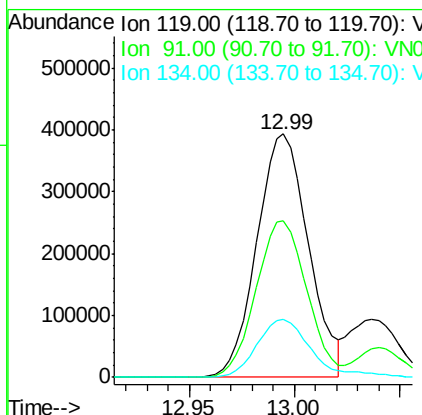
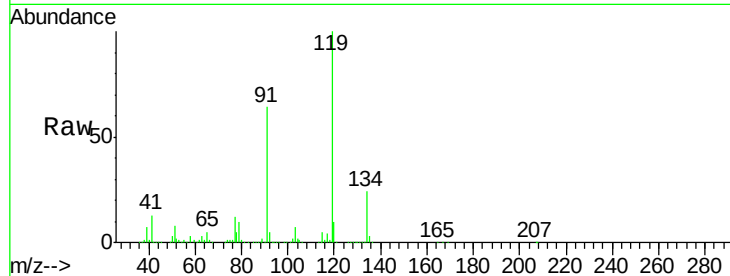
#79
 tert-butylbenzene
 Concen: 20.370 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	668111		
91	63.8	0.0	129.8	
134	25.1	0.0	52.2	

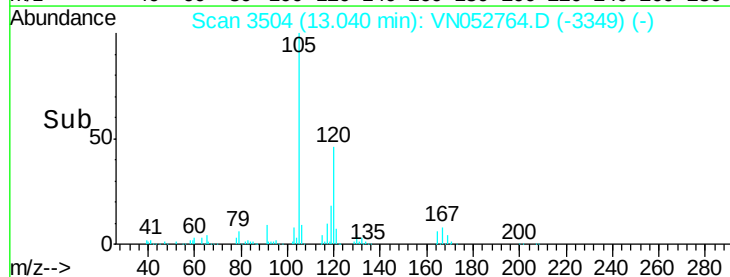
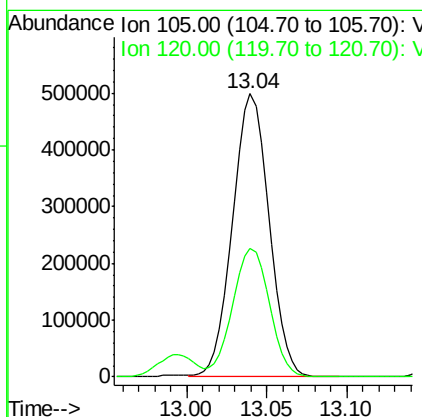
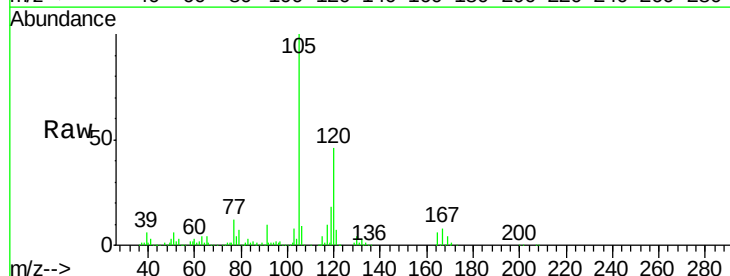
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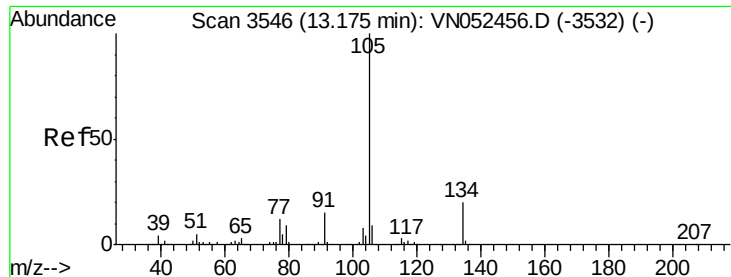
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#80
 1,2,4-Trimethylbenzene
 Concen: 20.547 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	774335		
120	46.0	0.0	91.0	





#81

sec-Butylbenzene

Concen: 19.559 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:105 Resp: 893545

Ion Ratio Lower Upper

105 100

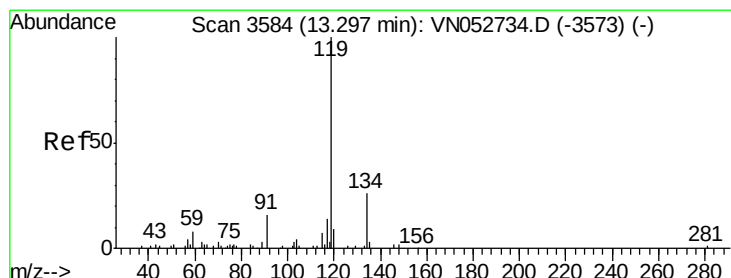
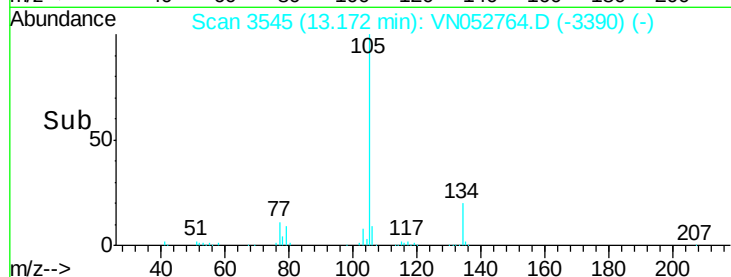
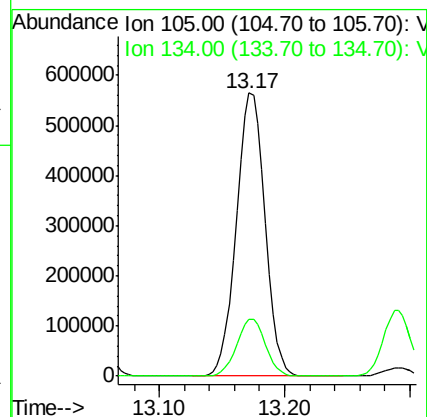
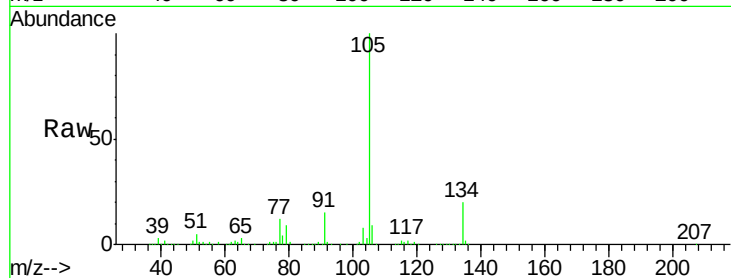
134 20.2 0.0 40.4

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#82

p-Isopropyltoluene

Concen: 19.864 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

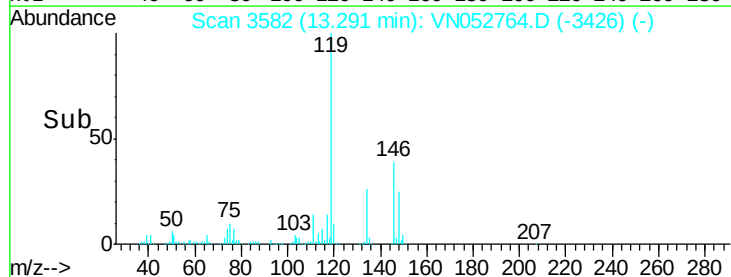
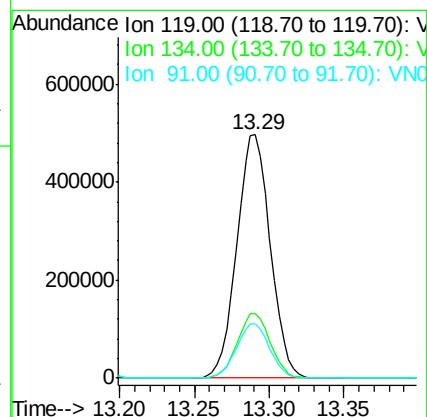
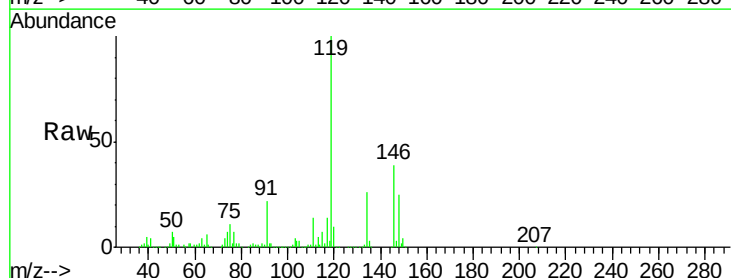
Tgt Ion:119 Resp: 772755

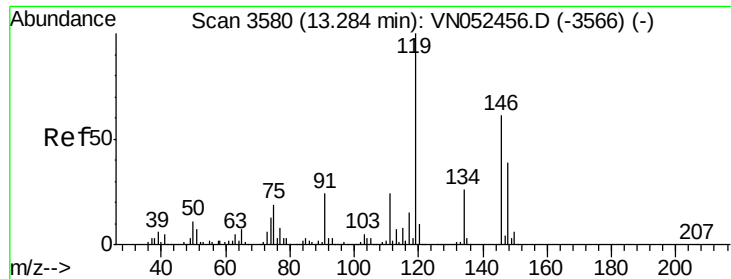
Ion Ratio Lower Upper

119 100

134 26.2 0.0 52.6

91 22.1 0.0 46.2





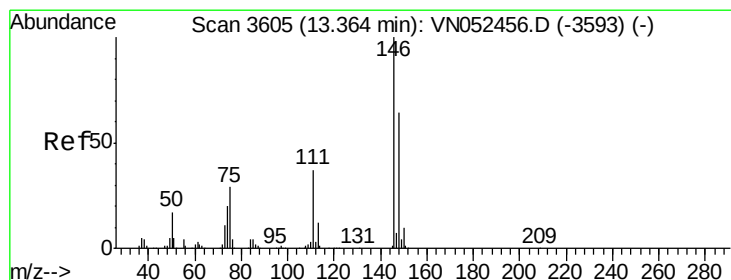
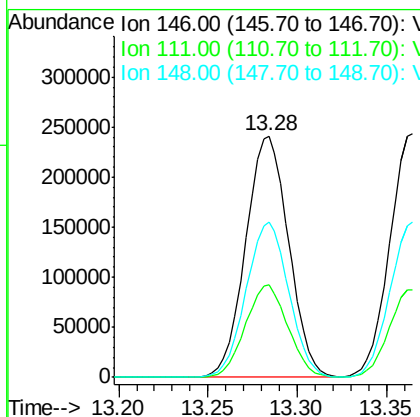
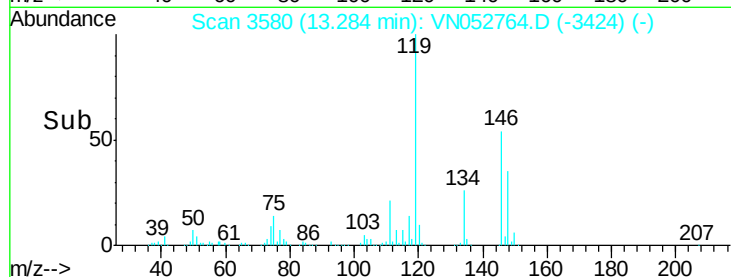
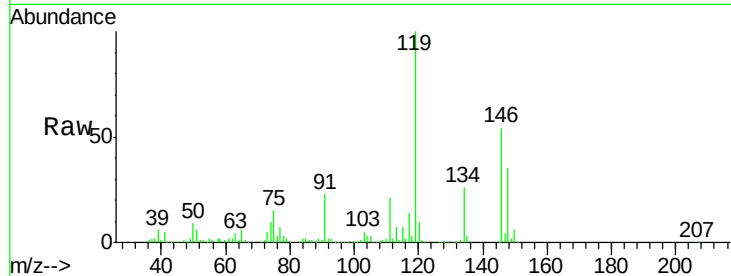
#83
 1,3-Dichlorobenzene
 Concen: 20.487 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.7	59.0
148	63.8	32.3	96.8

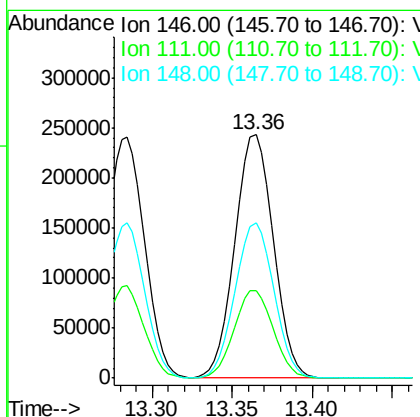
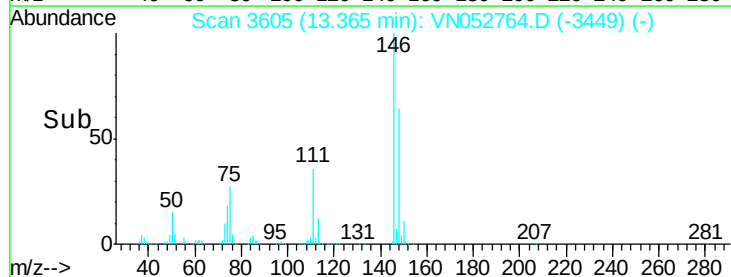
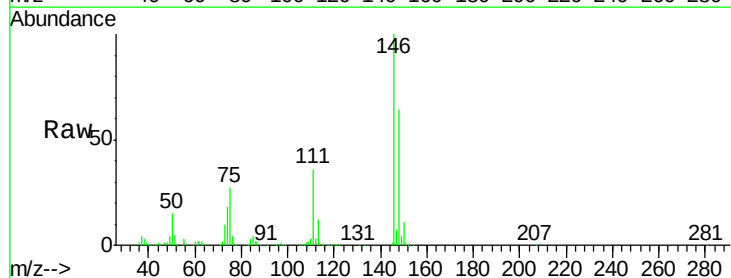
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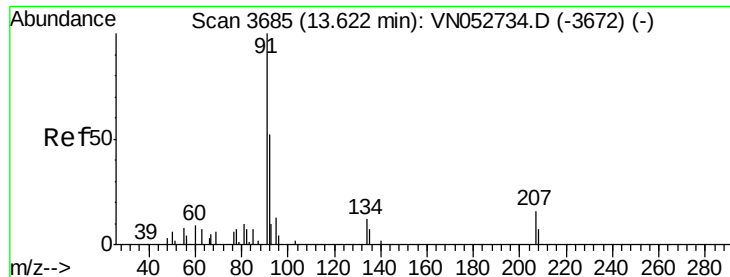
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#84
 1,4-Dichlorobenzene
 Concen: 20.880 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.8	56.3
148	64.0	32.5	97.4





#85

n-Butylbenzene

Concen: 18.680 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

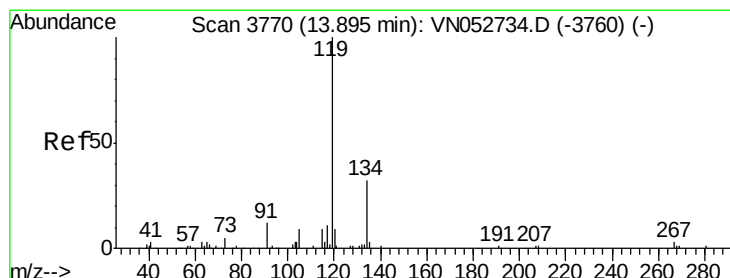
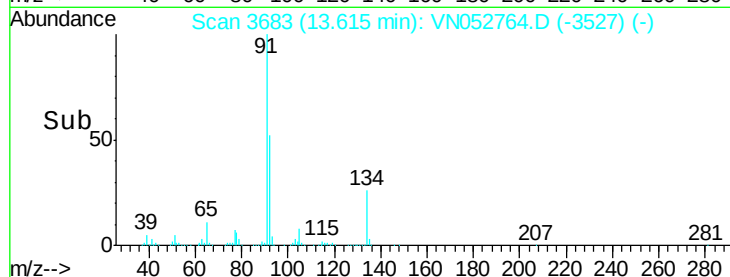
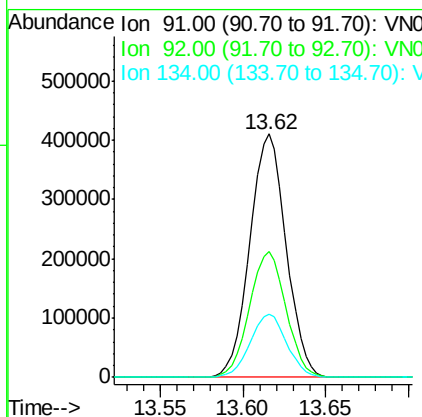
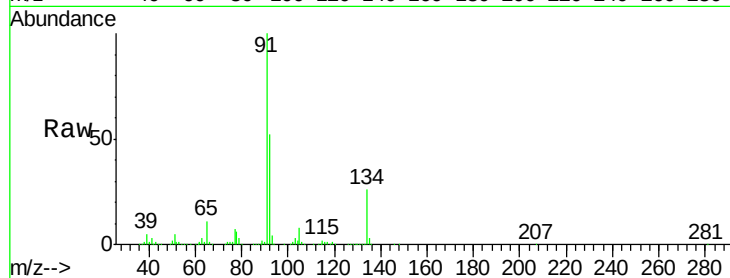
ClientSampleId :

VSTDCCC020EC

Tot Ion:	91	Resp:	624188
Ion Ratio	Lower	Upper	
91	100		
92	52.0	0.0	104.2
134	26.1	0.0	50.6

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#86

Hexachloroethane

Concen: 19.023 ug/l

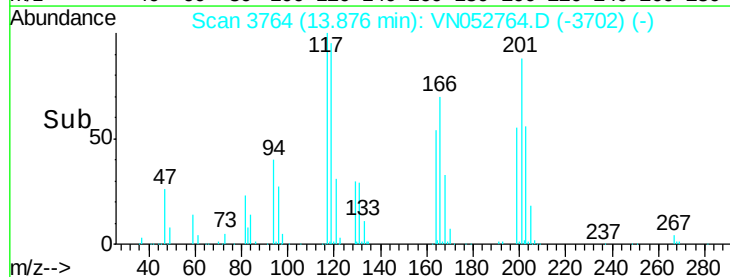
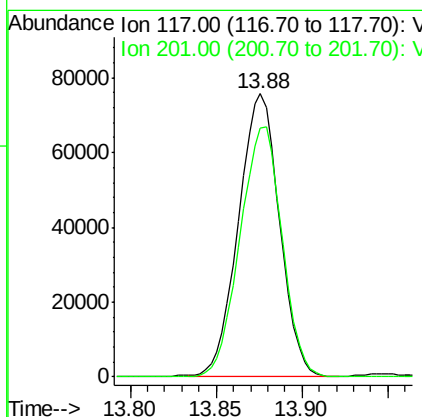
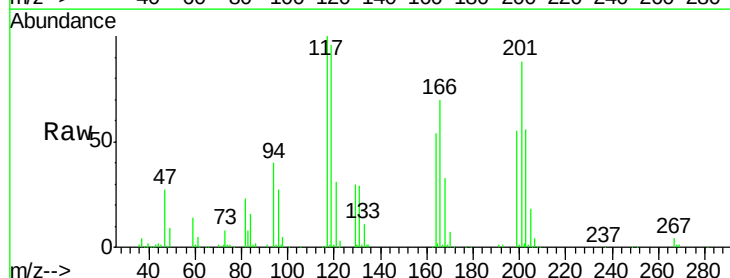
RT: 13.88 min Scan# 3764

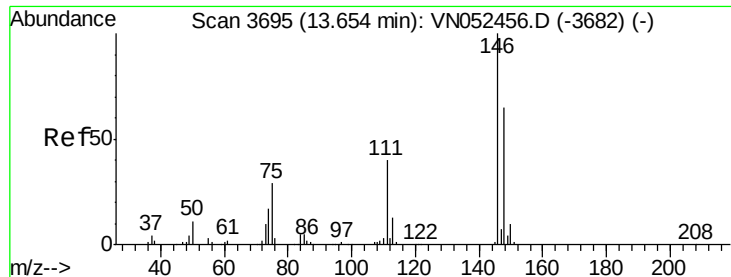
Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Tgt Ion:	117	Resp:	125386
Ion Ratio	Lower	Upper	
117	100		
201	90.3	43.8	131.3





#87

1,2-Dichlorobenzene

Concen: 21.235 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN052764.D

Acq: 10 Dec 2018 20:04

Instrument :

MSVOA_N

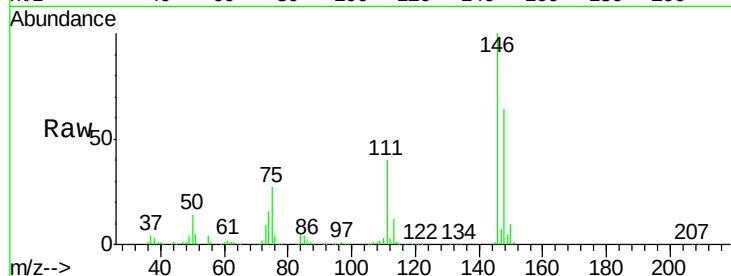
ClientSampleId :

VSTDCCC020EC

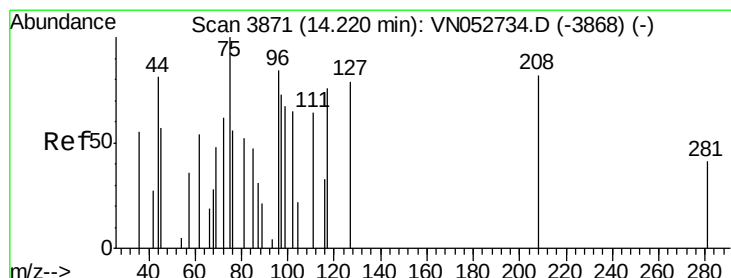
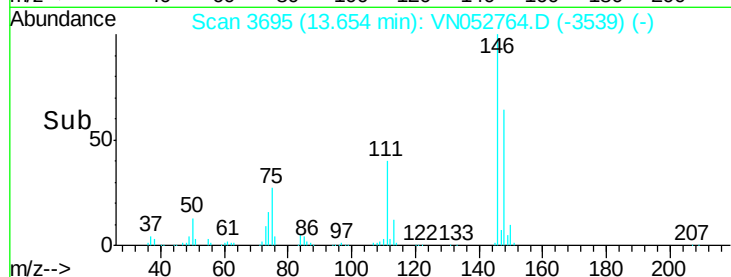
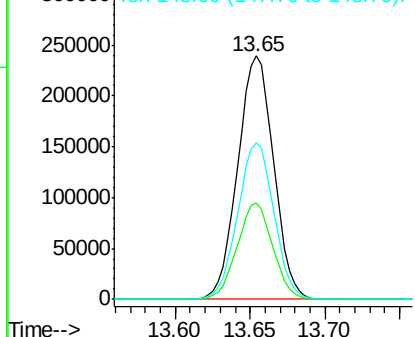
Tot Ion:	146	Resp:	400791
Ion Ratio		Lower	Upper
146	100		
111	39.0	20.3	60.8
148	64.6	32.1	96.5

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 22.799 ug/l

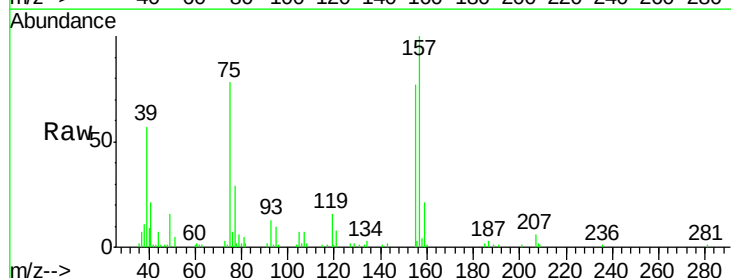
RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

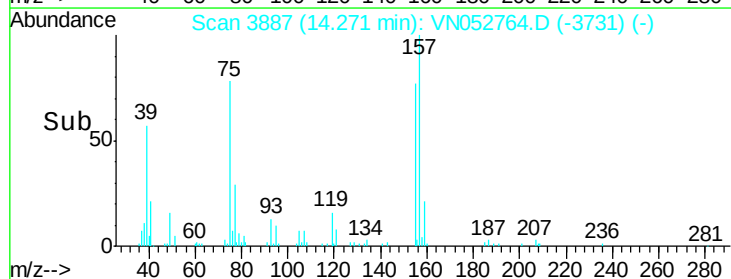
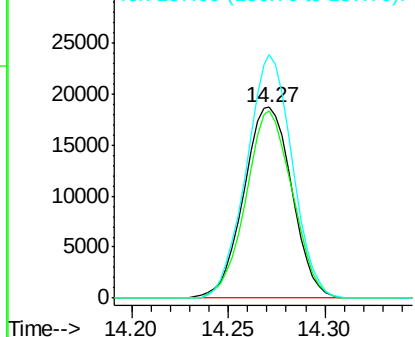
Lab File: VN052764.D

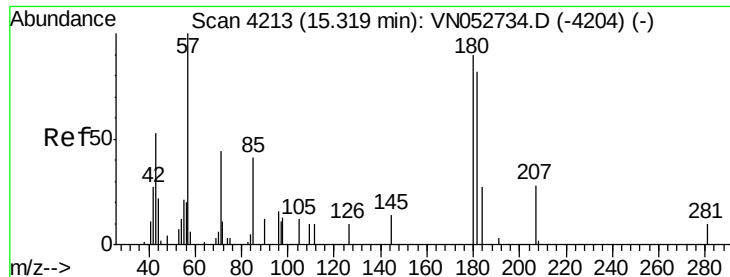
Acq: 10 Dec 2018 20:04

Tgt Ion:	75	Resp:	32393
Ion Ratio		Lower	Upper
75	100		
155	94.3	72.2	108.2
157	121.2	94.2	141.2



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





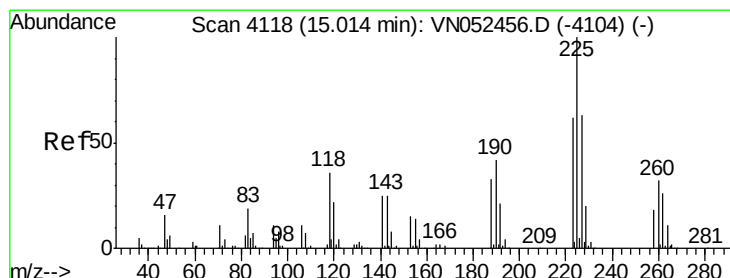
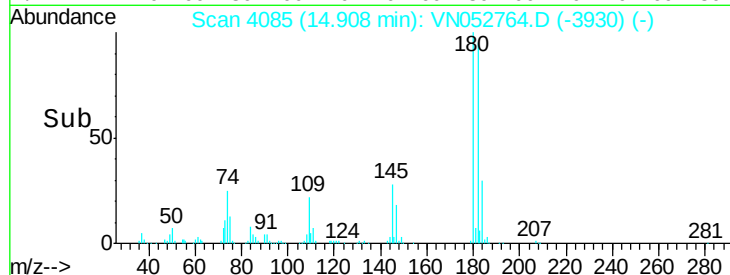
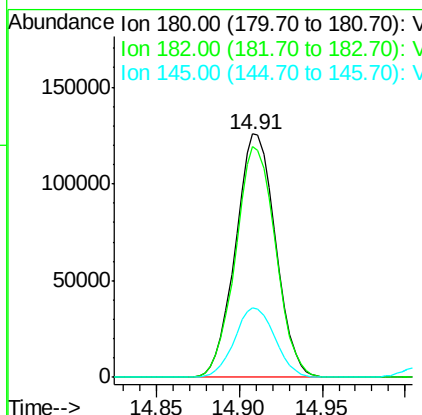
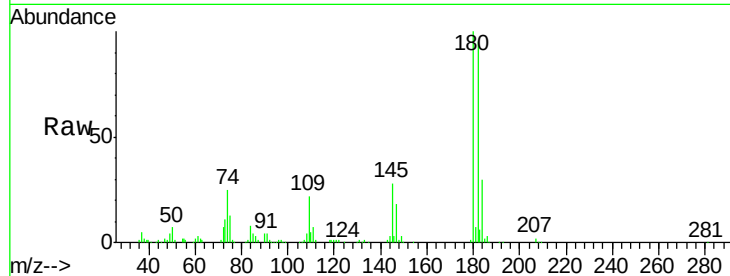
#89
 1,2,4-Trichlorobenzene
 Concen: 22.714 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.6	114.8
145	29.0	23.6	35.4

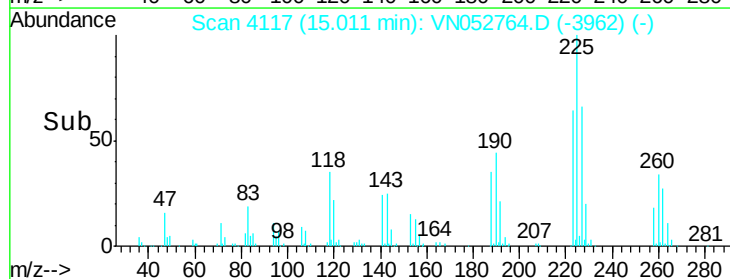
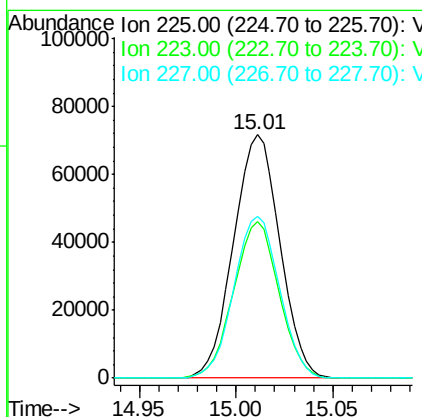
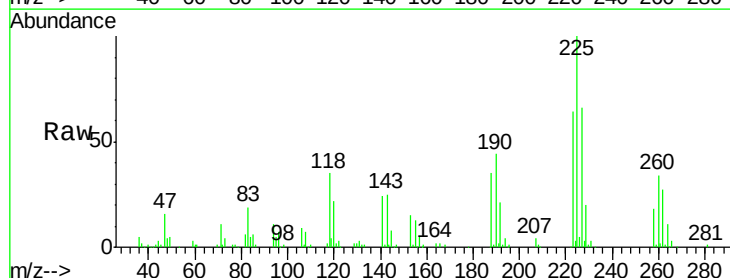
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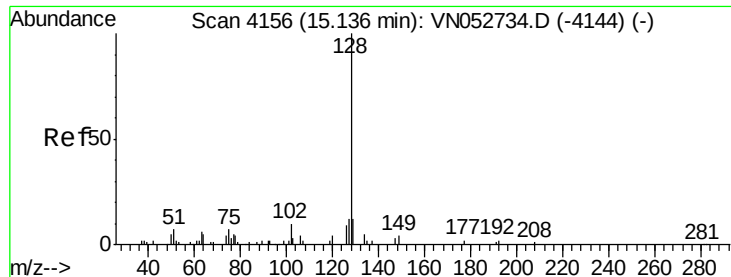
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#90
 Hexachlorobutadiene
 Concen: 19.638 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052764.D
 Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	0.0	125.6
227	65.4	0.0	127.8





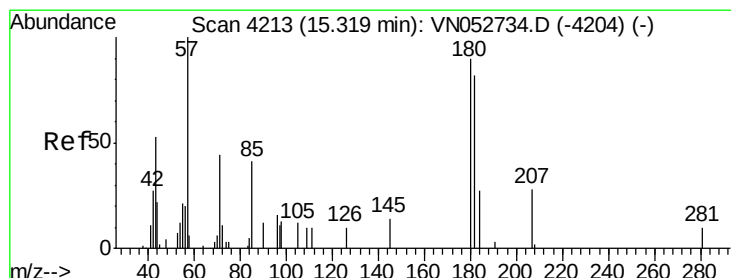
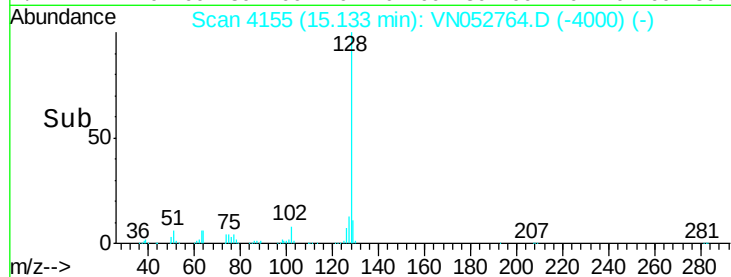
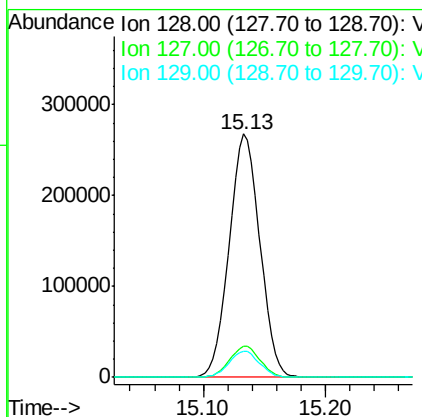
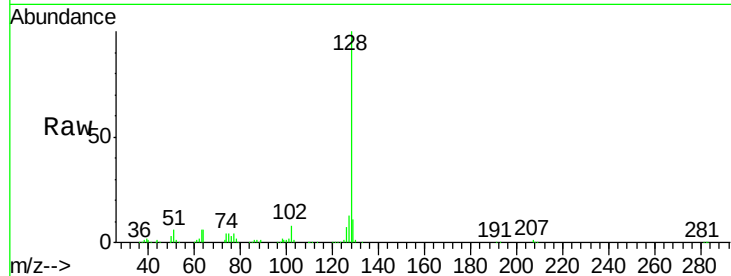
#91
Naphthalene
Concen: 25.034 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
128	100	470108		
127	12.8	9.9	14.9	
129	10.7	8.5	12.7	

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#92
1,2,3-Trichlorobenzene
Concen: 22.944 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN052764.D
Acq: 10 Dec 2018 20:04

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	196624		
182	95.7	0.0	196.2	
145	30.1	0.0	62.2	

