

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062519\
 Data File : VN056491.D
 Acq On : 25 Jun 2019 16:58
 Operator : JC/SP
 Sample : K3519-06MS
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 9:28:32 AM

Quant Time: Jun 26 05:04:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	346158	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	539030	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	476056	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	204399	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	202798	52.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.72%	
35) Dibromofluoromethane	7.59	113	179505	53.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.76%	
50) Toluene-d8	10.09	98	662037	50.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	12.40	95	231894	53.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.32%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	138476	47.244	ug/l	100
3) Chloromethane	2.06	50	177915	44.579	ug/l	99
4) Vinyl Chloride	2.18	62	181613	47.115	ug/l	100
5) Bromomethane	2.52	94	107845m	47.723	ug/l	
6) Chloroethane	2.67	64	105001	47.037	ug/l	97
7) Trichlorofluoromethane	3.00	101	241973	48.528	ug/l	97
8) Diethyl Ether	3.41	74	105032	49.772	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	153957	48.417	ug/l	100
10) Methyl Iodide	3.94	142	217540	50.618	ug/l	99
11) Tert butyl alcohol	4.80	59	190826	295.321	ug/l	100
12) 1,1-Dichloroethene	3.73	96	148978	48.719	ug/l	97
13) Acrolein	3.60	56	114419	210.098	ug/l	100
14) Allyl chloride	4.32	41	262169	51.504	ug/l	99
15) Acrylonitrile	4.99	53	486383	272.085	ug/l	99
16) Acetone	3.82	43	376838	196.051	ug/l	100
17) Carbon Disulfide	4.05	76	300360	43.185	ug/l	100
18) Methyl Acetate	4.32	43	199732	53.108	ug/l	100
19) Methyl tert-butyl Ether	5.04	73	527566	52.139	ug/l	100
20) Methylene Chloride	4.55	84	183611	50.684	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	162365	49.248	ug/l	95
22) Diisopropyl ether	5.95	45	555755	51.987	ug/l	97
23) Vinyl Acetate	5.89	43	2341411	277.689	ug/l	100
24) 1,1-Dichloroethane	5.85	63	313010	51.007	ug/l	99
25) 2-Butanone	6.84	43	642650	252.617	ug/l	98
26) 2,2-Dichloropropane	6.82	77	225159	52.755	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	199530	51.729	ug/l	100
28) Bromochloromethane	7.19	49	156887	51.687	ug/l	99
29) Tetrahydrofuran	7.21	42	430404	276.853	ug/l	99
30) Chloroform	7.37	83	315008	52.022	ug/l	99
31) Cyclohexane	7.65	56	268179	45.267	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	248520	51.778	ug/l	99
36) 1,1-Dichloropropene	7.79	75	222883	46.978	ug/l	99
37) Ethyl Acetate	6.93	43	251603	53.963	ug/l	99
38) Carbon Tetrachloride	7.77	117	205458	49.521	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	266149	45.463	ug/l	99
40) Benzene	8.04	78	713567	48.895	ug/l	99
41) Methacrylonitrile	7.17	41	96352	46.798	ug/l	91
42) 1,2-Dichloroethane	8.12	62	233993	48.584	ug/l	99
43) Isopropyl Acetate	8.17	43	410019	57.030	ug/l	98
44) Trichloroethene	8.83	130	189968	48.323	ug/l	95
45) 1,2-Dichloropropane	9.12	63	198274	50.801	ug/l	99
46) Dibromomethane	9.21	93	124254	50.886	ug/l	99
47) Bromodichloromethane	9.40	83	231592	53.476	ug/l	96
48) Methyl methacrylate	9.20	41	186533	51.774	ug/l	100
49) 1,4-Dioxane	9.20	88	83261	1113.616	ug/l	92
51) 4-Methyl-2-Pentanone	9.99	43	1266361	272.900	ug/l	100
52) Toluene	10.16	92	438164	49.108	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	248788	49.362	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	284817	54.613	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	186171	51.910	ug/l	98
56) Ethyl methacrylate	10.43	69	285419	54.456	ug/l	98
57) 1,3-Dichloropropane	10.71	76	311725	51.739	ug/l	100
59) 2-Hexanone	10.75	43	878925	257.710	ug/l	99
60) Dibromochloromethane	10.90	129	183385	49.759	ug/l	99
61) 1,2-Dibromoethane	11.00	107	191096	52.170	ug/l	99
64) Tetrachloroethene	10.63	164	179485	47.609	ug/l	98
65) Chlorobenzene	11.43	112	482580	50.449	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	176157	54.488	ug/l	99
67) Ethyl Benzene	11.51	91	832292	49.553	ug/l	99
68) m/p-Xylenes	11.62	106	628644	102.130	ug/l	100
69) o-Xylene	11.95	106	308882	50.722	ug/l	99
70) Stvrene	11.96	104	515893	53.000	ug/l	99
71) Bromoform	12.13	173	130290	49.958	ug/l #	99
73) Isopropylbenzene	12.25	105	825328	53.972	ug/l	99
74) N-amyl acetate	12.07	43	319249	49.076	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	266574	56.486	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	229608m	54.175	ug/l	
77) Bromobenzene	12.53	156	214902	47.021	ug/l	98
78) n-propylbenzene	12.59	91	881404	47.089	ug/l	99
79) 2-Chlorotoluene	12.67	91	542216	52.979	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	672646	52.399	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	67347	56.476	ug/l	94
82) 4-Chlorotoluene	12.77	91	522296	47.258	ug/l	99
83) tert-Butylbenzene	12.99	119	599810	53.716	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	644340	46.827	ug/l	100
85) sec-Butylbenzene	13.17	105	760555	46.229	ug/l	99
86) p-Isopropyltoluene	13.29	119	671120	47.532	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	337895	48.785	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	324674	48.402	ug/l	99
89) n-Butylbenzene	13.61	91	498514	46.640	ug/l	100
90) Hexachloroethane	13.87	117	110275	50.097	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	339423	49.394	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	41012	54.227	ug/l	97
93) 1,2,4-Trichlorobenzene	14.91	180	133131	38.639	ug/l	98

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SP-19-LF2MW2MS

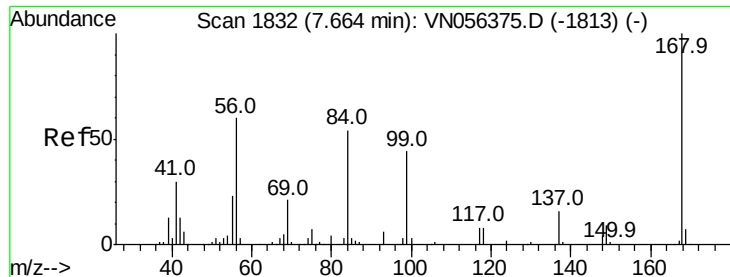
Manual Integrations
APPROVED

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Quant Title : SW846 8260
QLast Update : Fri Jun 21 03:45:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.01	225	118301	50.831	ug/l	99
95) Naphthalene	15.13	128	366487	40.320	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	146685	40.495	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:168 Resp: 346158

Ion Ratio Lower Upper

168 100

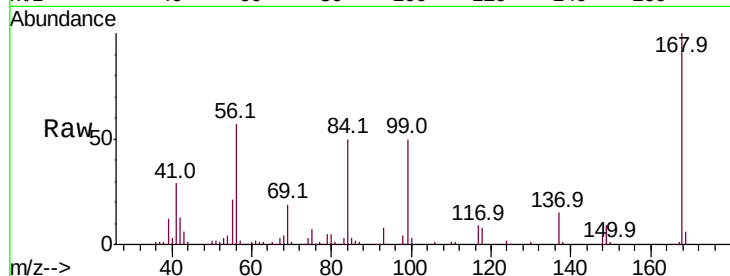
99 50.0 40.6 61.0

Manual Integrations

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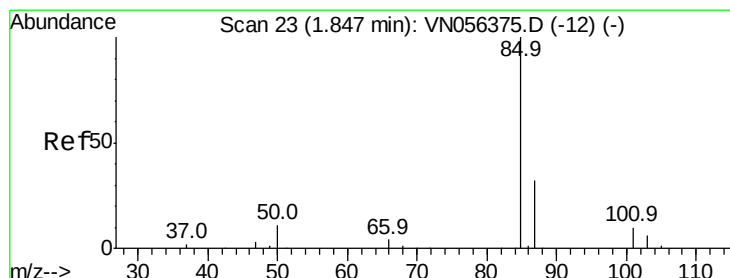
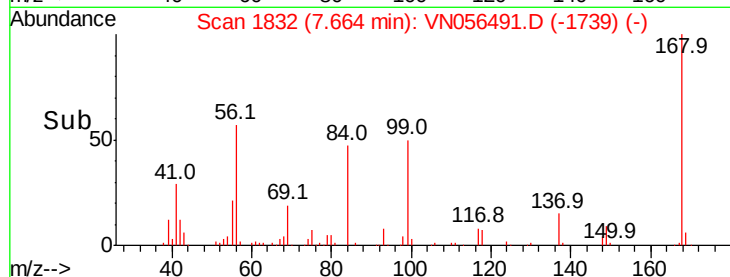
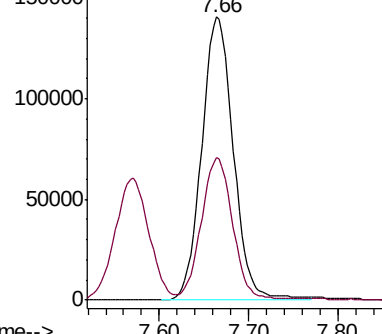
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 47.244 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN056491.D

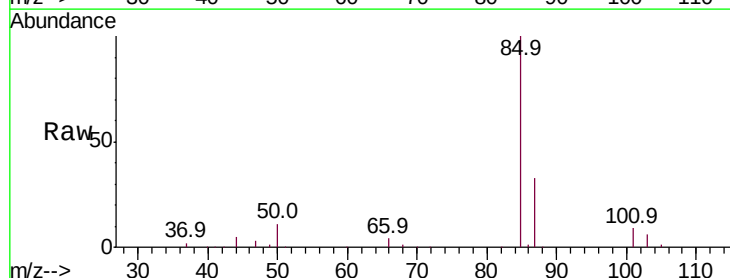
Acq: 25 Jun 2019 16:58

Tgt Ion: 85 Resp: 138476

Ion Ratio Lower Upper

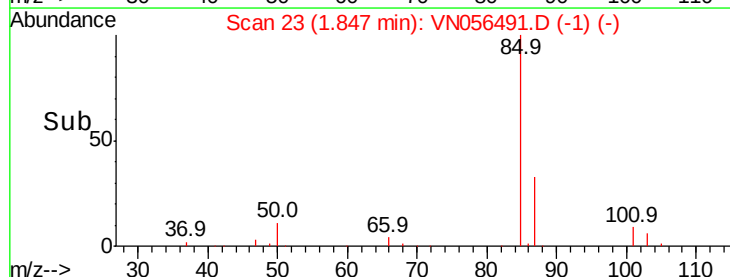
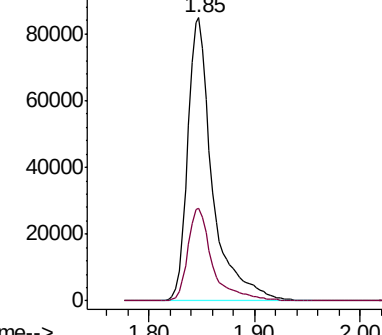
85 100

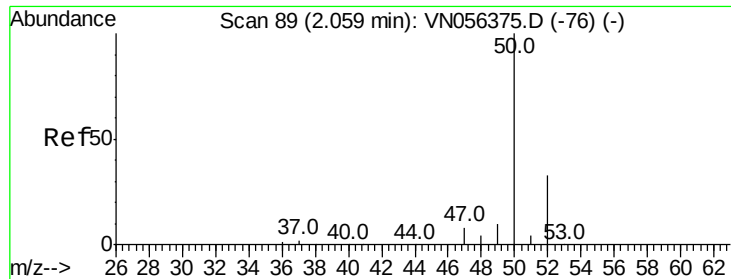
87 32.5 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





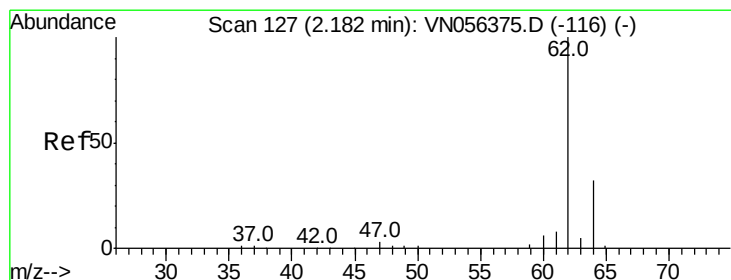
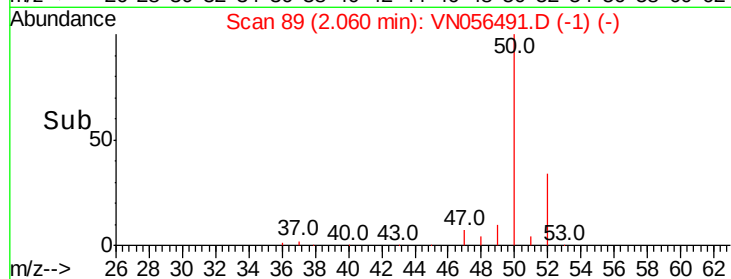
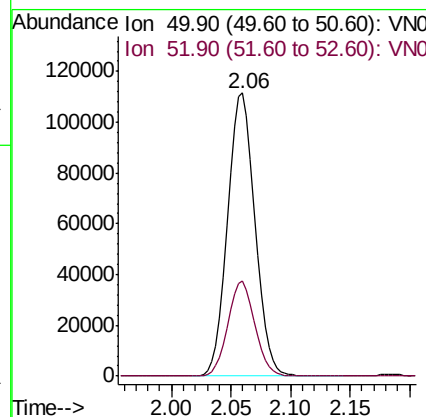
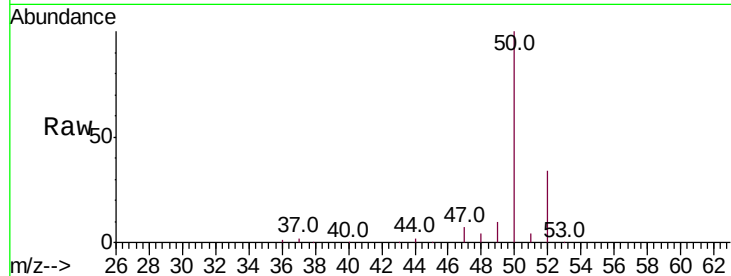
#3
Chloromethane
Concen: 44.579 ug/l
RT: 2.06 min Scan# 89
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
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SP-19-LF2MW2MS

Tot Ion	50	52	Ratio	100	Resp	Lower	Upper
50	100				177915		
52	33.5				26.5	39.7	

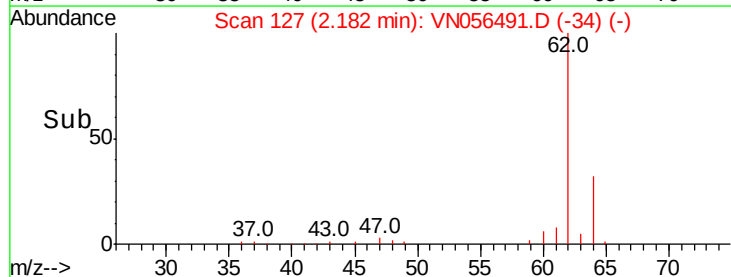
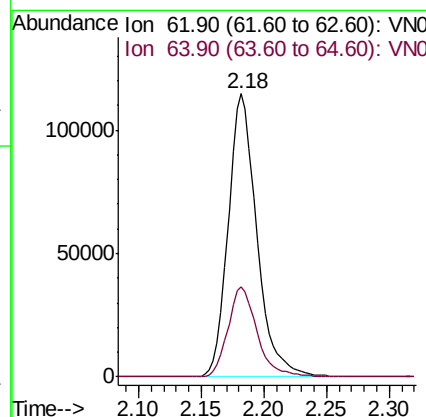
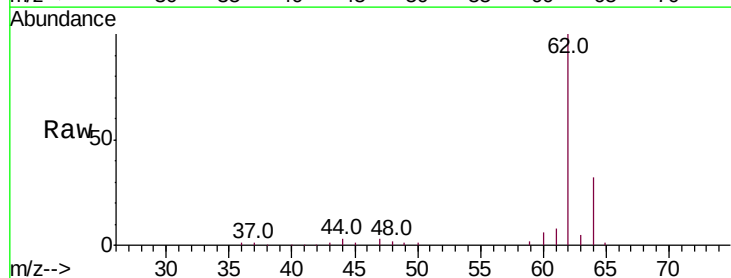
Manual Integrations
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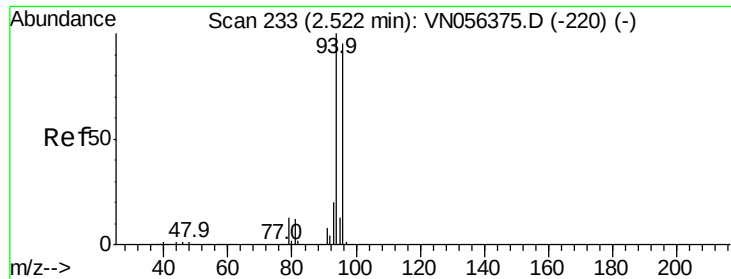
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#4
Vinyl Chloride
Concen: 47.115 ug/l
RT: 2.18 min Scan# 127
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion	62	64	Ratio	100	Resp	Lower	Upper
62	100				181613		
64	32.0				25.7	38.5	





#5

Bromomethane

Concen: 47.723 ug/l m

RT: 2.52 min Scan# 232

Delta R.T. -0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 94 Resp: 107845

Ion Ratio Lower Upper

94 100

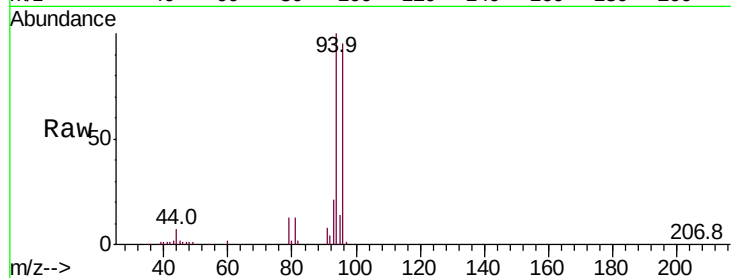
96 95.3 76.0 114.0

Manual Integrations

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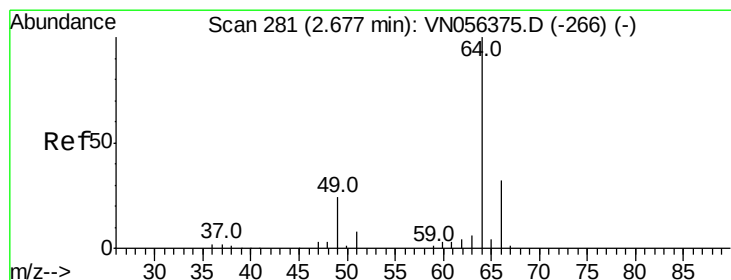
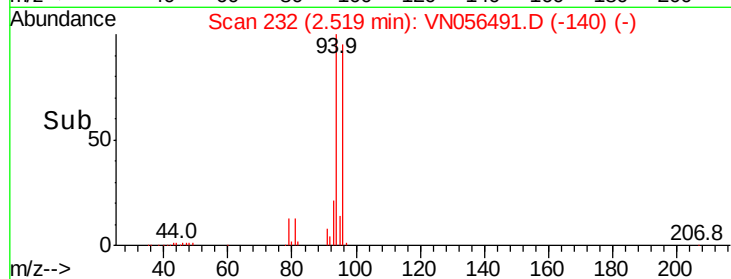
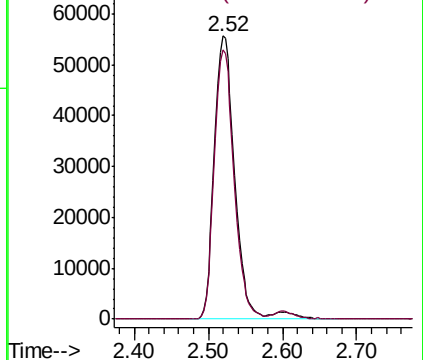
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 47.037 ug/l

RT: 2.67 min Scan# 280

Delta R.T. -0.00 min

Lab File: VN056491.D

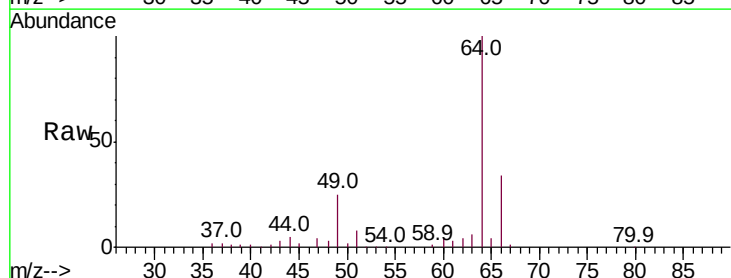
Acq: 25 Jun 2019 16:58

Tgt Ion: 64 Resp: 105001

Ion Ratio Lower Upper

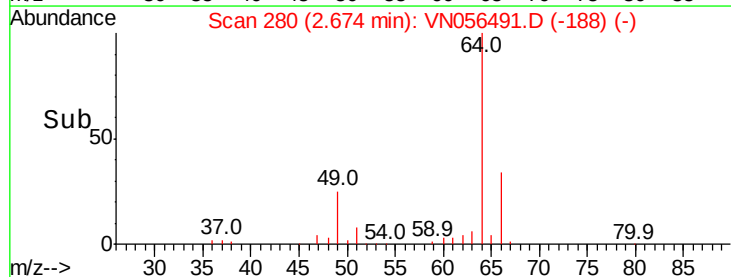
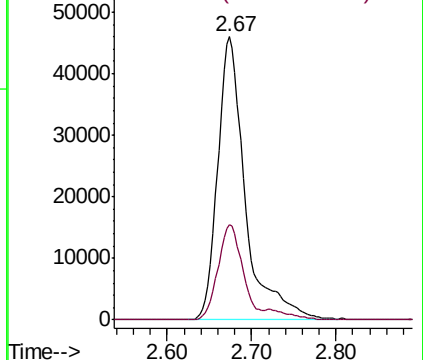
64 100

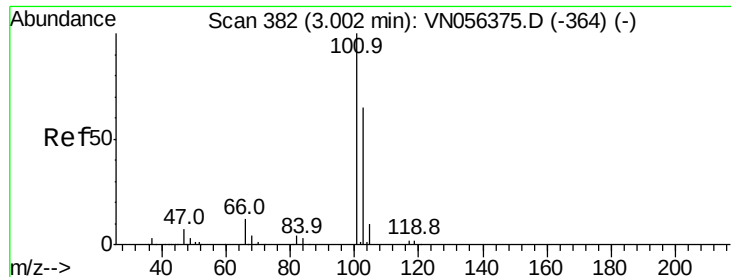
66 33.8 25.8 38.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

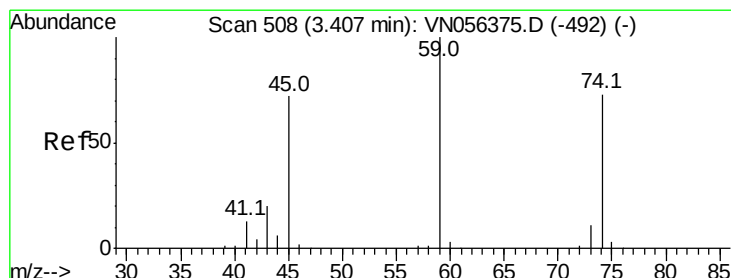
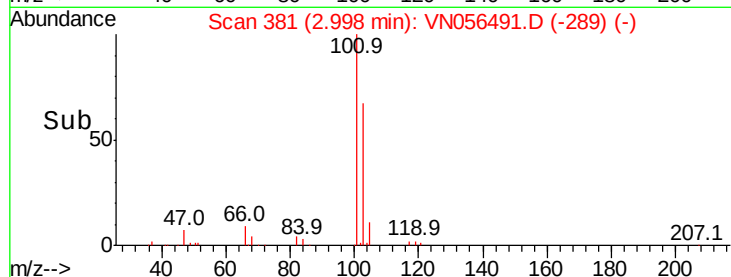
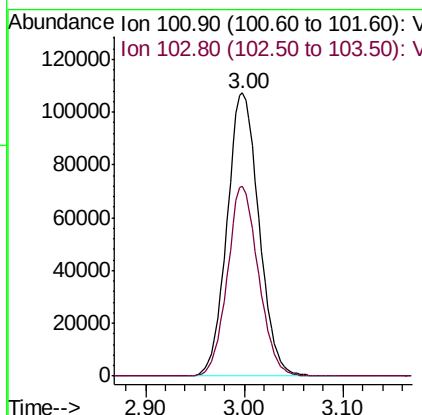
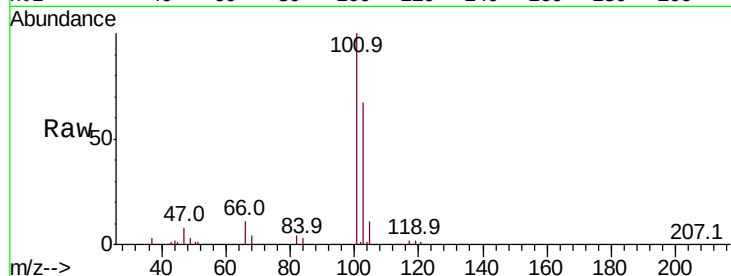
Trichlorofluoromethane
 Concen: 48.528 ug/l
 RT: 3.00 min Scan# 381
 Delta R.T. -0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
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 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.1	51.7	77.5

Manual Integrations
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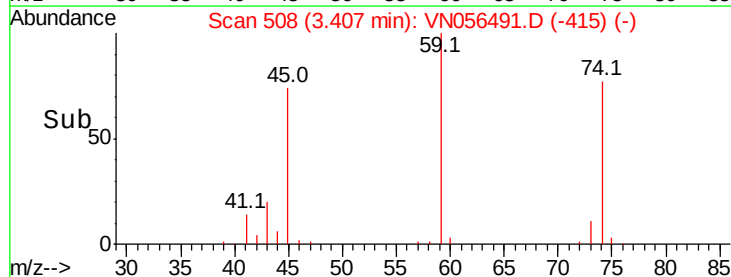
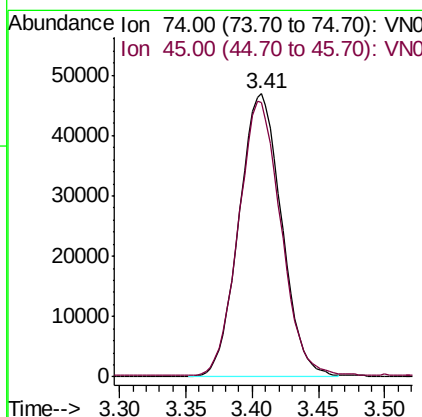
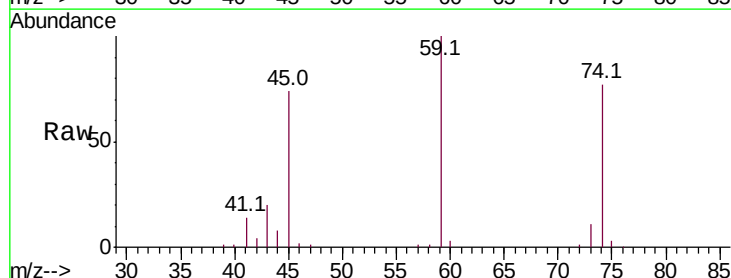
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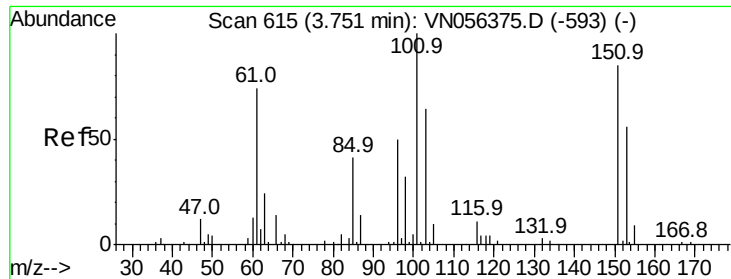


#8

Diethyl Ether
 Concen: 49.772 ug/l
 RT: 3.41 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.2	48.9	146.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.417 ug/l

RT: 3.75 min Scan# 614

Delta R.T. -0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

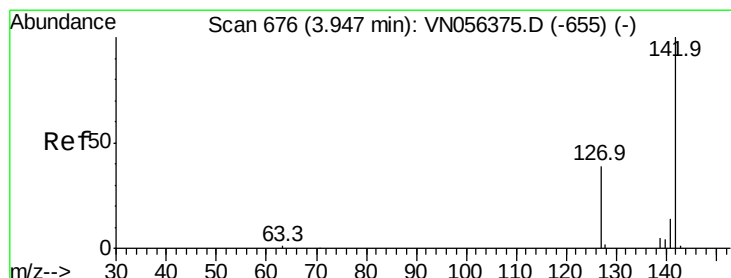
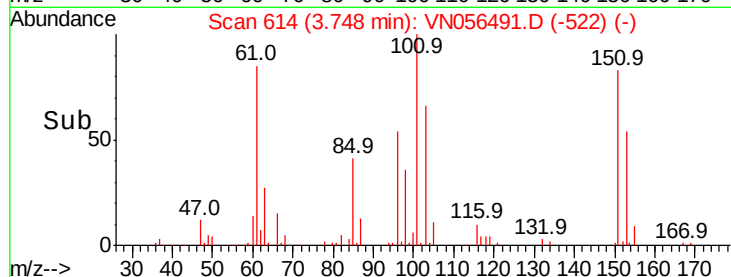
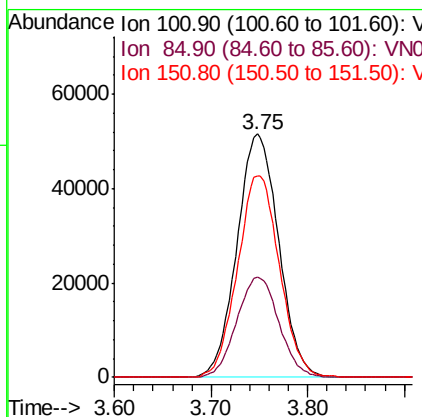
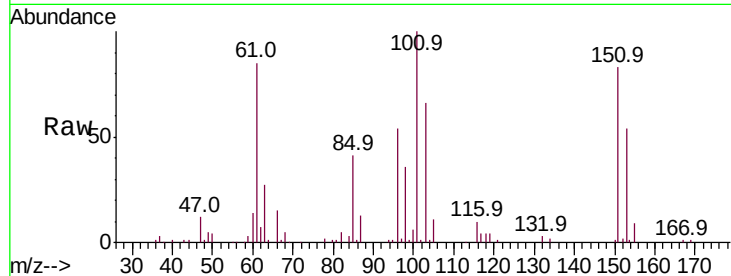
ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:	101	Resp:	153957
Ion Ratio	Lower	Upper	
101	100		
85	41.7	32.7	49.1
151	83.6	66.8	100.2

Manual Integrations
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MMDadoda
6/26/2019 9:28:32 AM



#10

Methyl Iodide

Concen: 50.618 ug/l

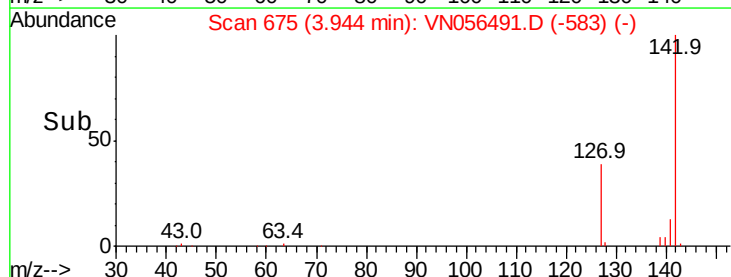
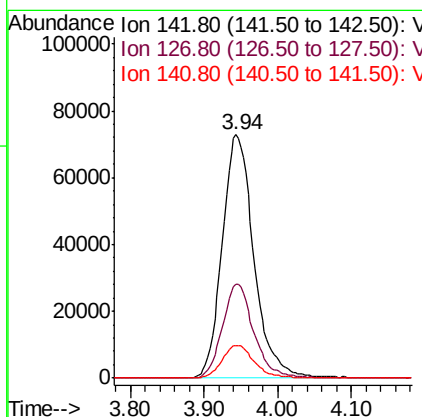
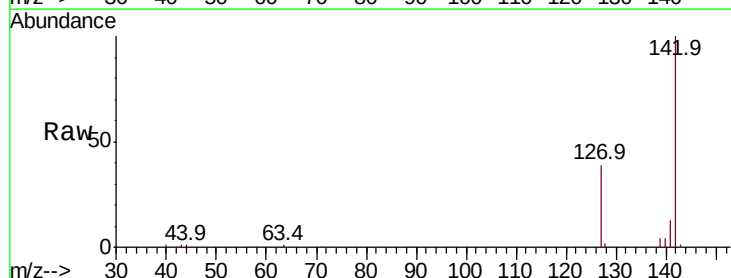
RT: 3.94 min Scan# 675

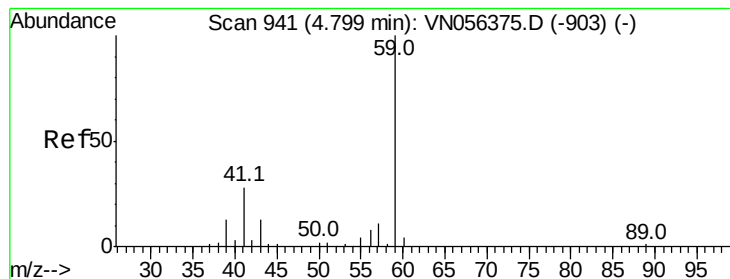
Delta R.T. -0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion:	142	Resp:	217540
Ion Ratio	Lower	Upper	
142	100		
127	38.1	30.6	46.0
141	13.6	11.4	17.2





#11

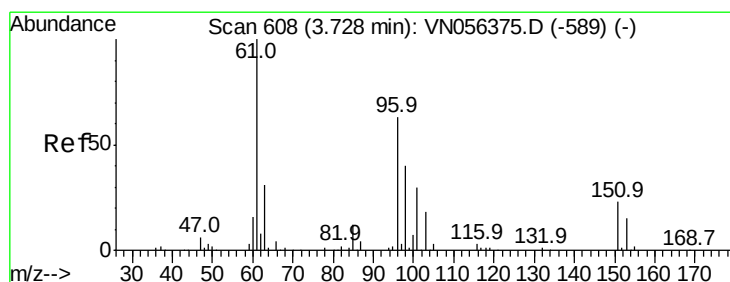
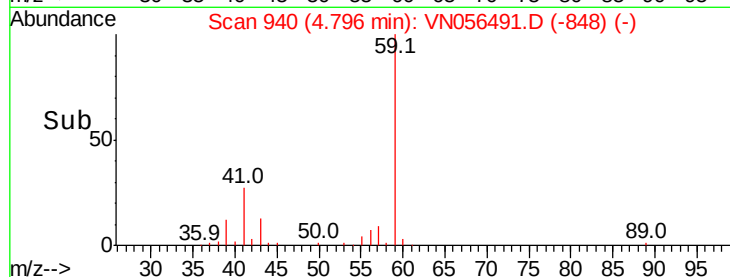
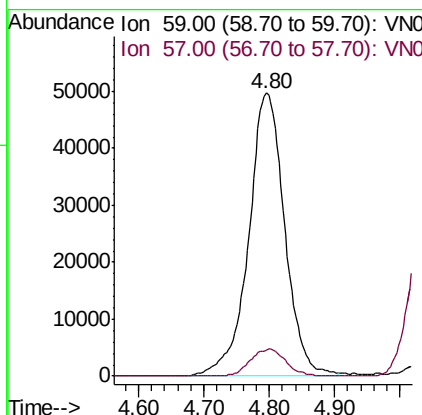
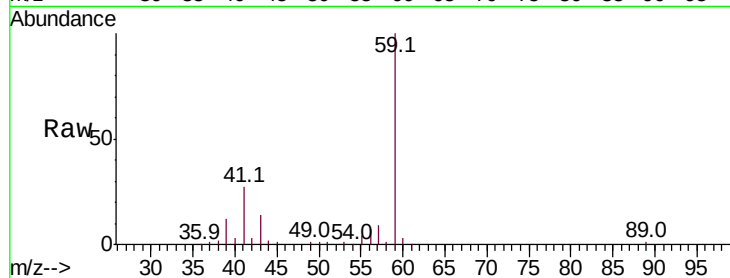
Tert butyl alcohol
 Concen: 295.321 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. -0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	59	Resp	190826
Ion Ratio	100	Lower	Upper
57	9.5	7.6	11.4

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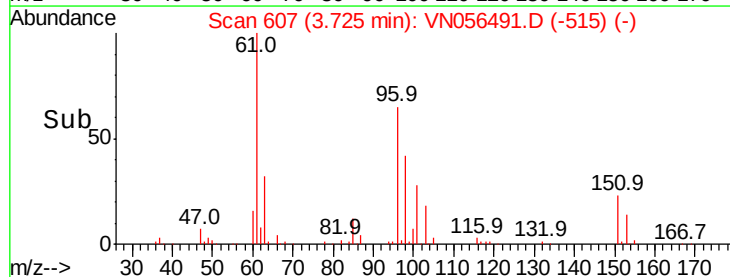
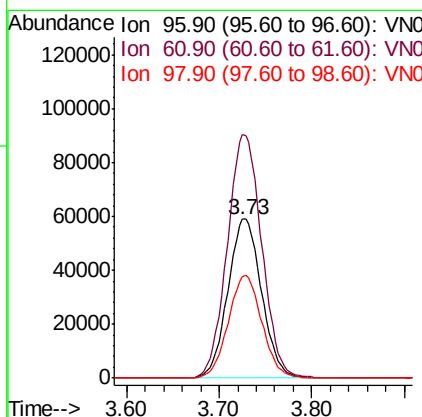
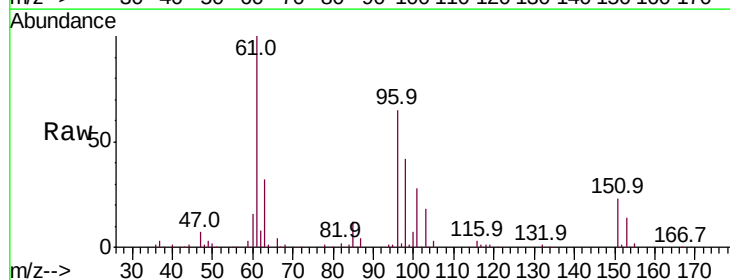
MMDadoda
 6/26/2019 9:28:32 AM

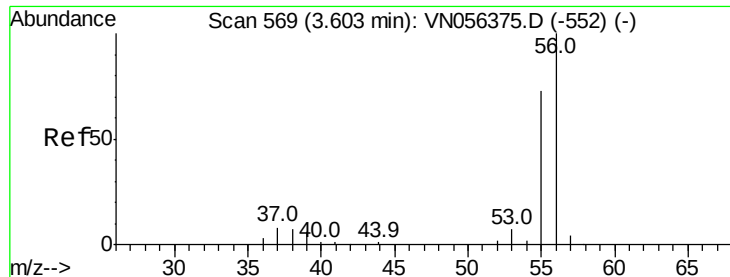


#12

1,1-Dichloroethene
 Concen: 48.719 ug/l
 RT: 3.73 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion	96	Resp	148978
Ion Ratio	100	Lower	Upper
61	153.5	126.6	190.0
98	63.7	51.1	76.7





#13

Acrolein

Concen: 210.098 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 56 Resp: 114419

Ion Ratio Lower Upper

56 100

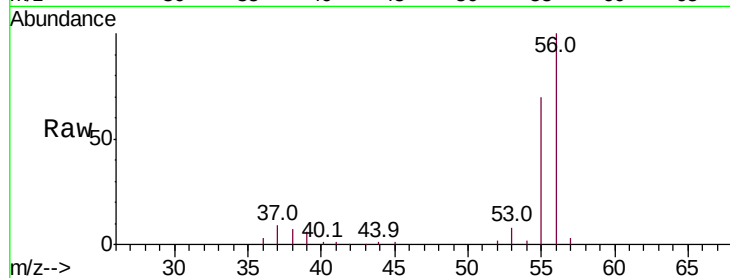
55 71.6 57.1 85.7

Manual Integrations

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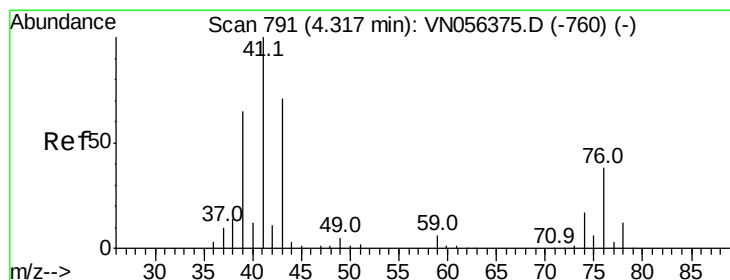
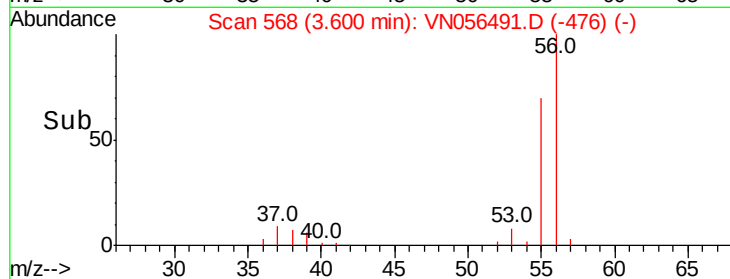
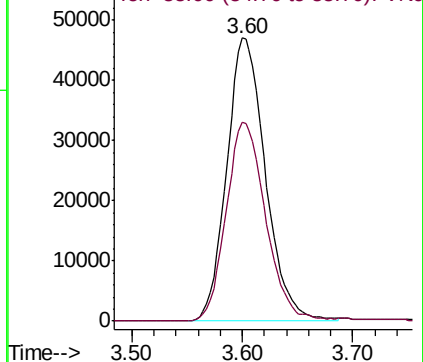
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 55.00 (54.70 to 55.70): VNC



#14

Allyl chloride

Concen: 51.504 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

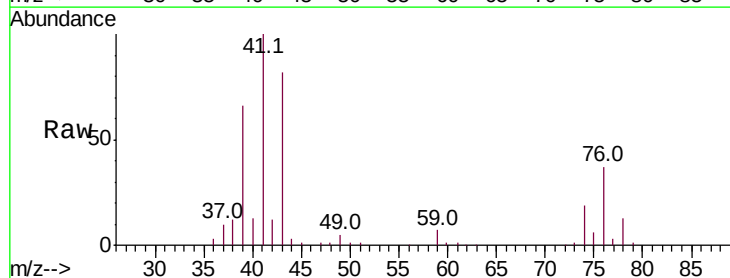
Tgt Ion: 41 Resp: 262169

Ion Ratio Lower Upper

41 100

39 60.1 48.6 73.0

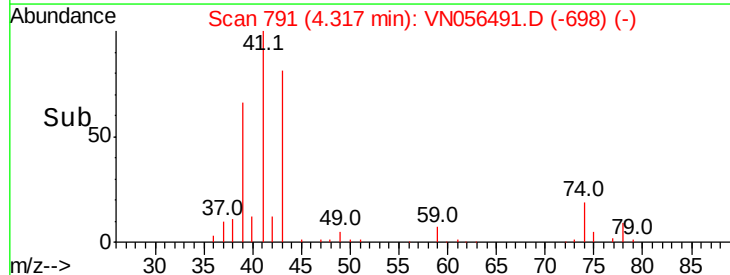
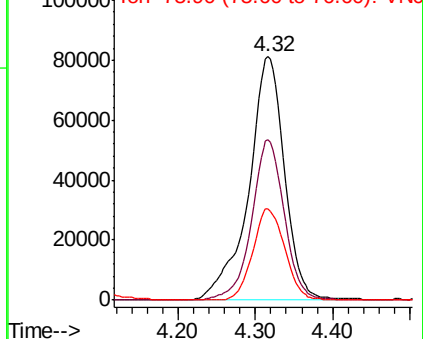
76 33.7 26.6 40.0

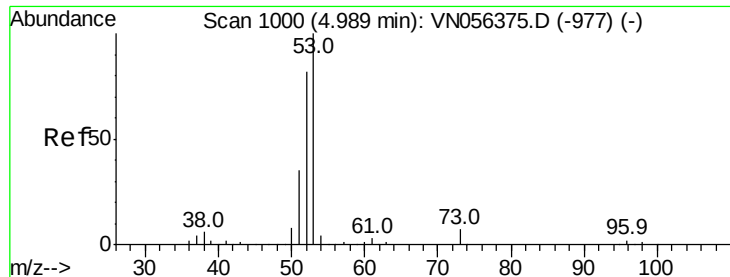


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 75.90 (75.60 to 76.60): VNC





#15

Acrylonitrile

Concen: 272.085 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

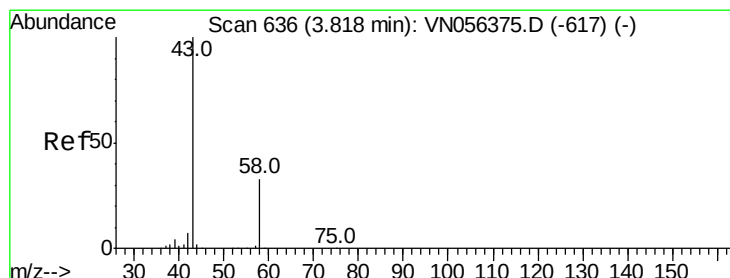
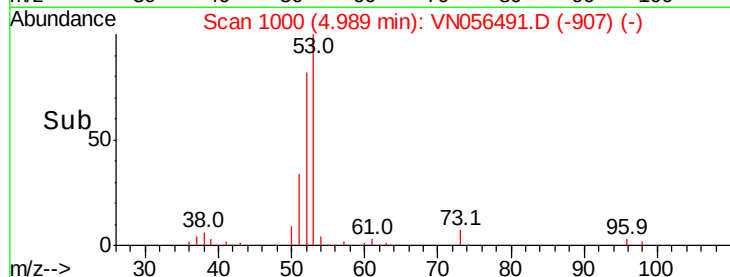
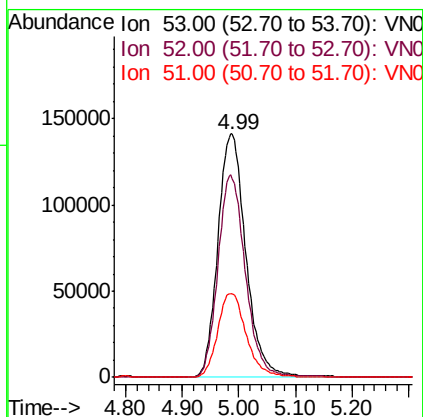
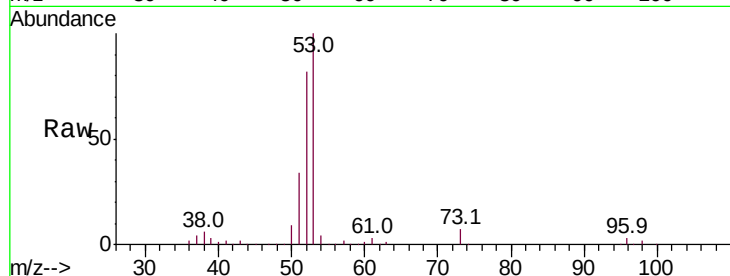
ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:	53	Resp:	486383
Ion Ratio	Lower	Upper	
53	100		
52	81.4	65.9	98.9
51	35.3	28.3	42.5

Manual Integrations
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#16

Acetone

Concen: 196.051 ug/l

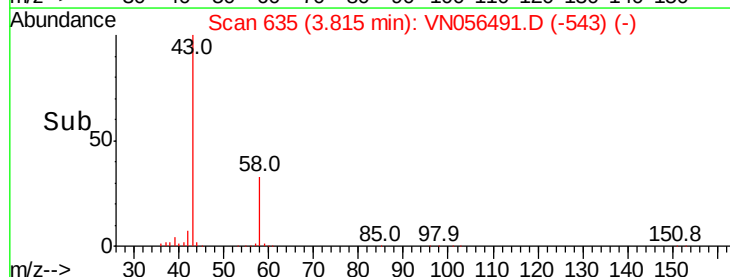
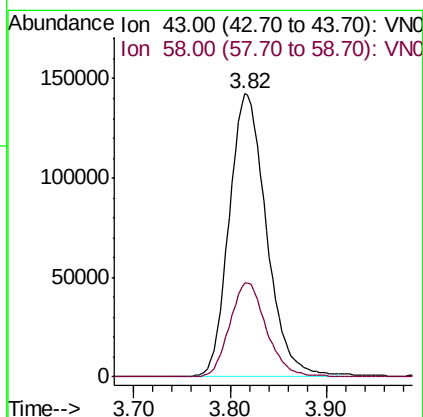
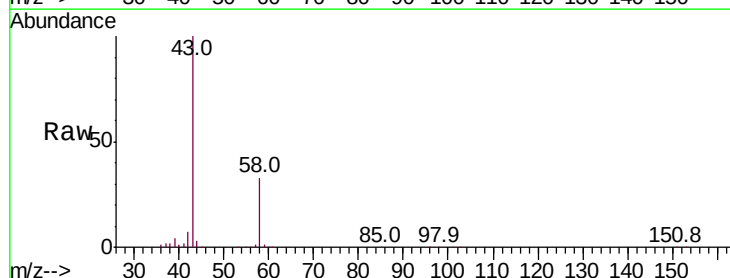
RT: 3.82 min Scan# 635

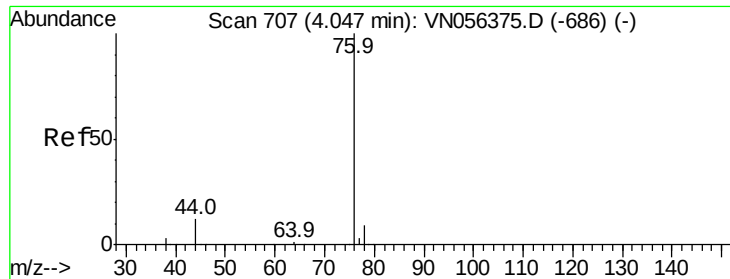
Delta R.T. -0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion:	43	Resp:	376838
Ion Ratio	Lower	Upper	
43	100		
58	33.0	26.4	39.6





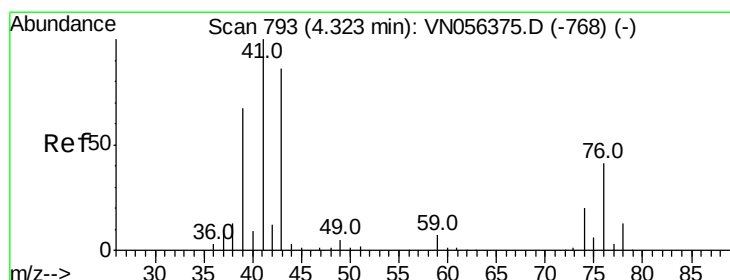
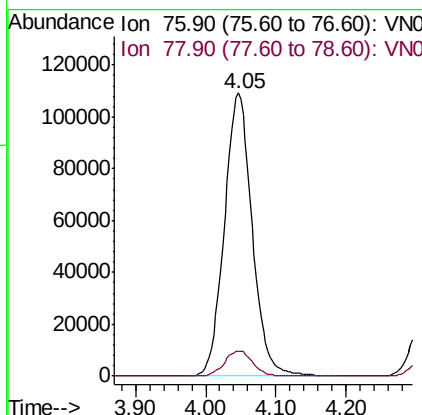
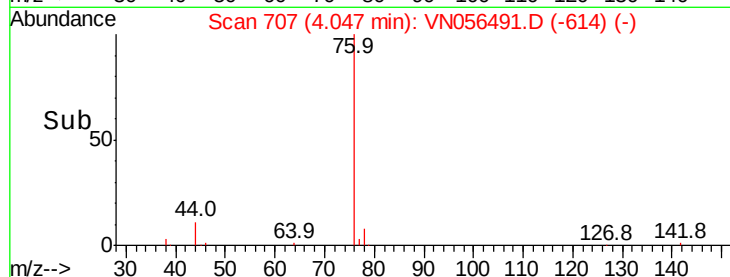
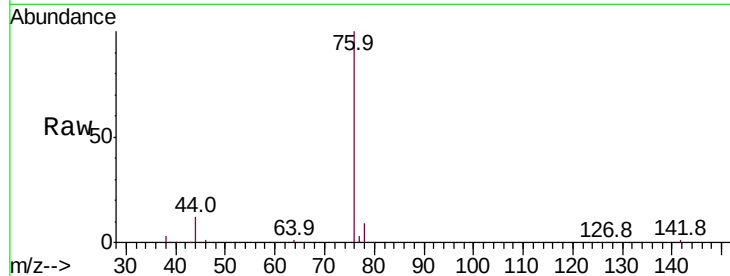
#17
Carbon Disulfide
Concen: 43.185 ug/l
RT: 4.05 min Scan# 707
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.1	10.7

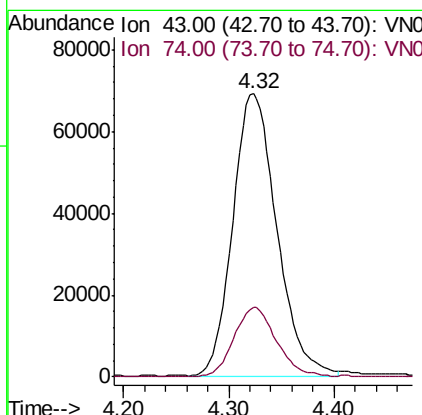
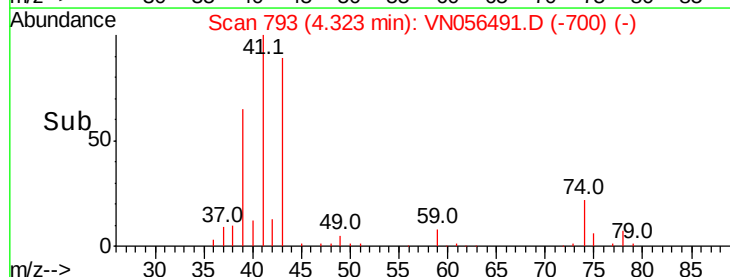
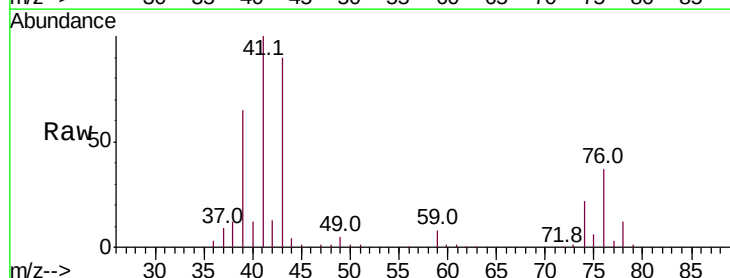
Manual Integrations
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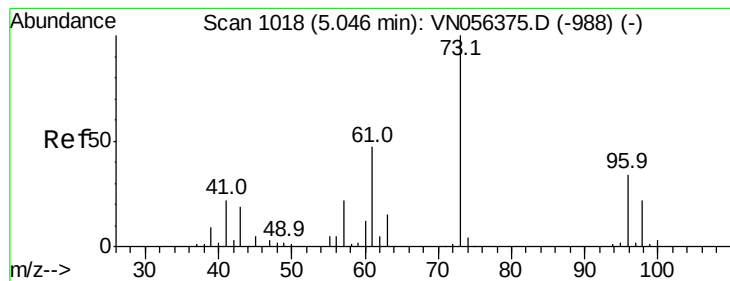
MMDadoda
6/26/2019 9:28:32 AM



#18
Methyl Acetate
Concen: 53.108 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.9	19.2	28.8





#19

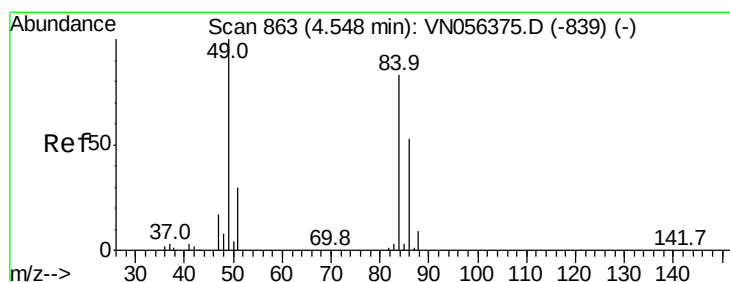
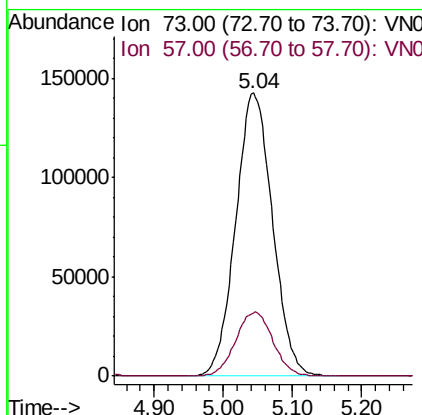
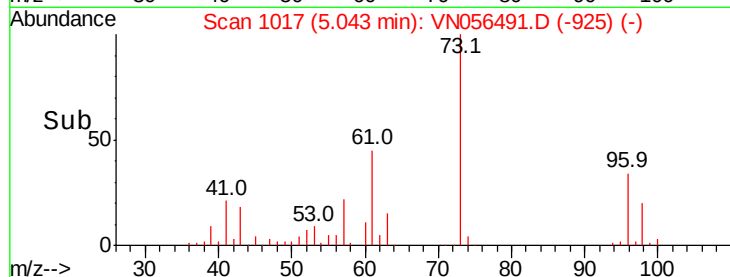
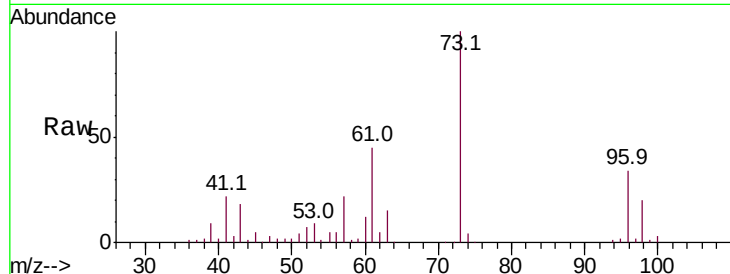
Methyl tert-butyl Ether
 Concen: 52.139 ug/l
 RT: 5.04 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion: 73 Resp: 527566
 Ion Ratio Lower Upper
 73 100
 57 22.5 17.9 26.9

Manual Integrations
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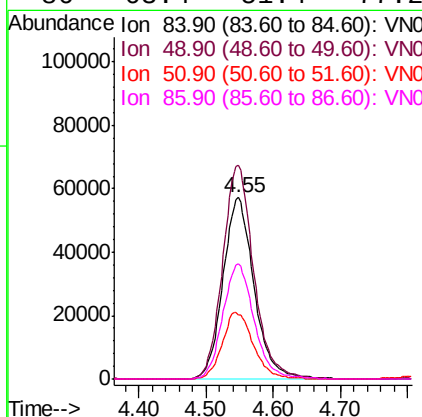
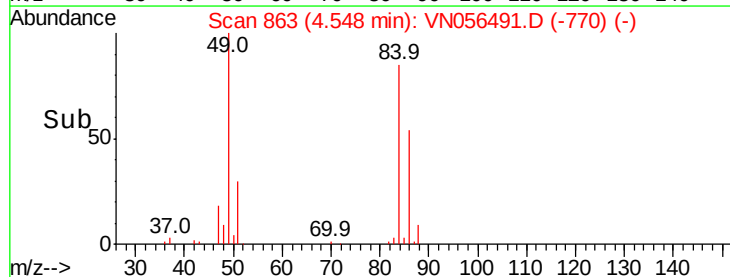
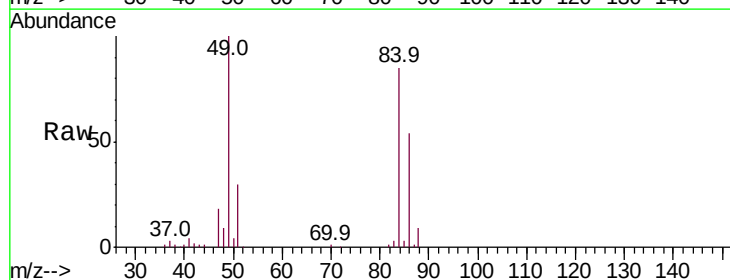
MMDadoda
 6/26/2019 9:28:32 AM

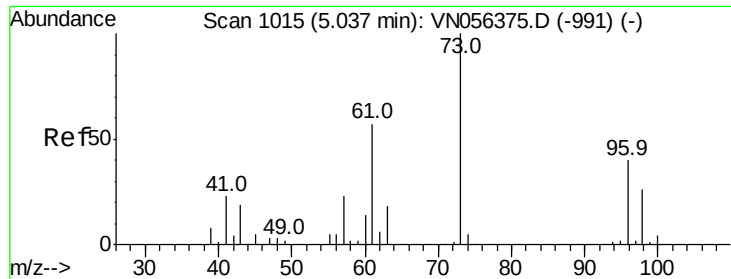


#20

Methylene Chloride
 Concen: 50.684 ug/l
 RT: 4.55 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion: 84 Resp: 183611
 Ion Ratio Lower Upper
 84 100
 49 117.9 96.4 144.6
 51 35.7 28.6 43.0
 86 63.4 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 49.248 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 96 Resp: 162365

Ion Ratio Lower Upper

96 100

61 134.3 113.0 169.6

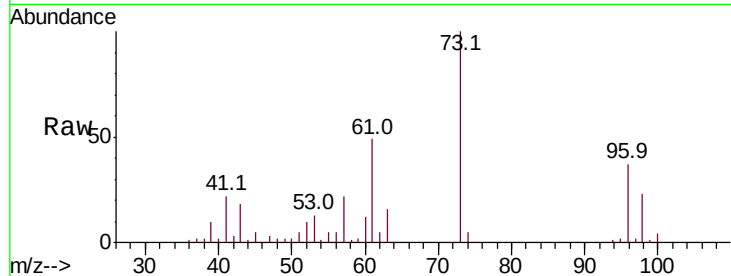
98 63.3 52.2 78.2

Manual Integrations

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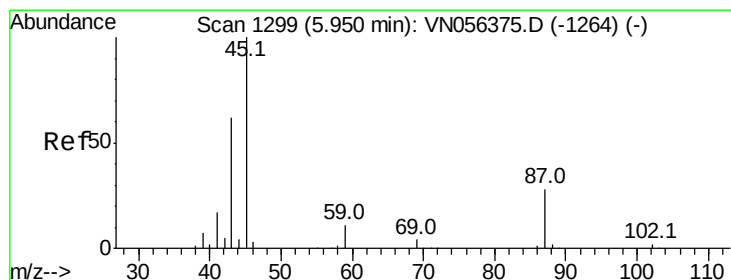
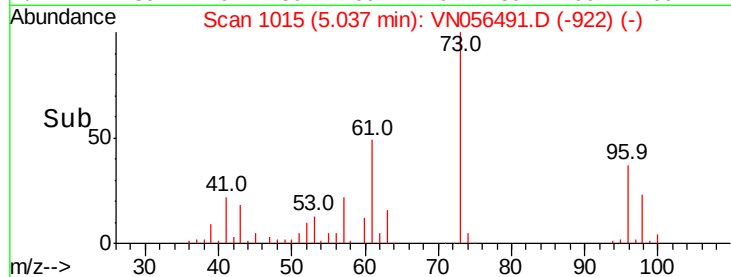
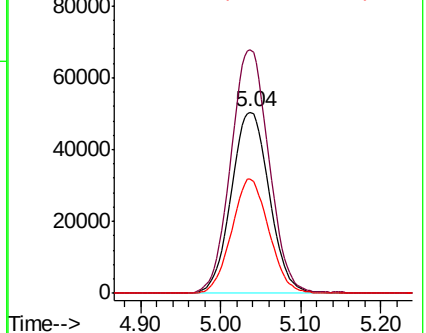
6/26/2019 9:28:32 AM



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 51.987 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion: 45 Resp: 555755

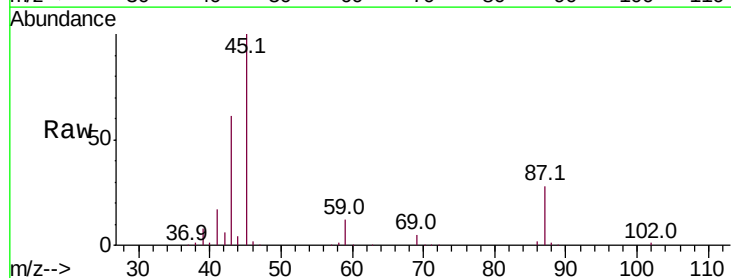
Ion Ratio Lower Upper

45 100

43 59.8 50.4 75.6

87 27.6 23.0 34.4

59 11.4 9.1 13.7

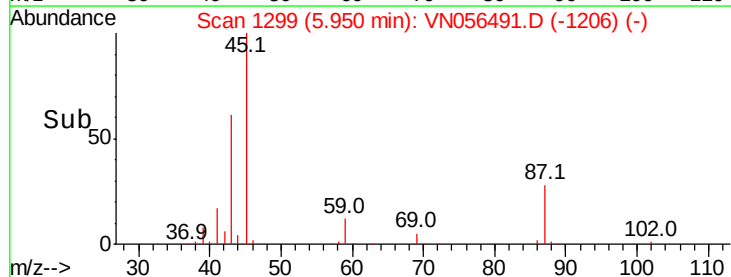
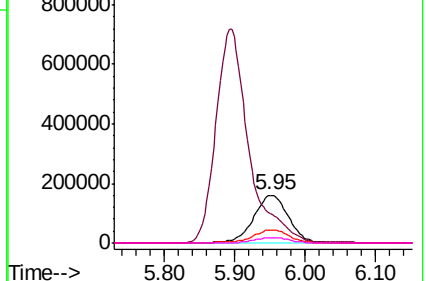


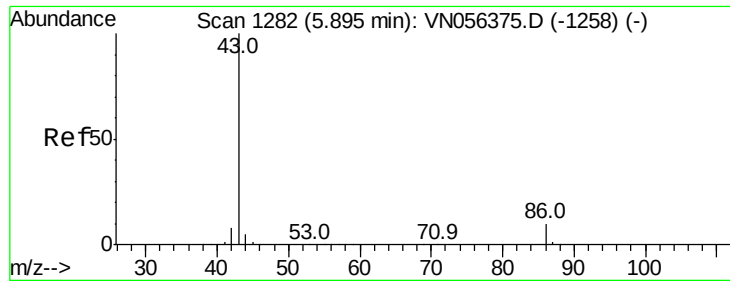
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 277.689 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 43 Resp: 2341411

Ion Ratio Lower Upper

43 100

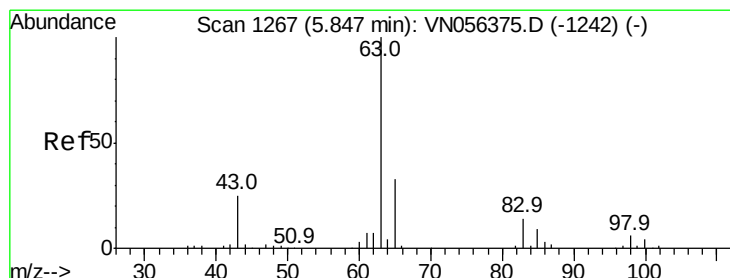
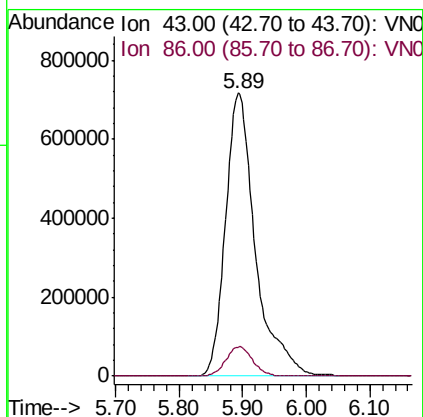
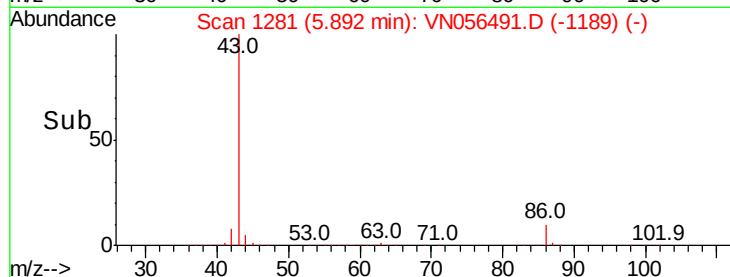
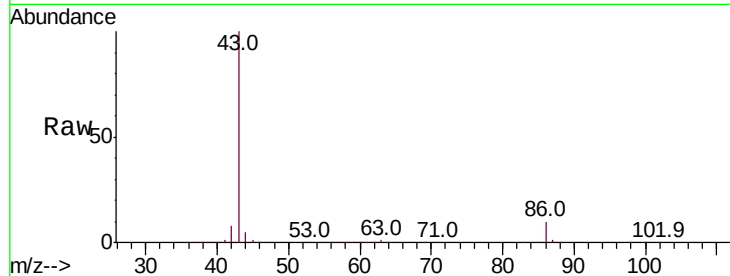
86 10.3 8.3 12.5

Manual Integrations

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MMDadoda

6/26/2019 9:28:32 AM



#24

1,1-Dichloroethane

Concen: 51.007 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

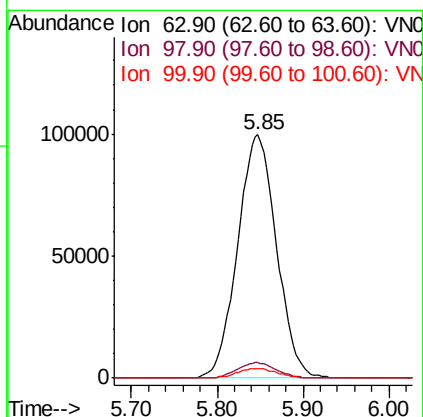
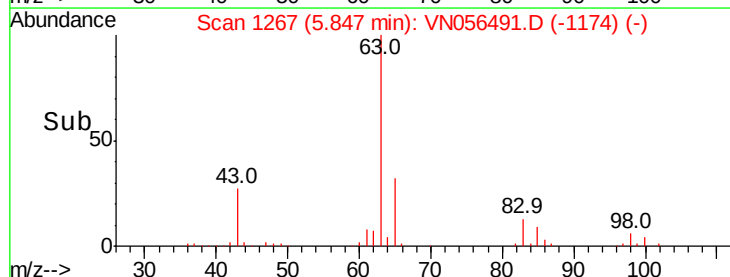
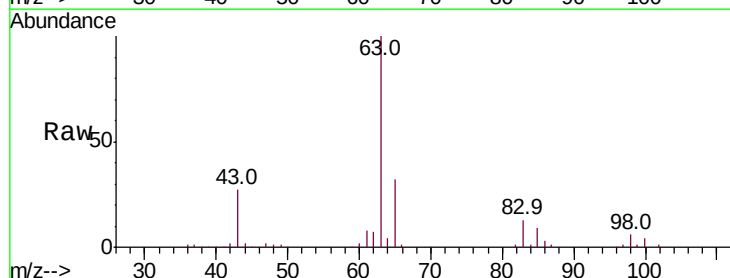
Tgt Ion: 63 Resp: 313010

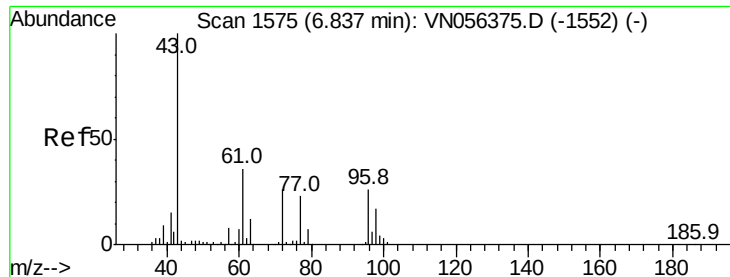
Ion Ratio Lower Upper

63 100

98 6.2 3.2 9.6

100 3.9 2.1 6.5





#25

2-Butanone

Concen: 252.617 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 43 Resp: 642650

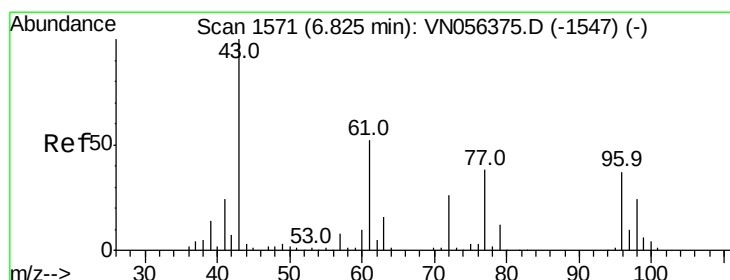
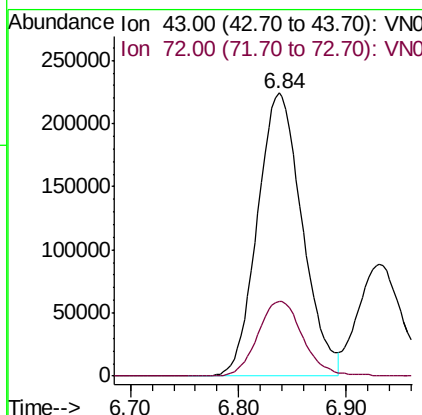
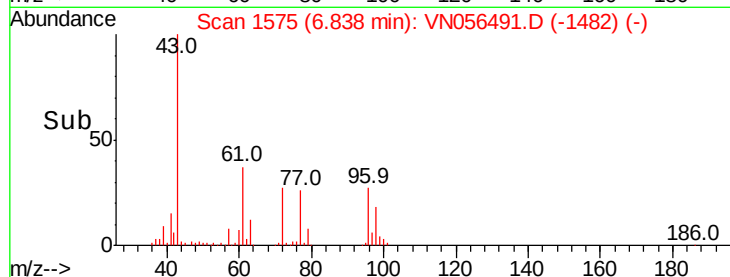
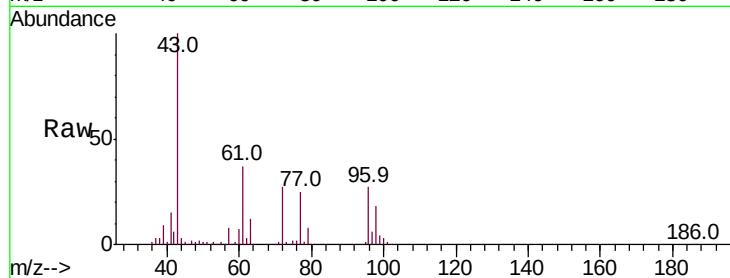
Ion Ratio Lower Upper

43 100

72 26.6 20.6 31.0

Manual Integrations
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#26

2,2-Dichloropropane

Concen: 52.755 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN056491.D

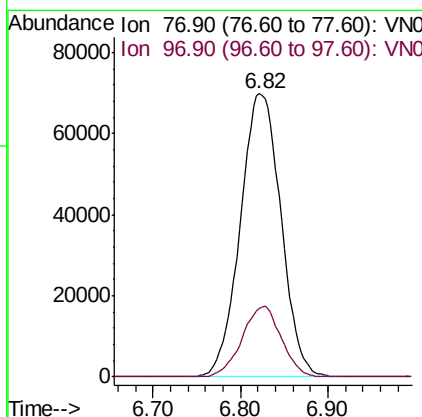
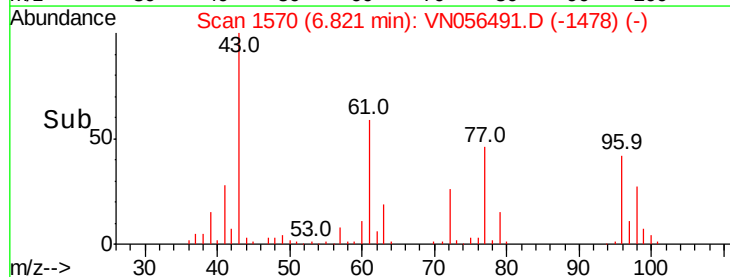
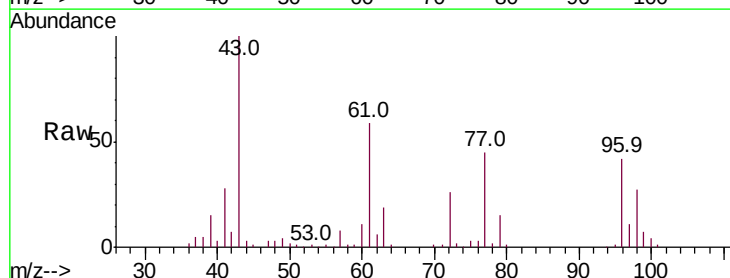
Acq: 25 Jun 2019 16:58

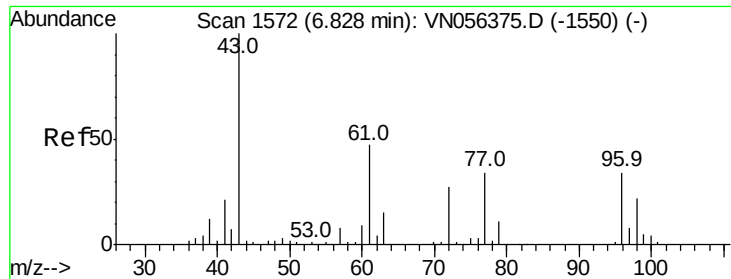
Tgt Ion: 77 Resp: 225159

Ion Ratio Lower Upper

77 100

97 24.1 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 51.729 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

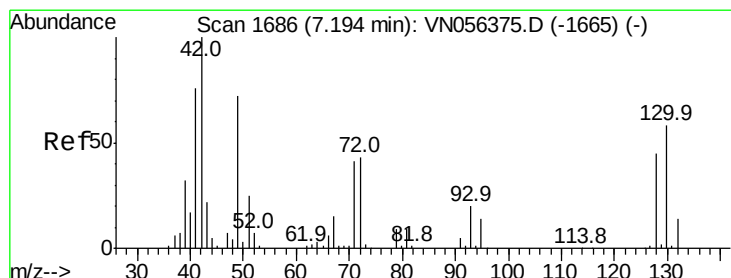
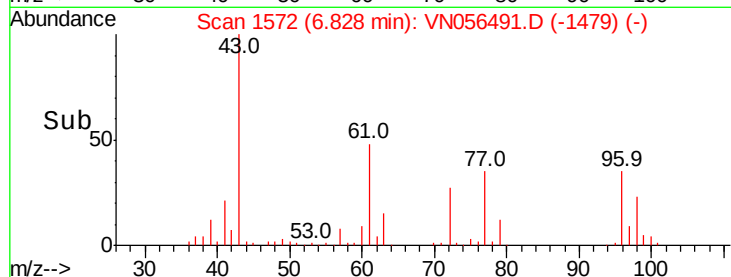
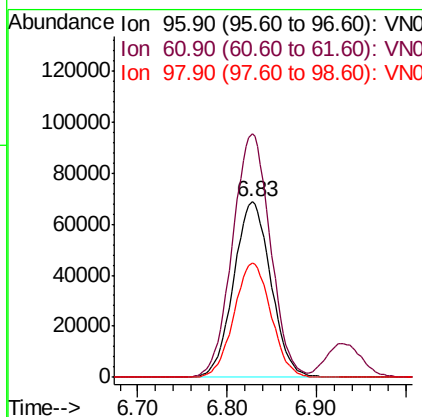
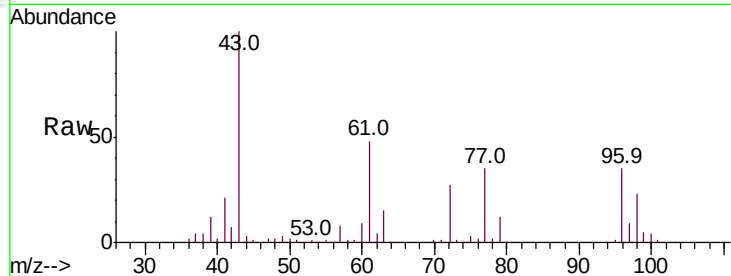
ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:	96	Resp:	199530
Ion	Ratio	Lower	Upper
96	100		
61	140.2	0.0	279.8
98	64.8	0.0	130.0

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#28

Bromochloromethane

Concen: 51.687 ug/l

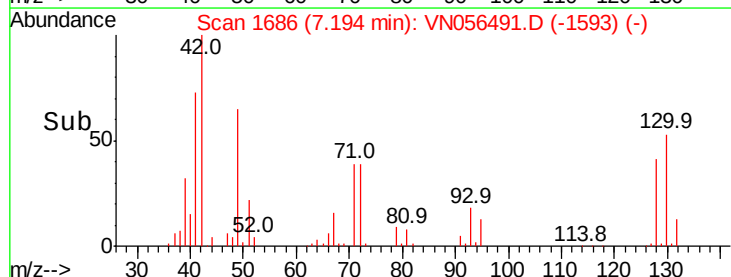
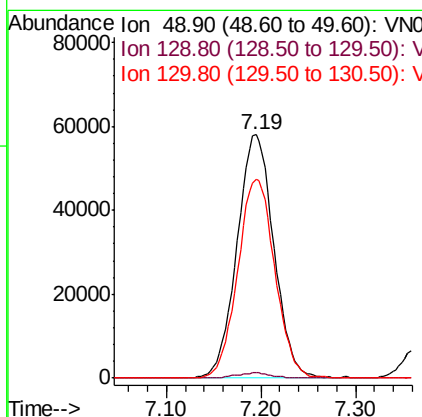
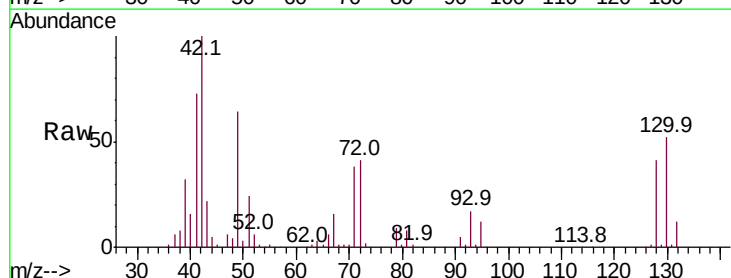
RT: 7.19 min Scan# 1686

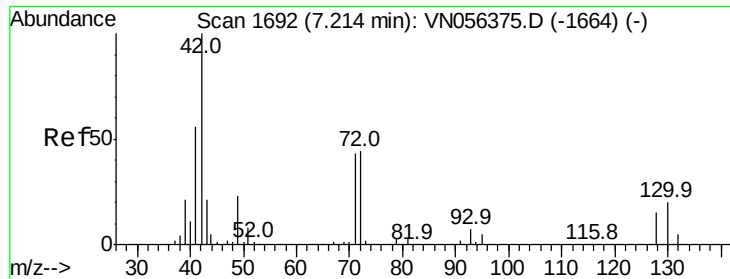
Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion:	49	Resp:	156887
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	82.3	64.9	97.3





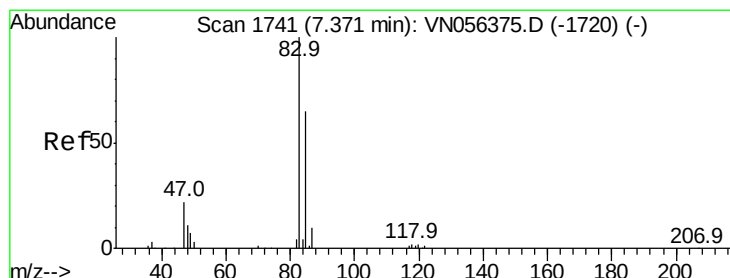
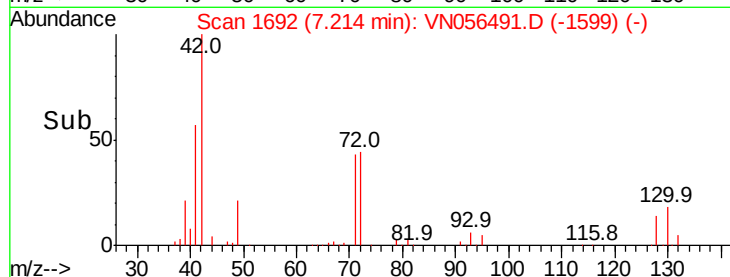
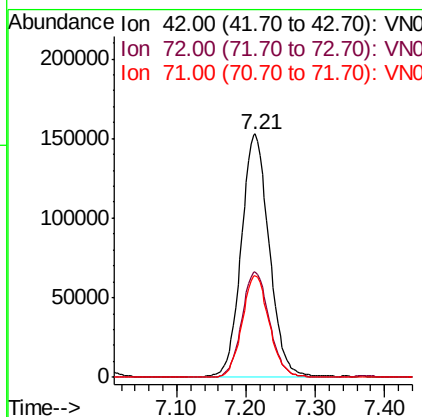
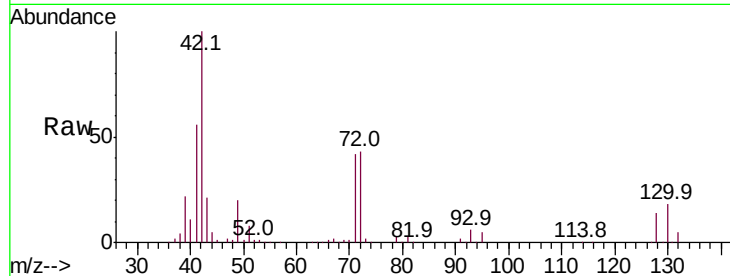
#29
Tetrahydrofuran
Concen: 276.853 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.5	34.7	52.1
71	40.5	33.0	49.6

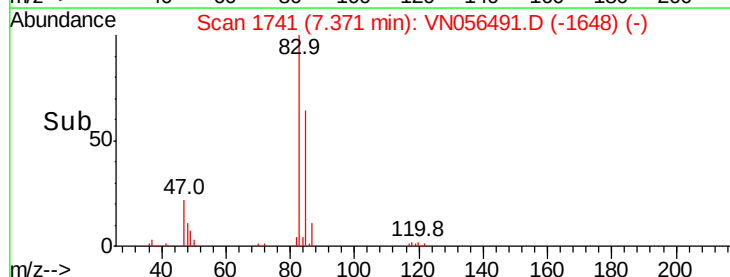
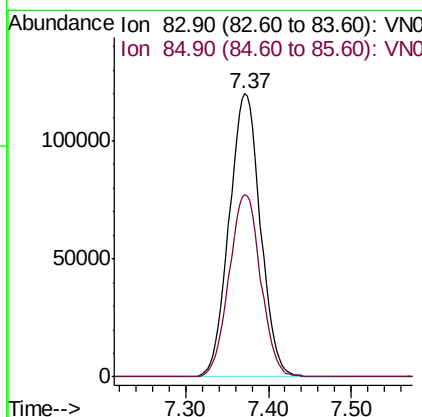
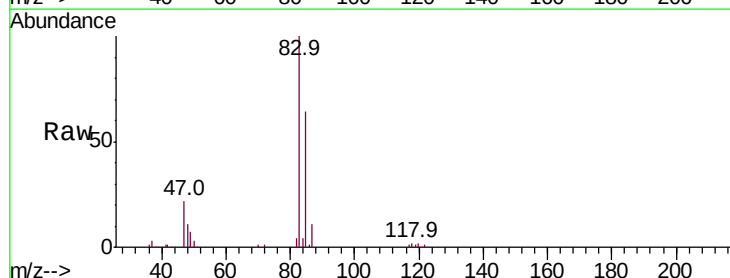
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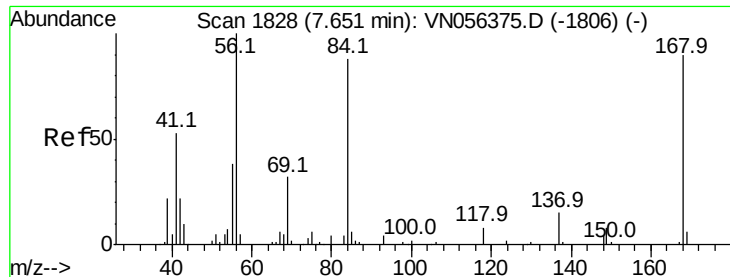
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#30
Chloroform
Concen: 52.022 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.3	78.5





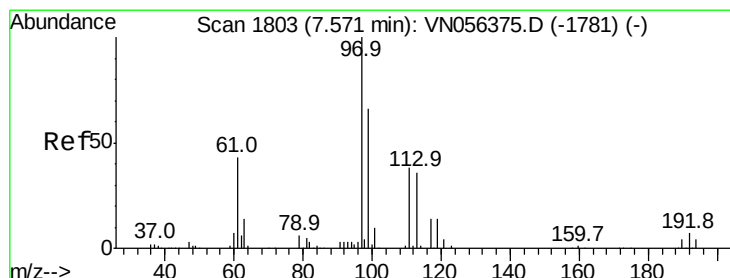
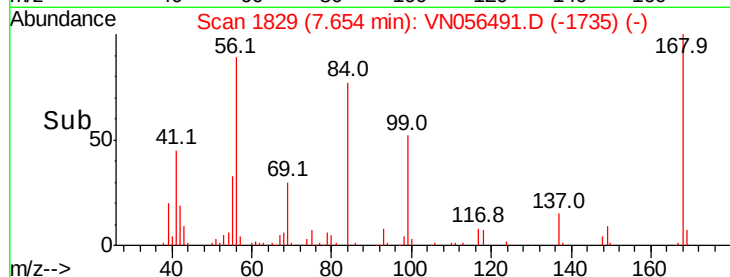
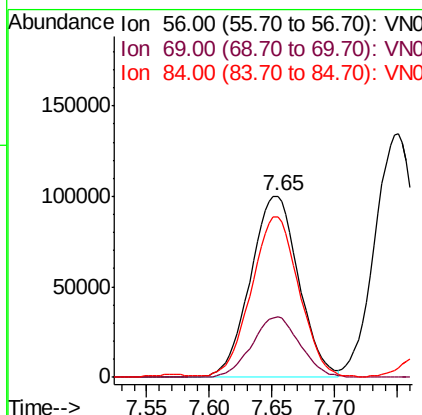
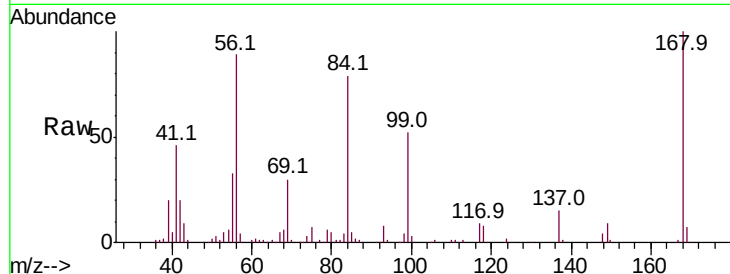
#31
Cyclohexane
Concen: 45.267 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.4	25.8	38.6
84	87.8	69.4	104.0

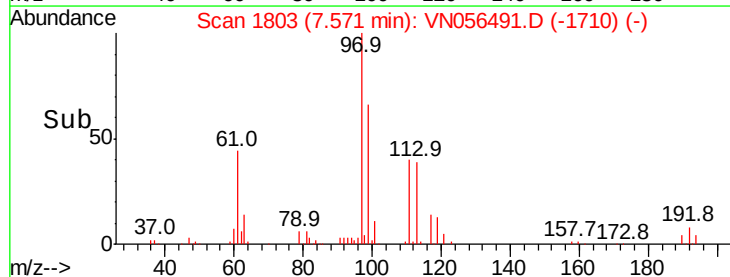
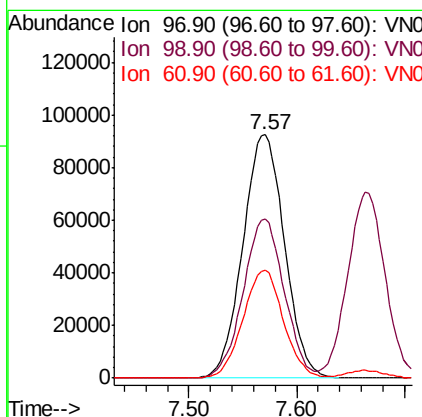
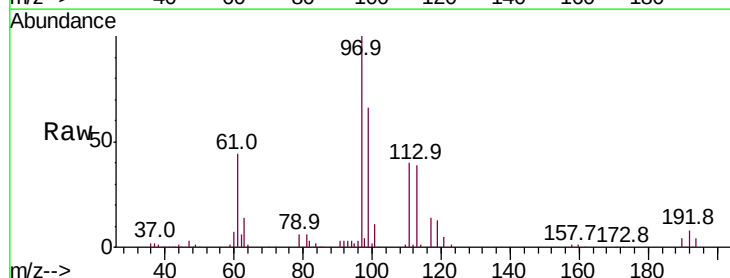
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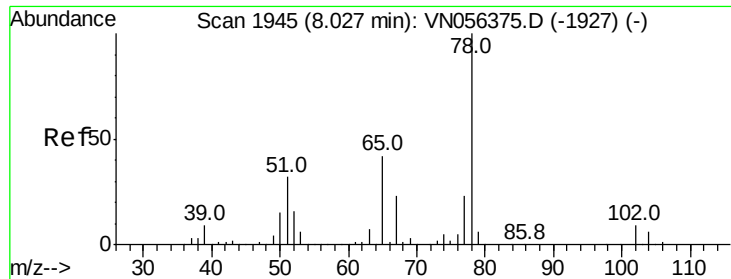
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#32
1,1,1-Trichloroethane
Concen: 51.778 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.8	77.6
61	43.1	33.9	50.9





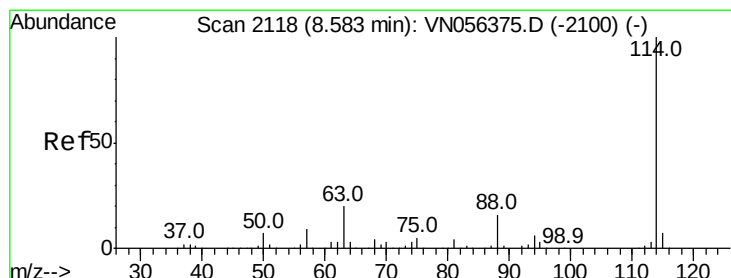
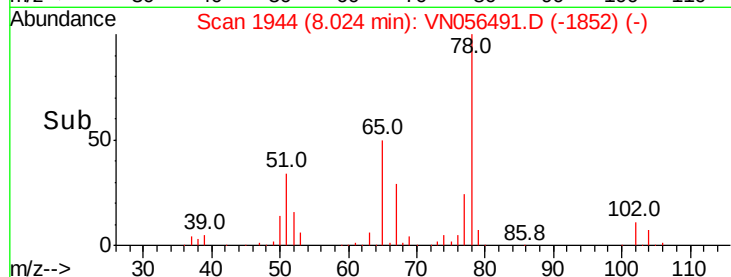
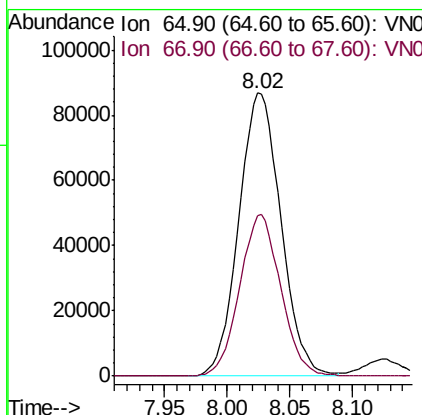
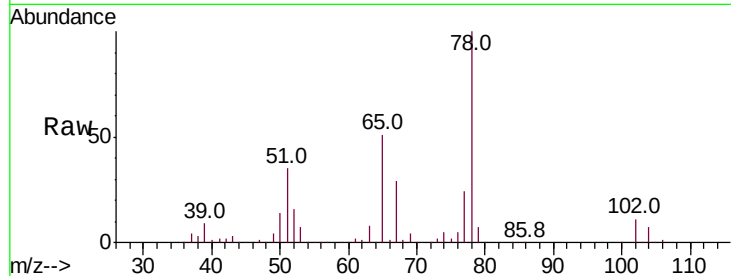
#33
 1,2-Dichloroethane-d4
 Concen: 52.860 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	Ratio	Resp	Lower	Upper
65	100	202798		
67	55.8	0.0	109.0	

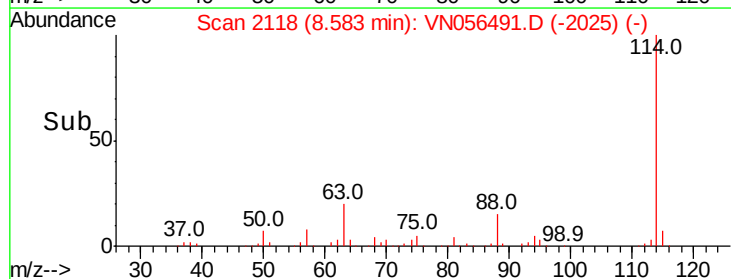
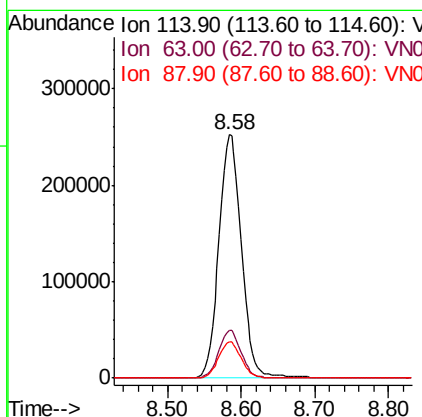
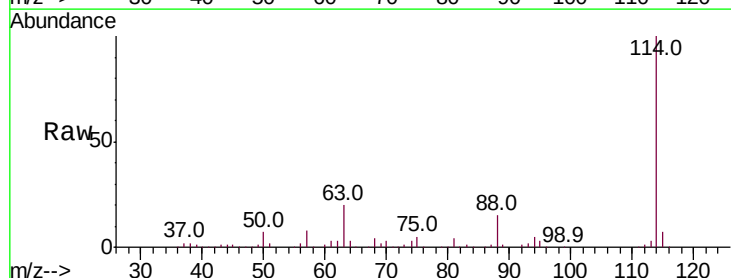
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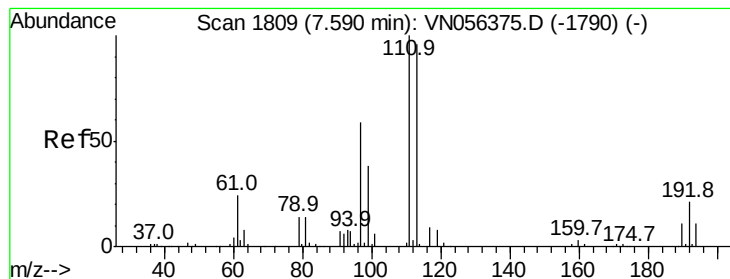
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	539030		
63	19.7	0.0	39.2	
88	15.0	0.0	31.4	





#35

Dibromofluoromethane

Concen: 53.382 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

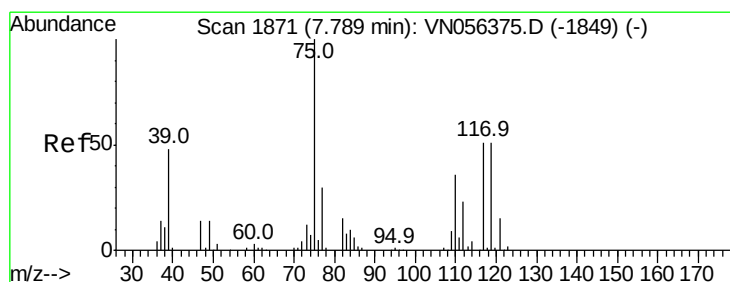
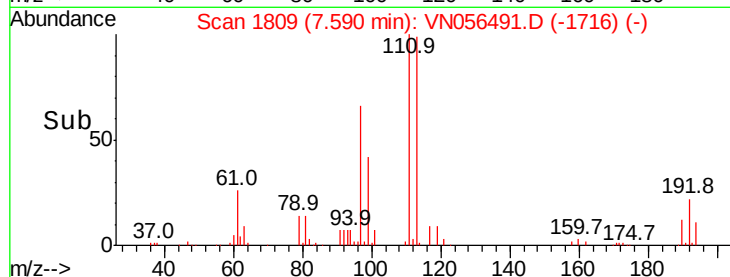
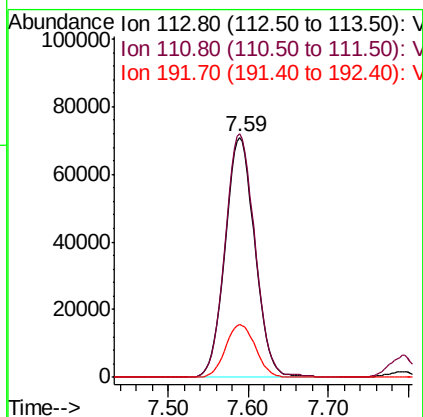
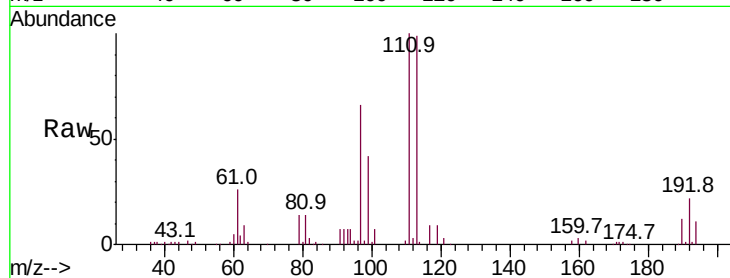
ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:	113	Resp:	179505
Ion Ratio	Lower	Upper	
113	100		
111	101.6	82.9	124.3
192	22.1	17.7	26.5

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 46.978 ug/l

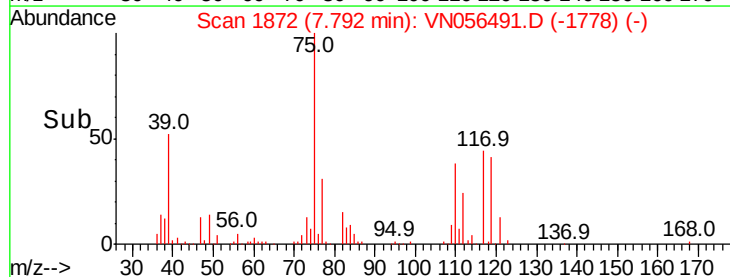
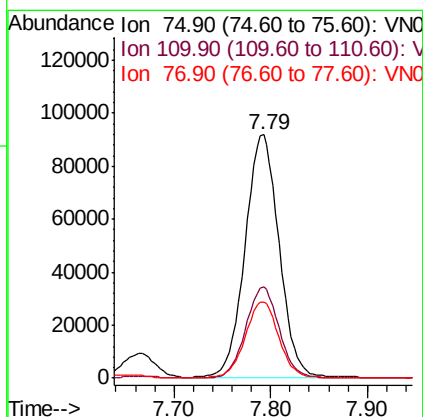
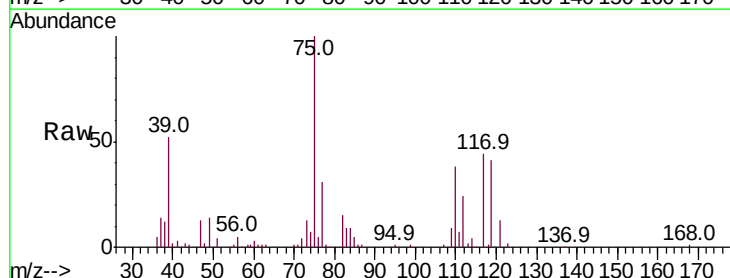
RT: 7.79 min Scan# 1872

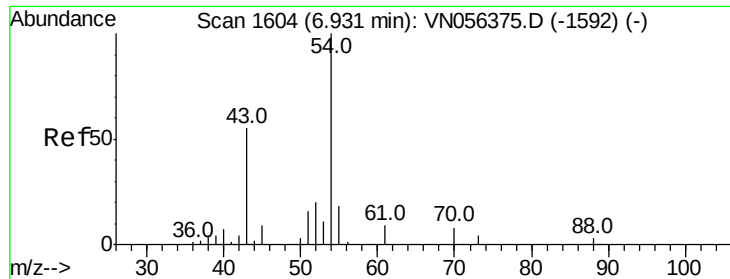
Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion:	75	Resp:	222883
Ion Ratio	Lower	Upper	
75	100		
110	37.0	18.1	54.3
77	31.4	24.6	36.8





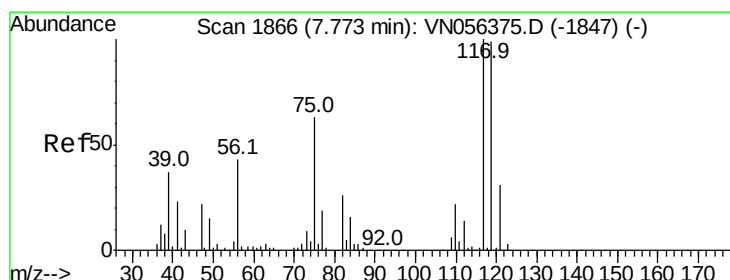
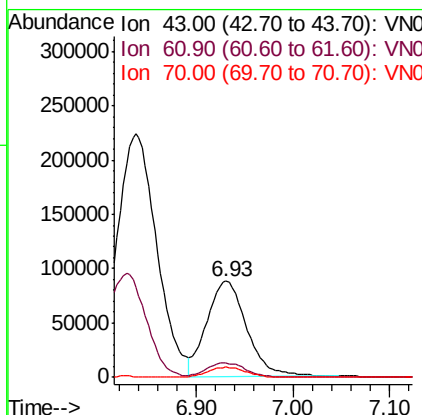
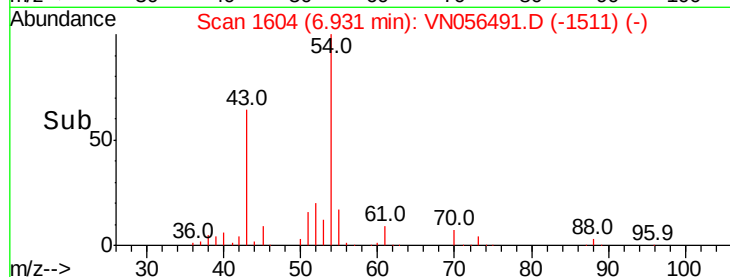
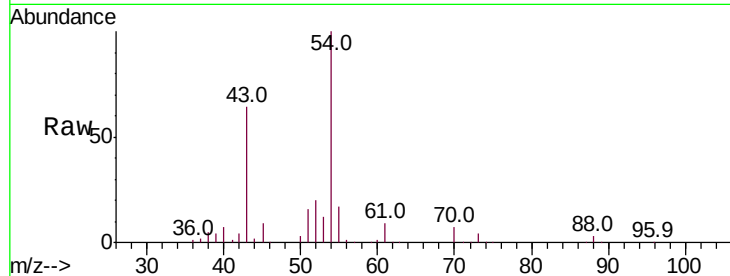
#37
Ethyl Acetate
Concen: 53.963 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.1	16.7
70	10.3	8.3	12.5

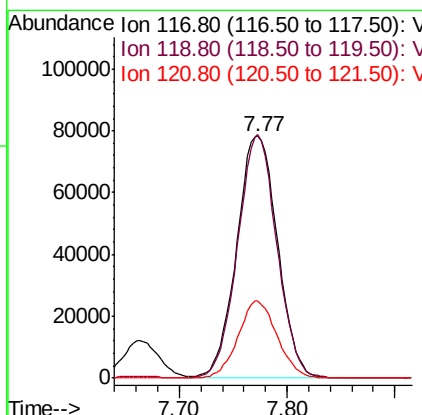
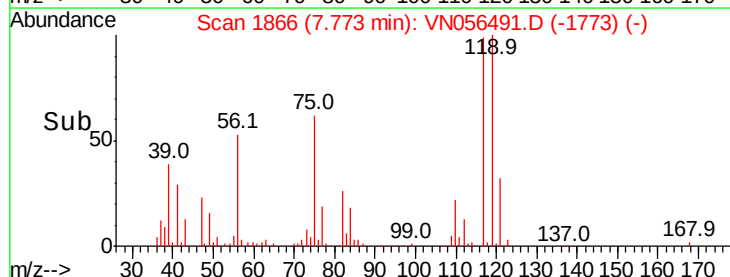
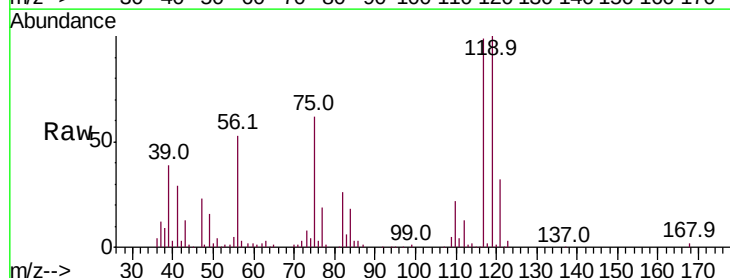
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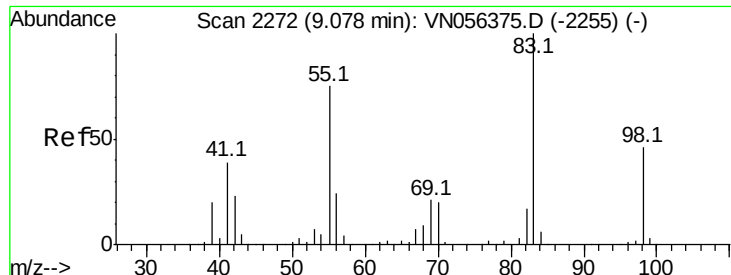
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#38
Carbon Tetrachloride
Concen: 49.521 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.9	79.1	118.7
121	31.8	24.8	37.2





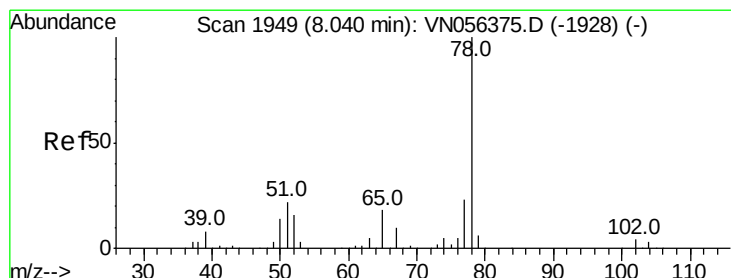
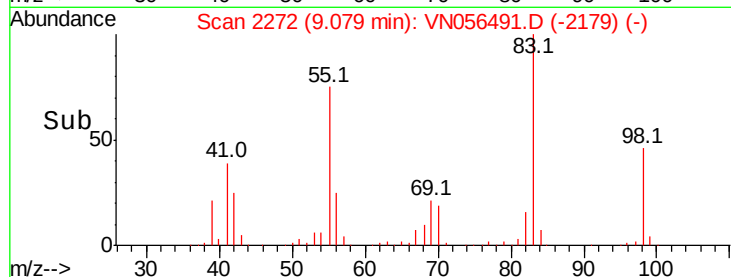
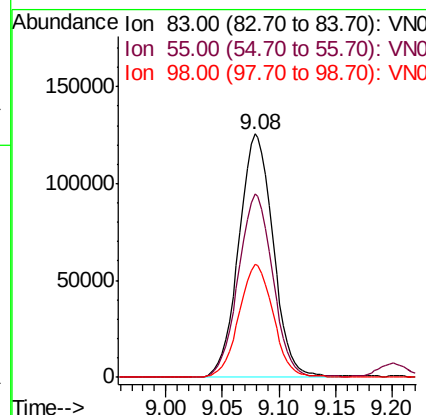
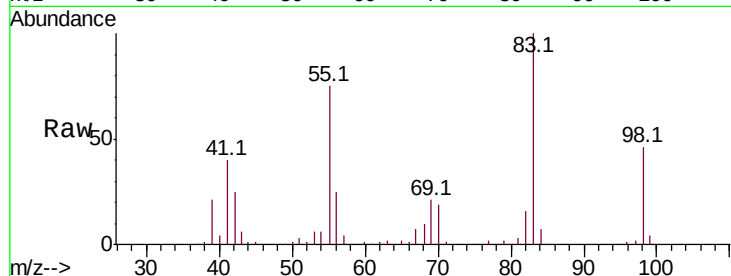
#39
Methylvlcyclohexane
Concen: 45.463 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.4	60.0	90.0
98	46.3	36.6	54.8

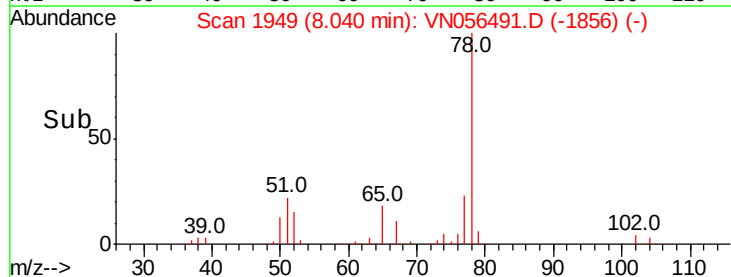
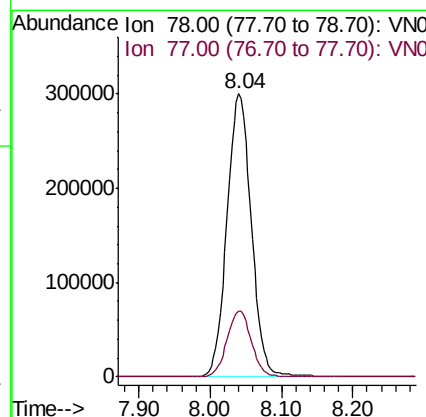
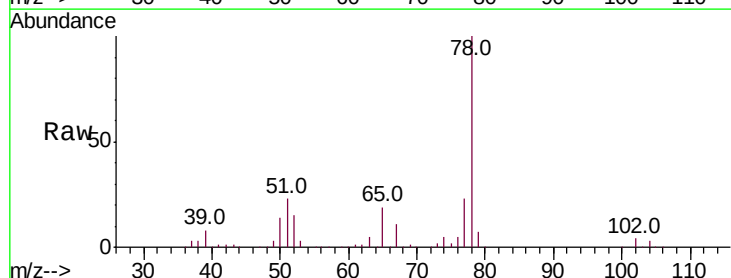
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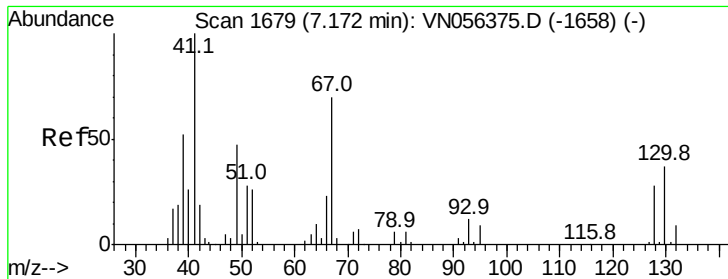
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#40
Benzene
Concen: 48.895 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5





#41

Methacrylonitrile

Concen: 46.798 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

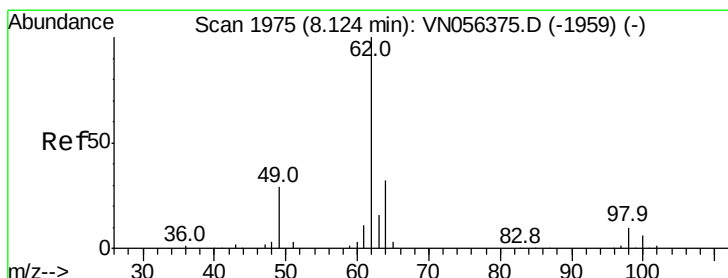
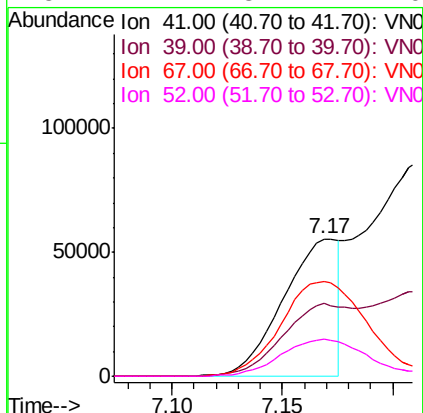
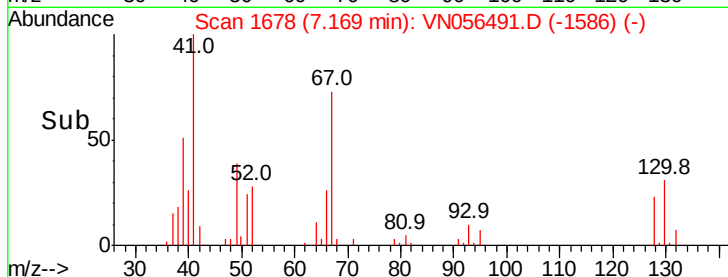
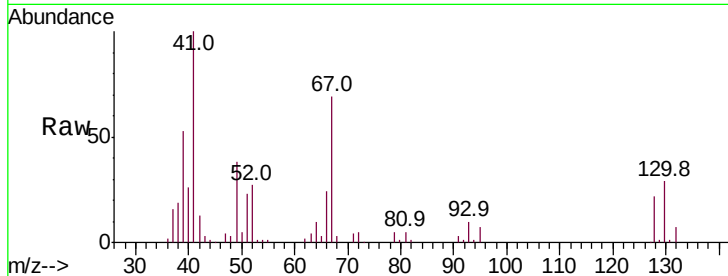
ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:	41	Resp:	96352
Ion Ratio	Lower	Upper	
41	100		
39	63.9	55.3	82.9
67	110.0	79.2	118.8
52	42.7	31.4	47.0

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 48.584 ug/l

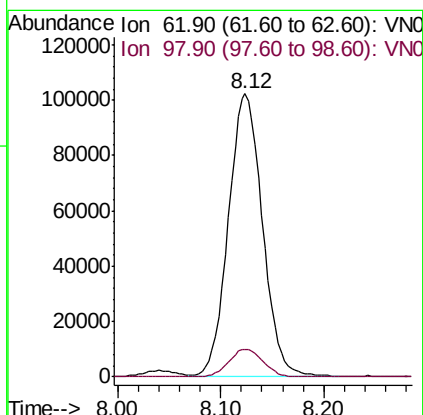
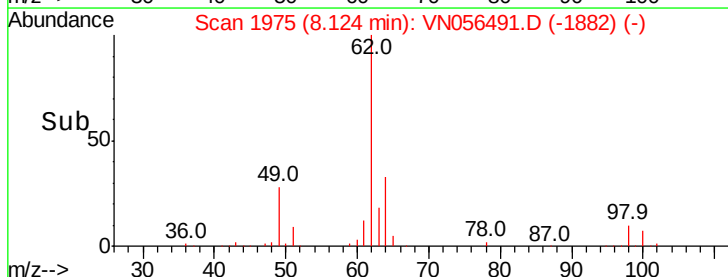
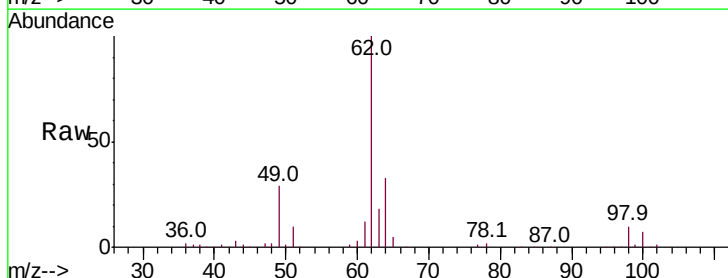
RT: 8.12 min Scan# 1975

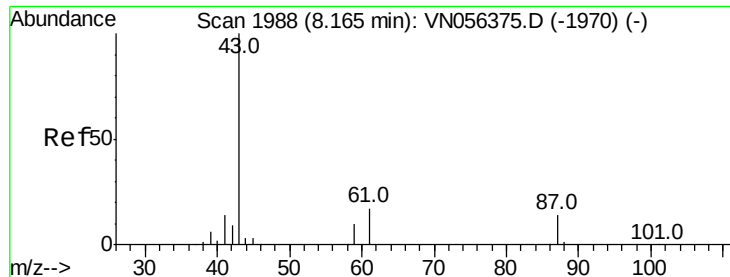
Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion:	62	Resp:	233993
Ion Ratio	Lower	Upper	
62	100		
98	9.9	0.0	19.4





#43

Isopropyl Acetate

Concen: 57.030 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

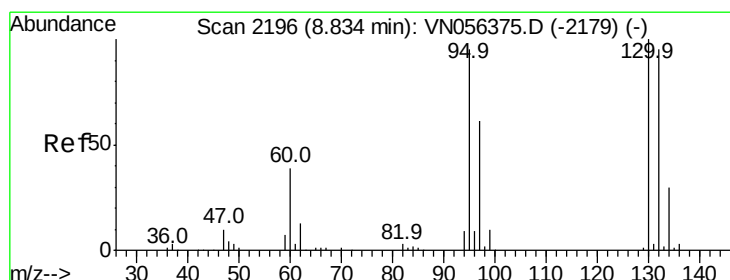
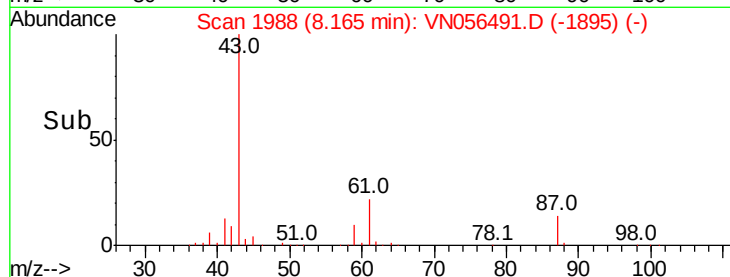
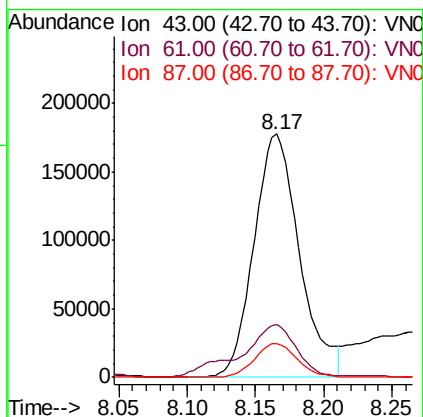
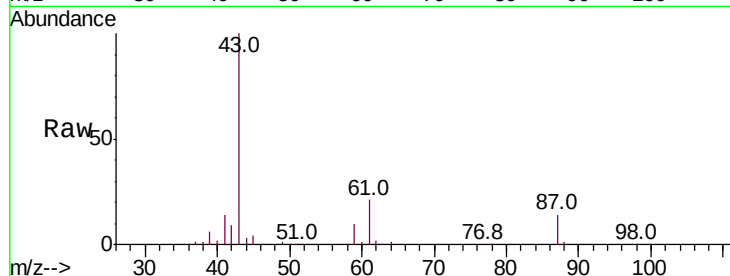
ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:	43	Resp:	410019
Ion	Ratio	Lower	Upper
43	100		
61	26.2	22.0	33.0
87	13.1	11.0	16.4

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#44

Trichloroethene

Concen: 48.323 ug/l

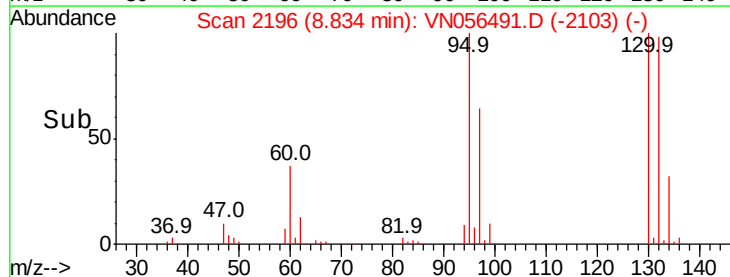
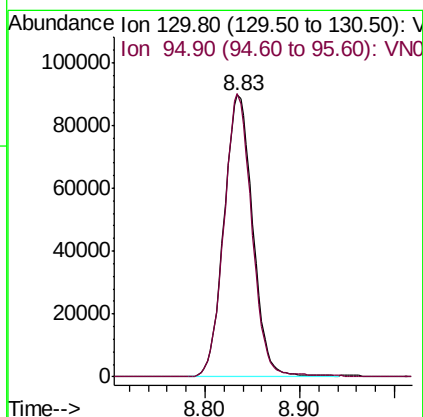
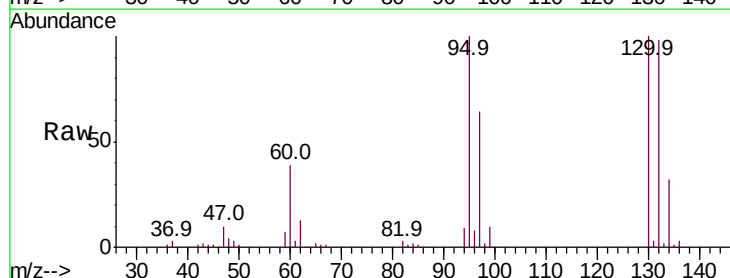
RT: 8.83 min Scan# 2196

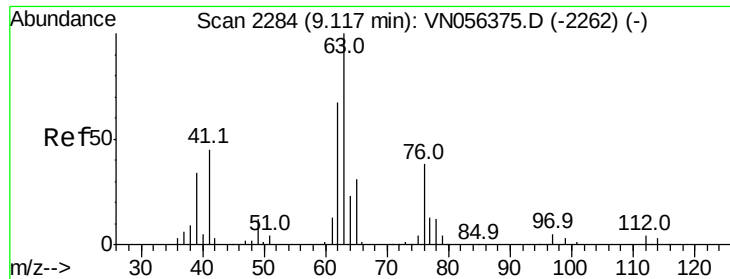
Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion:	130	Resp:	189968
Ion	Ratio	Lower	Upper
130	100		
95	100.5	0.0	191.0





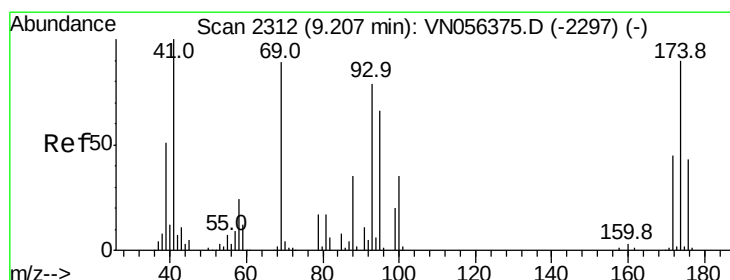
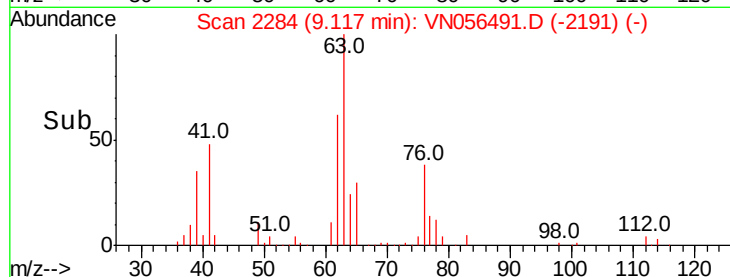
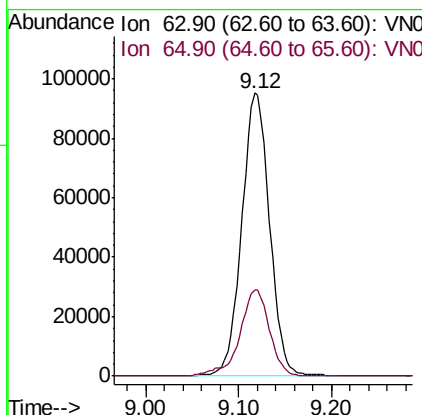
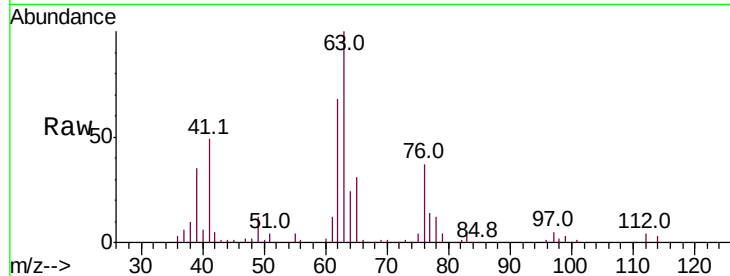
#45
 1,2-Dichloropropane
 Concen: 50.801 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion: 63 Resp: 198274
 Ion Ratio Lower Upper
 63 100
 65 30.7 25.0 37.6

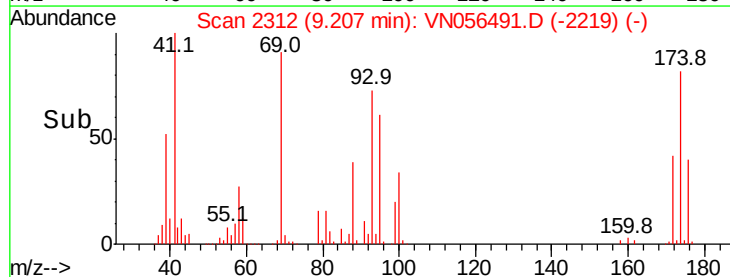
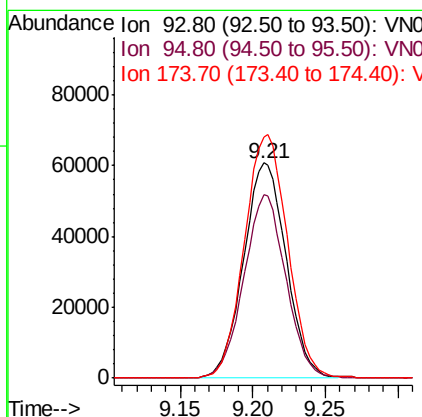
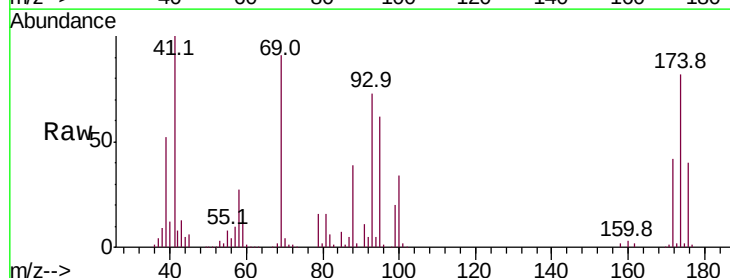
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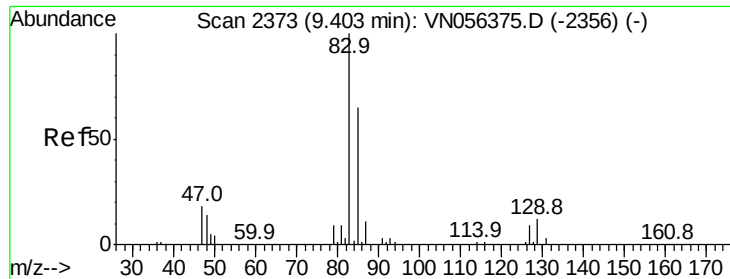
MMDadoda
 6/26/2019 9:28:32 AM



#46
 Dibromomethane
 Concen: 50.886 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion: 93 Resp: 124254
 Ion Ratio Lower Upper
 93 100
 95 84.0 66.2 99.2
 174 115.0 90.8 136.2





#47

Bromodichloromethane

Concen: 53.476 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

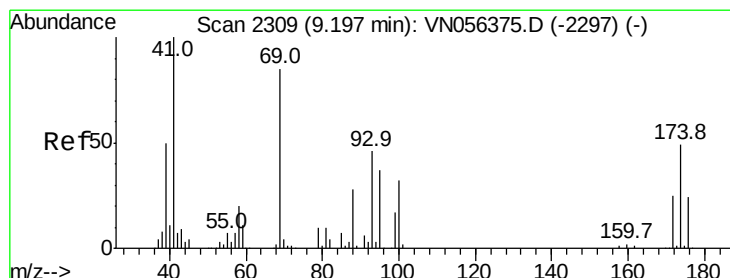
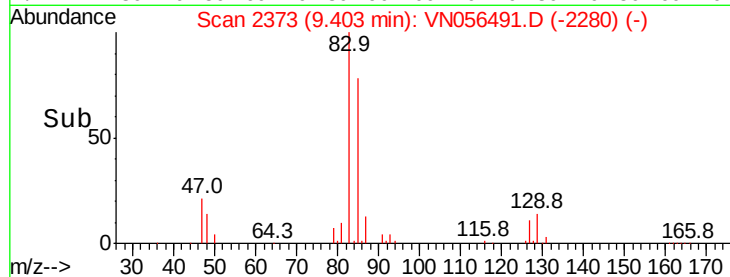
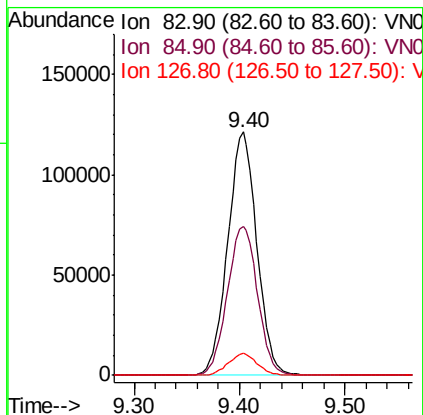
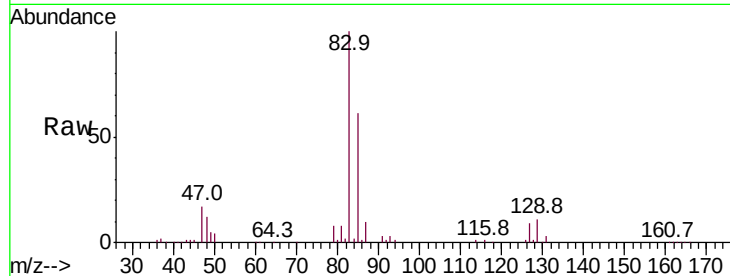
ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:	83	Resp:	231592
Ion Ratio	Lower	Upper	
83	100		
85	61.3	52.2	78.4
127	8.9	7.3	10.9

Manual Integrations
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#48

Methyl methacrylate

Concen: 51.774 ug/l

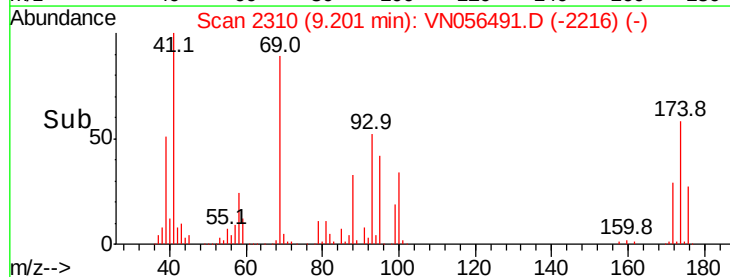
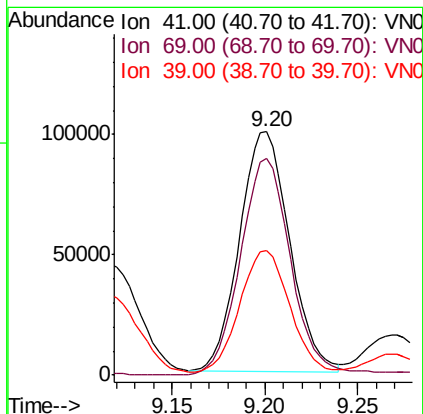
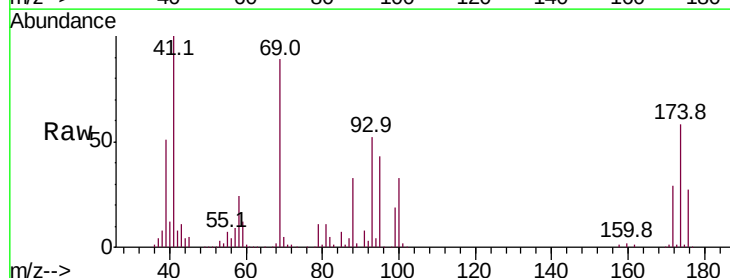
RT: 9.20 min Scan# 2310

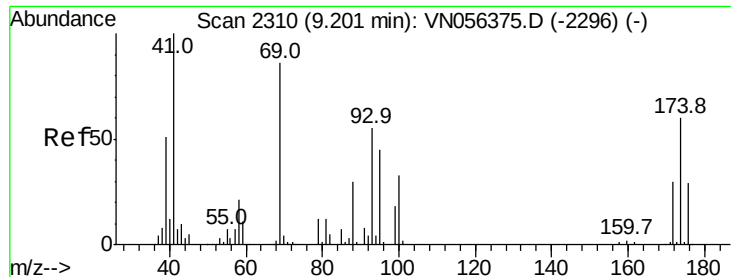
Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion:	41	Resp:	186533
Ion Ratio	Lower	Upper	
41	100		
69	90.6	72.6	109.0
39	52.9	42.6	63.8





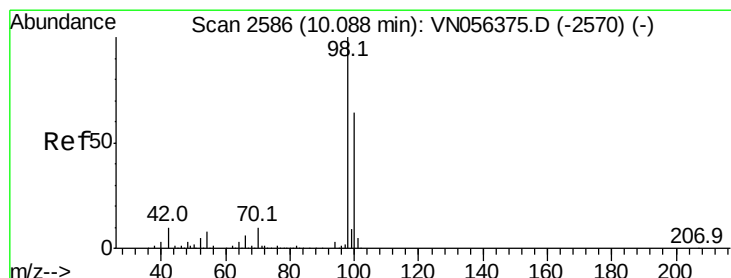
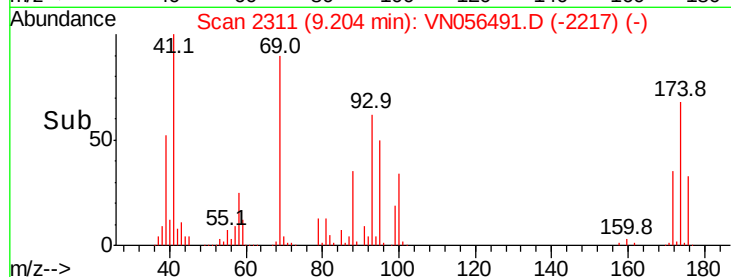
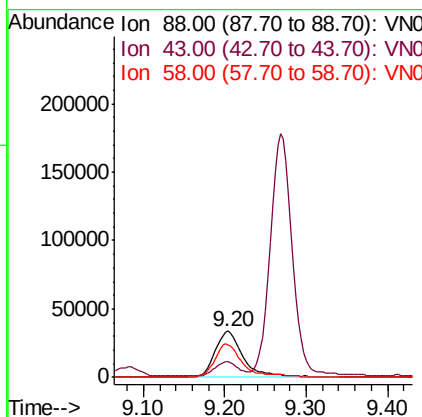
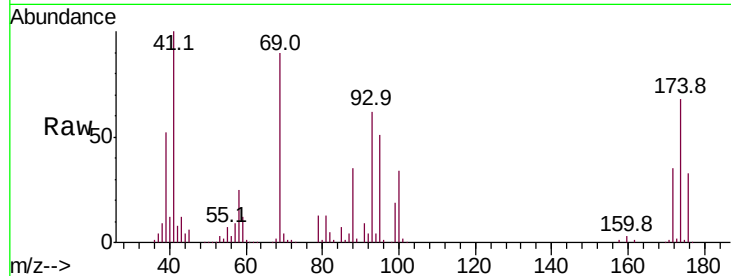
#49
1,4-Dioxane
Concen: 1113.616 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2MS

Tot Ion	88	Resp	83261
Ion	Ratio	Lower	Upper
88	100		
43	26.4	22.0	33.0
58	72.6	51.8	77.8

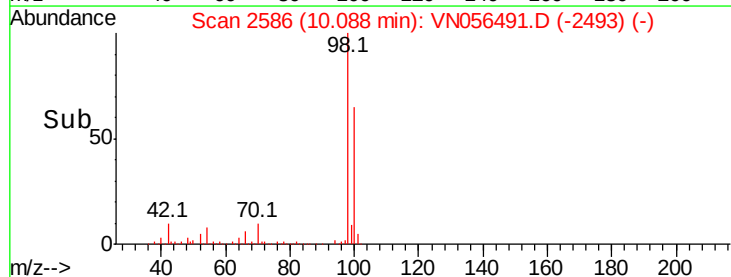
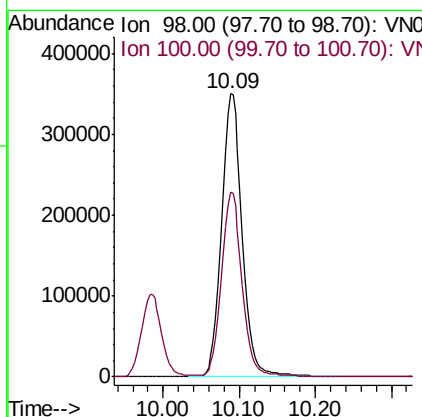
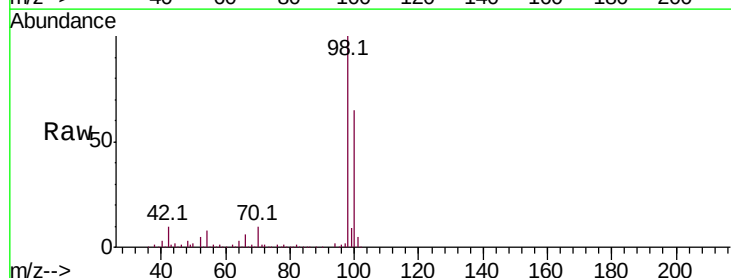
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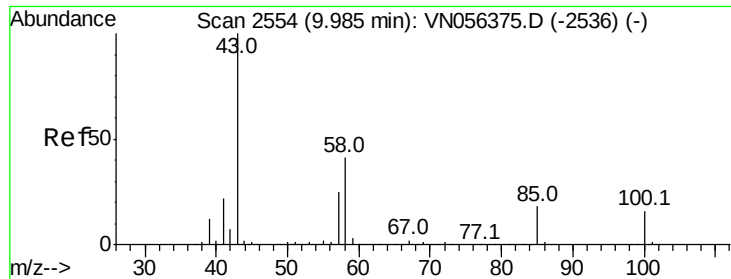
MMDadoda
6/26/2019 9:28:32 AM



#50
Toluene-d8
Concen: 50.598 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion	98	Resp	662037
Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 272.900 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 43 Resp: 1266361

Ion Ratio Lower Upper

43 100

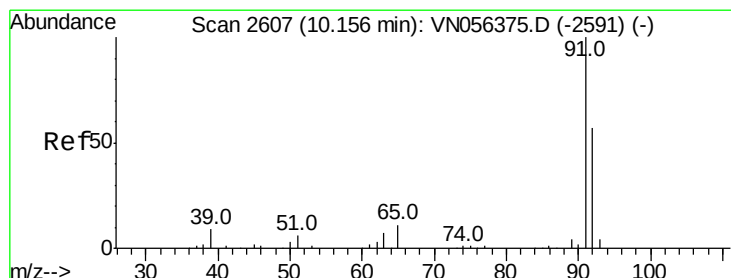
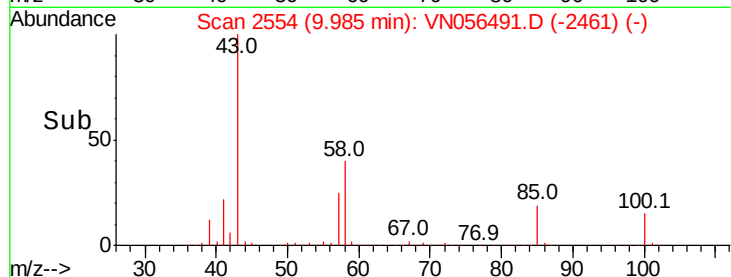
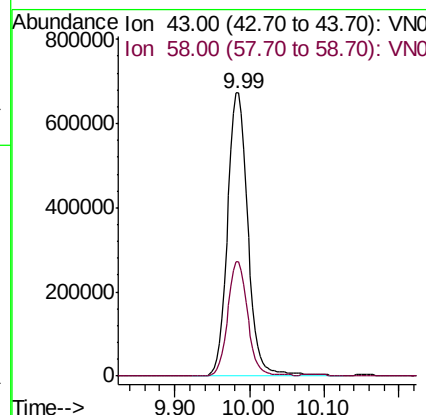
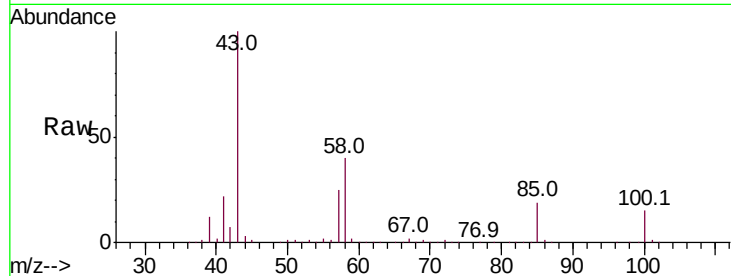
58 39.6 31.8 47.8

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6/26/2019 9:28:32 AM



#52

Toluene

Concen: 49.108 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056491.D

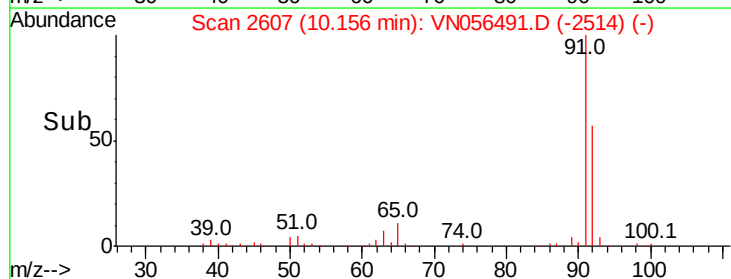
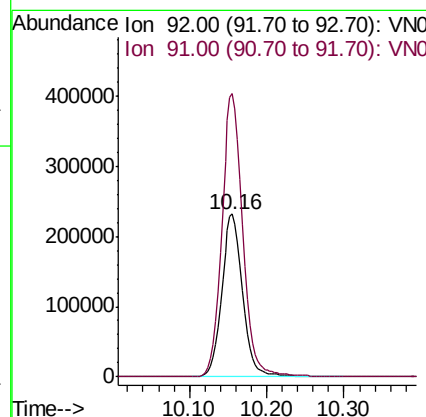
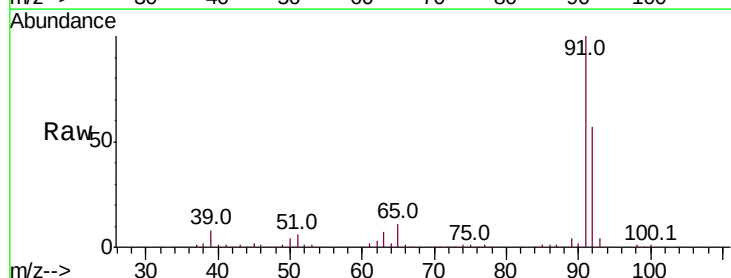
Acq: 25 Jun 2019 16:58

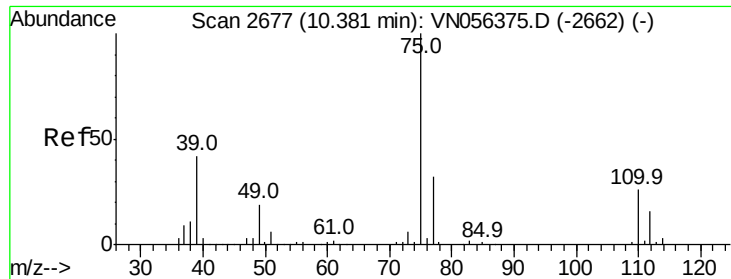
Tgt Ion: 92 Resp: 438164

Ion Ratio Lower Upper

92 100

91 174.8 140.6 211.0





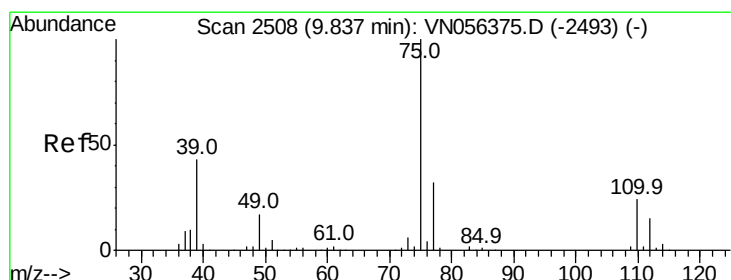
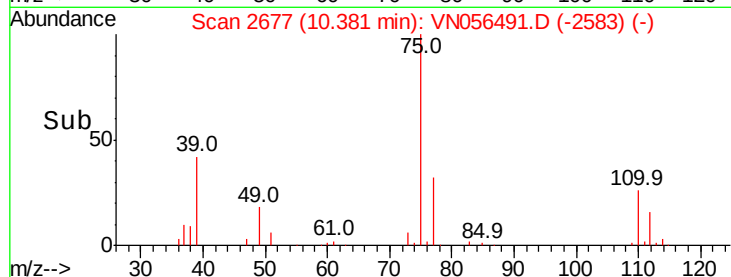
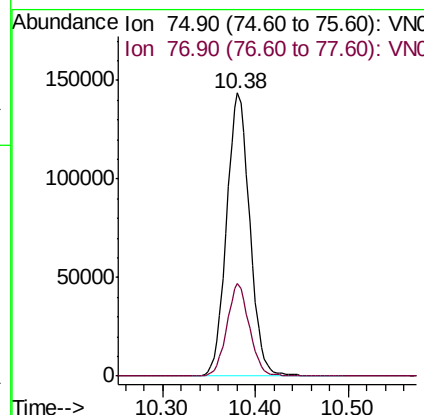
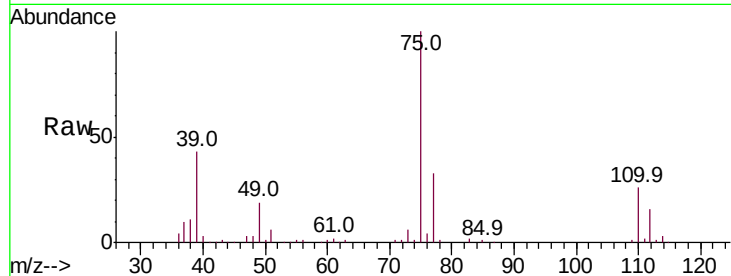
#53
 t-1,3-Dichloropropene
 Concen: 49.362 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion: 75 Resp: 248788
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.4 38.2

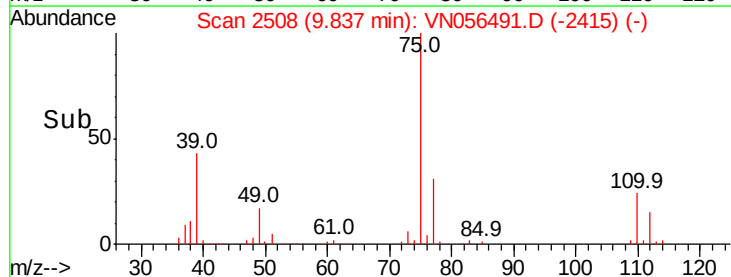
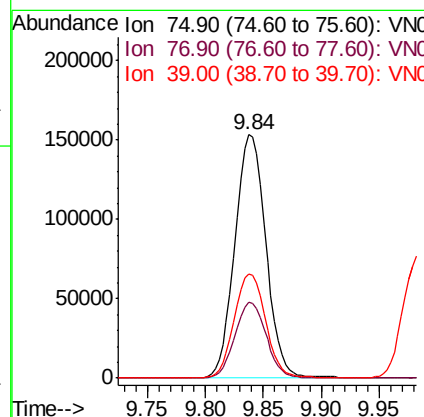
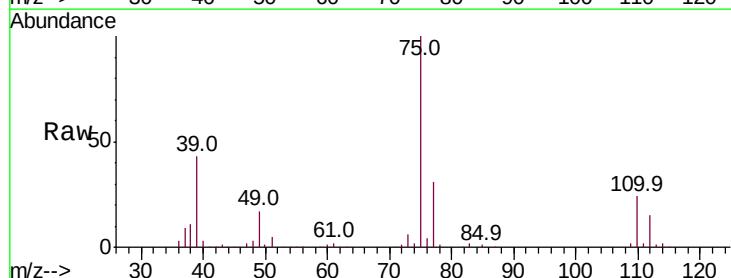
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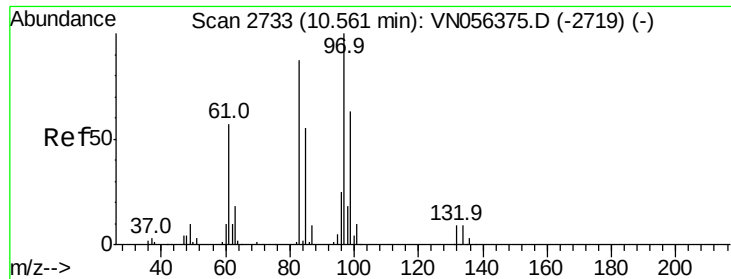
MMDadoda
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#54
 cis-1,3-Dichloropropene
 Concen: 54.613 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion: 75 Resp: 284817
 Ion Ratio Lower Upper
 75 100
 77 31.1 25.2 37.8
 39 42.7 34.2 51.4





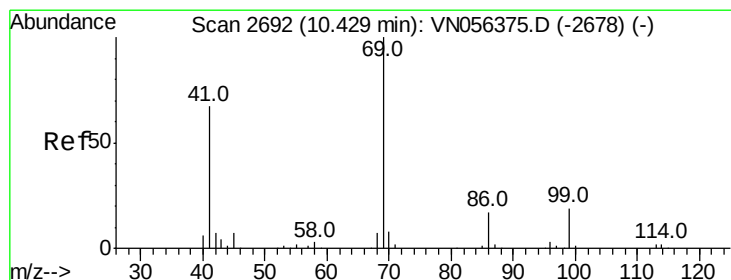
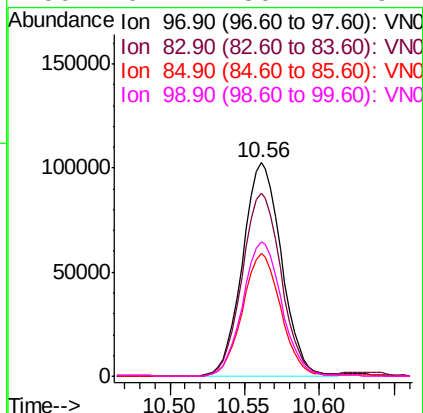
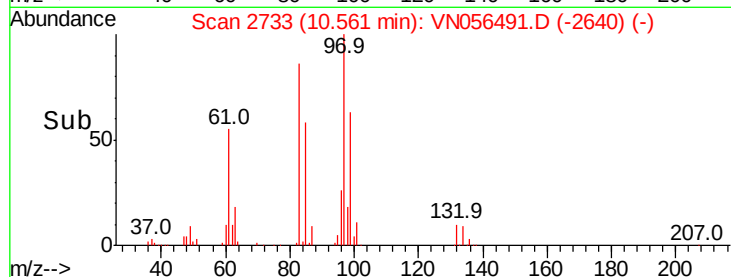
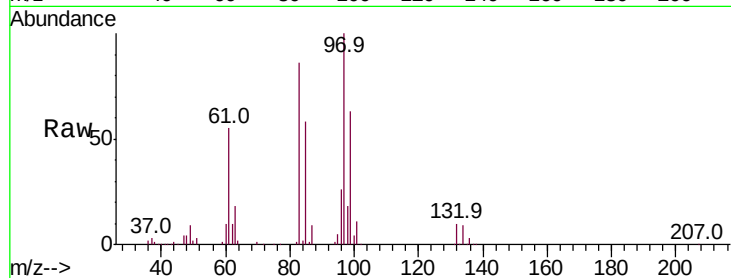
#55
 1,1,2-Trichloroethane
 Concen: 51.910 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.9	69.8	104.6
85	57.6	43.8	65.8
99	62.7	50.2	75.2

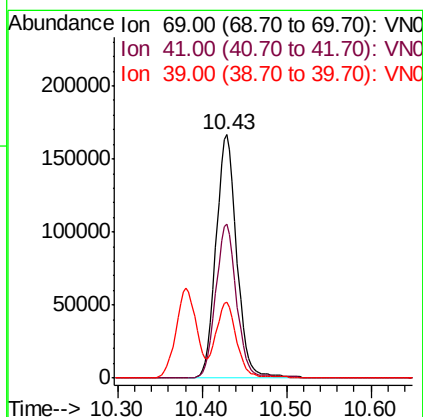
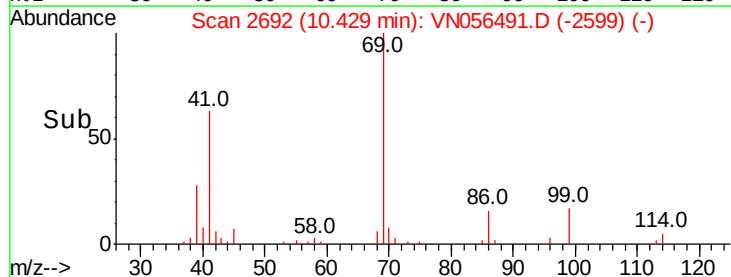
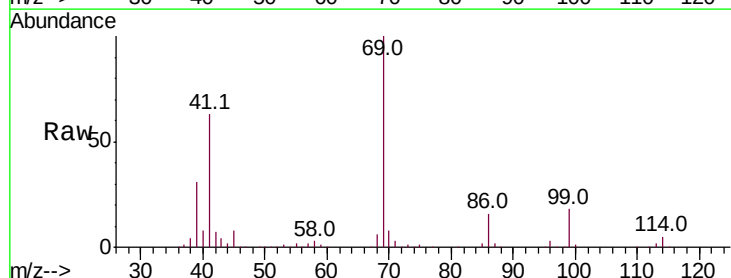
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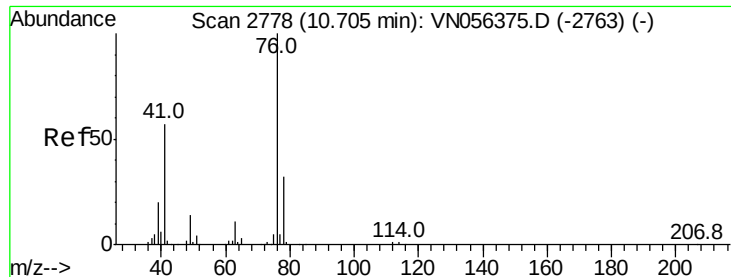
MMDadoda
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#56
 Ethyl methacrylate
 Concen: 54.456 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.6	51.4	77.2
39	29.5	24.7	37.1





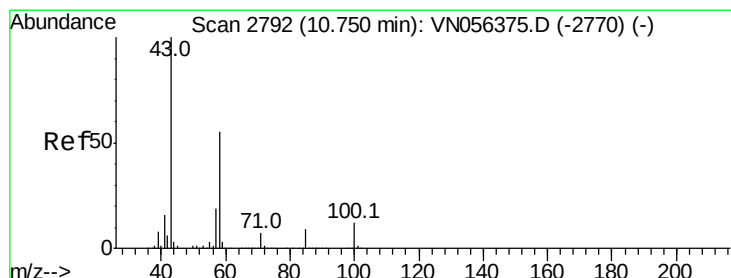
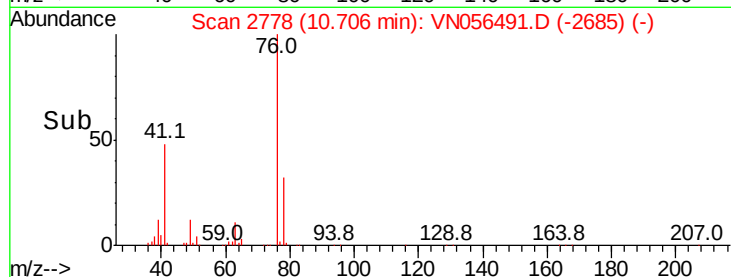
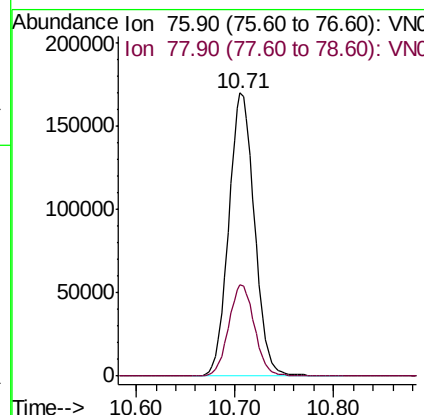
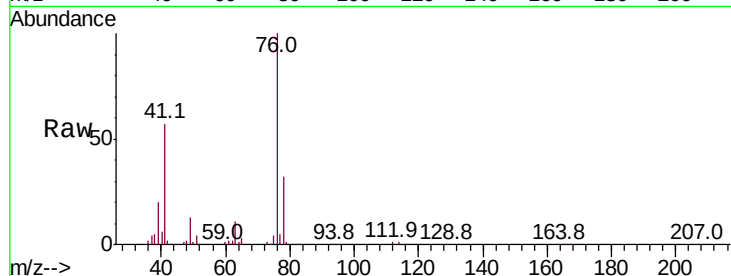
#57
 1,3-Dichloropropane
 Concen: 51.739 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.9	38.9

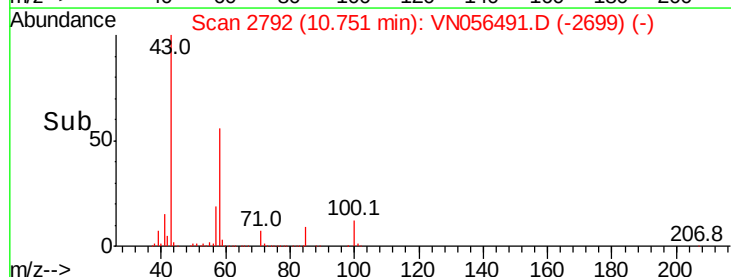
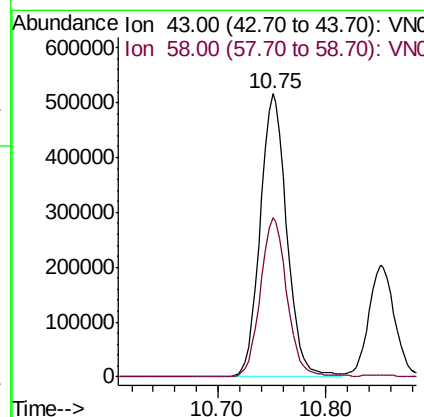
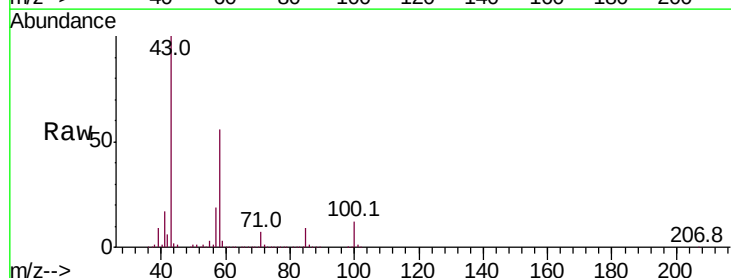
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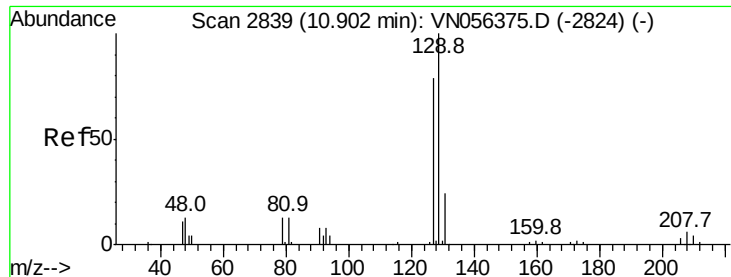
MMDadoda
 6/26/2019 9:28:32 AM



#59
 2-Hexanone
 Concen: 257.710 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
43	100		
58	56.2	27.8	83.4





#60

Dibromochloromethane

Concen: 49.759 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:129 Resp: 183385

Ion Ratio Lower Upper

129 100

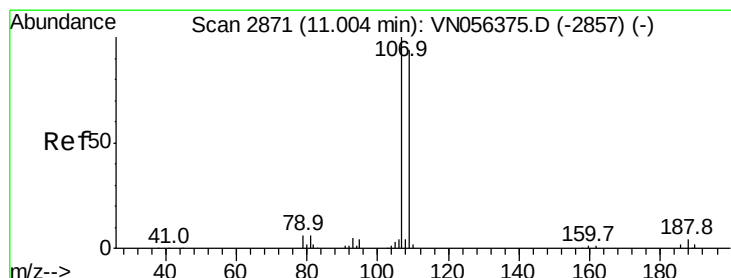
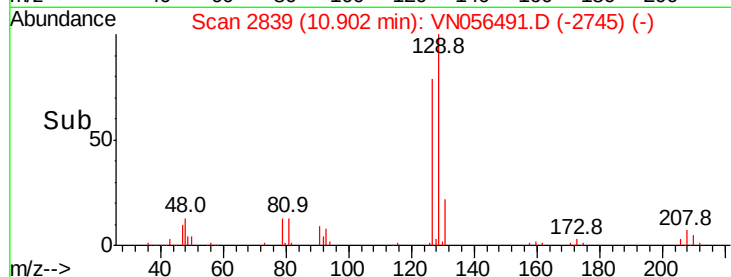
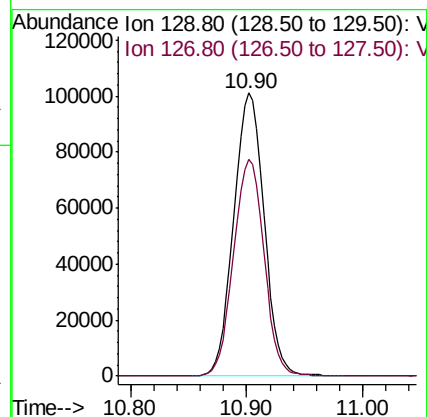
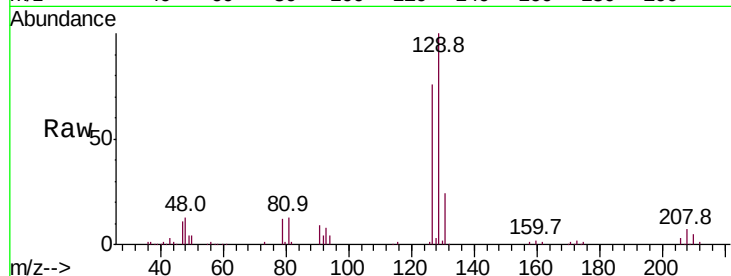
127 76.6 38.9 116.7

Manual Integrations

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6/26/2019 9:28:32 AM



#61

1,2-Dibromoethane

Concen: 52.170 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN056491.D

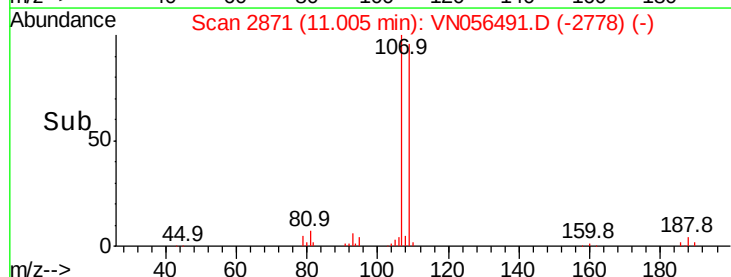
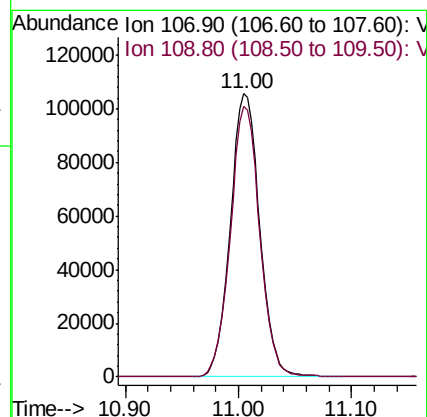
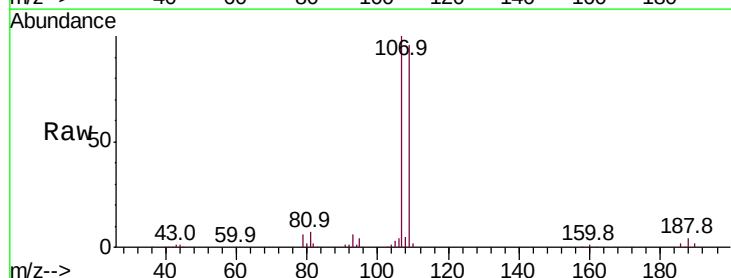
Acq: 25 Jun 2019 16:58

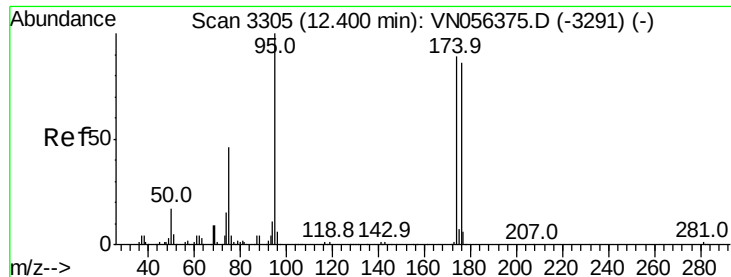
Tgt Ion:107 Resp: 191096

Ion Ratio Lower Upper

107 100

109 95.4 75.3 112.9





#62

4-Bromofluorobenzene

Concen: 53.165 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

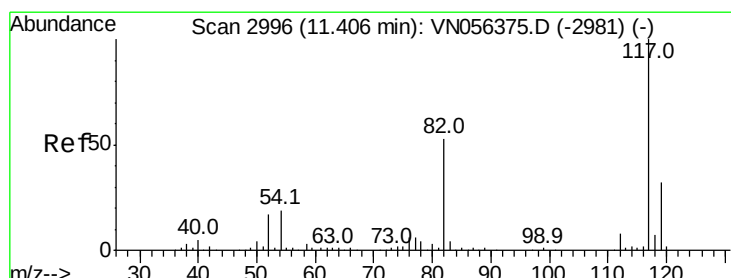
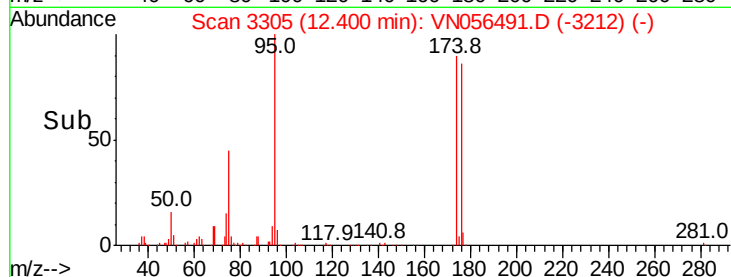
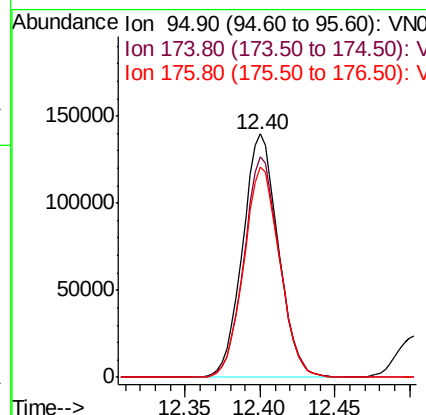
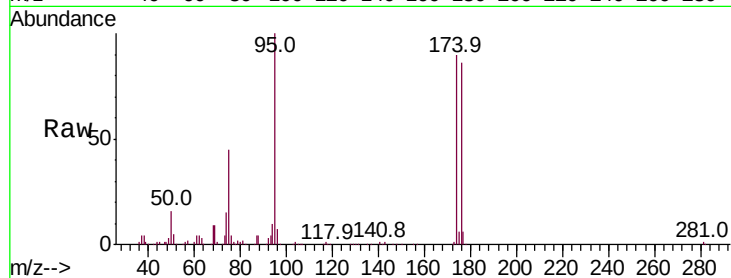
ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:	95	Resp:	231894
Ion Ratio	Lower	Upper	
95	100		
174	90.3	0.0	179.4
176	87.1	0.0	173.4

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

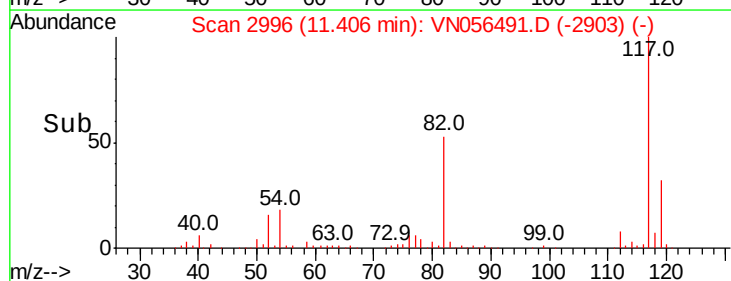
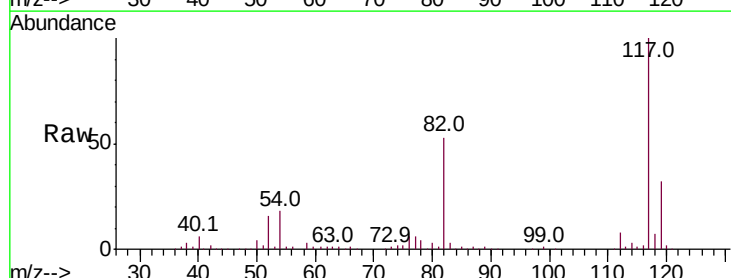
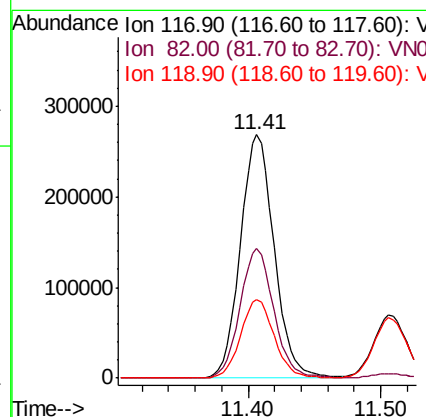
RT: 11.41 min Scan# 2996

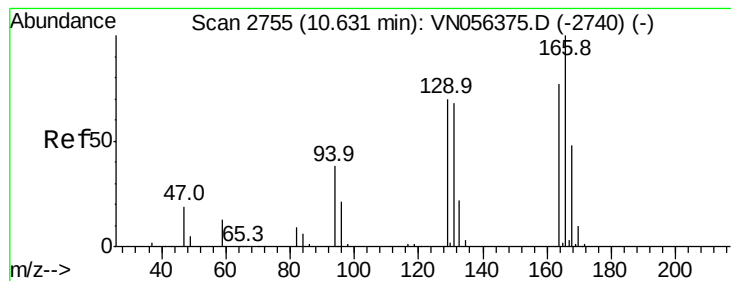
Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion:	117	Resp:	476056
Ion Ratio	Lower	Upper	
117	100		
82	53.2	42.0	63.0
119	32.3	25.3	37.9





#64

Tetrachloroethene

Concen: 47.609 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:164 Resp: 179485

Ion Ratio Lower Upper

164 100

166 125.9 103.4 155.0

129 90.8 72.0 108.0

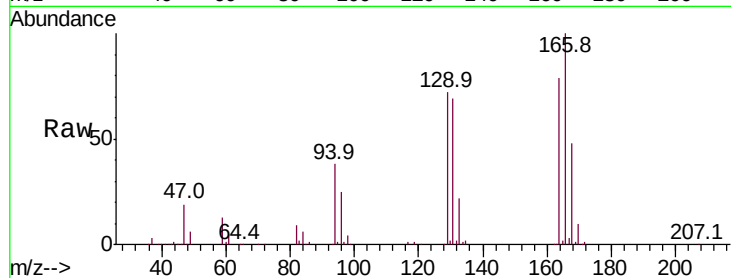
131 86.3 70.2 105.2

Manual Integrations

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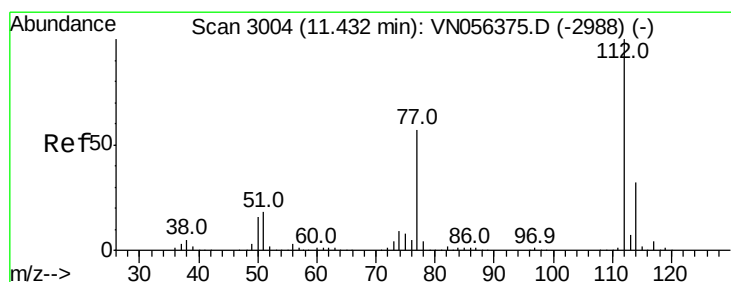
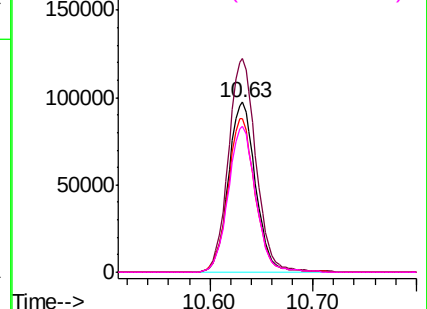
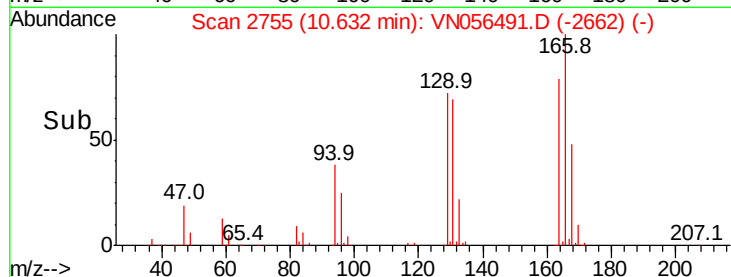


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 50.449 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN056491.D

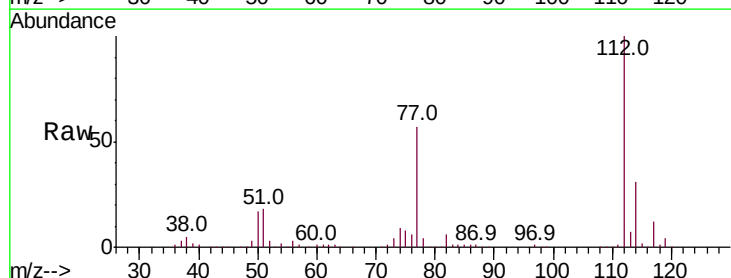
Acq: 25 Jun 2019 16:58

Tgt Ion:112 Resp: 482580

Ion Ratio Lower Upper

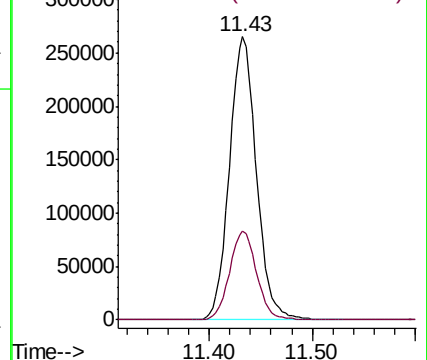
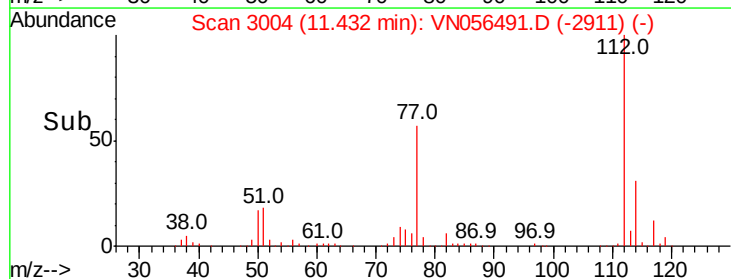
112 100

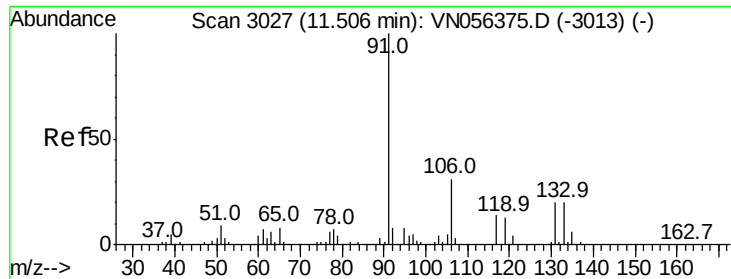
114 31.4 25.4 38.2



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 54.488 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

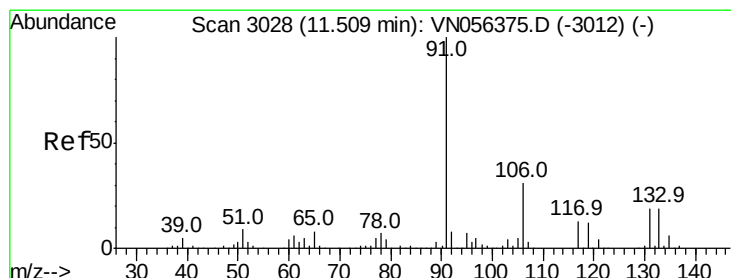
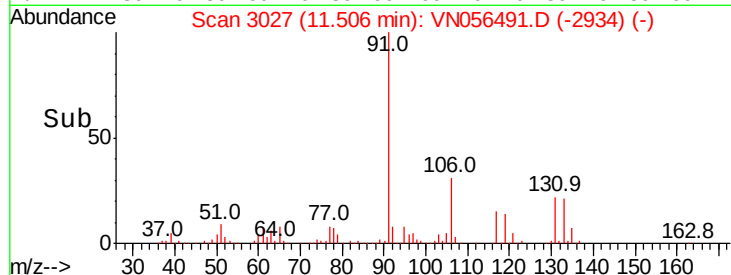
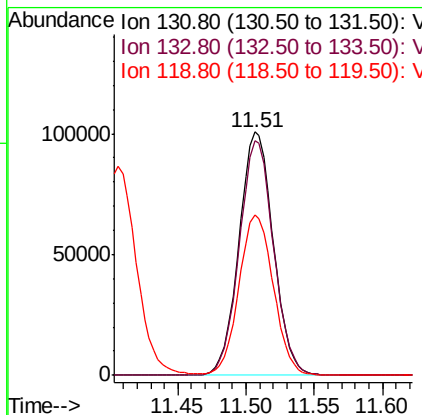
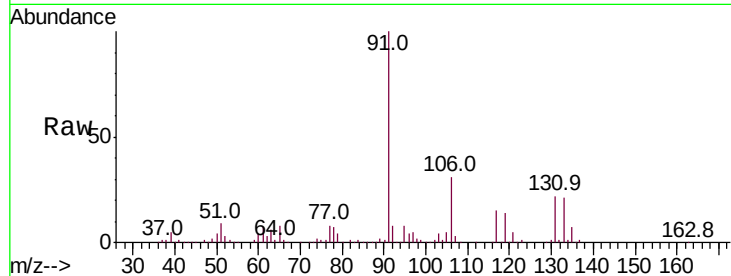
ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:	131	Resp:	176157
Ion Ratio	Lower	Upper	
131	100		
133	96.0	47.4	142.2
119	66.3	32.8	98.4

Manual Integrations
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#67

Ethyl Benzene

Concen: 49.553 ug/l

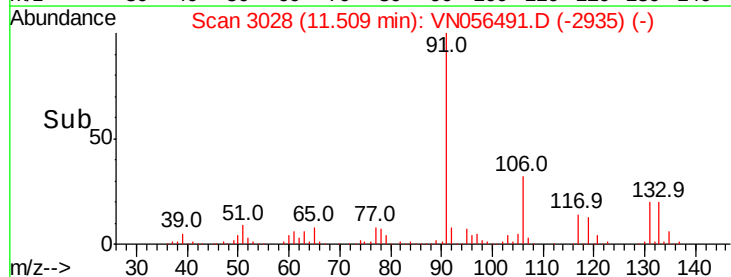
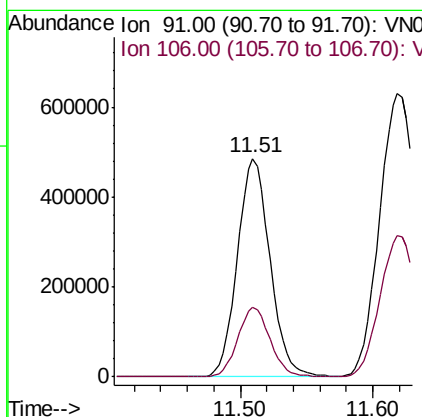
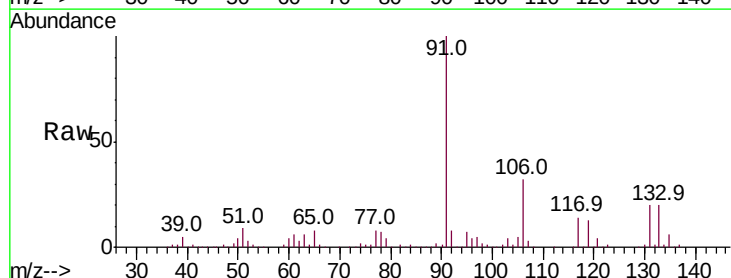
RT: 11.51 min Scan# 3028

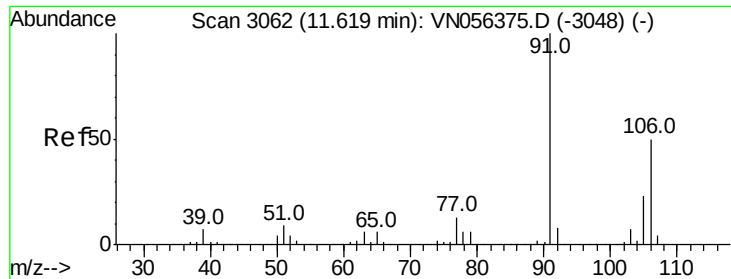
Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Tgt Ion:	91	Resp:	832292
Ion Ratio	Lower	Upper	
91	100		
106	31.8	25.1	37.7





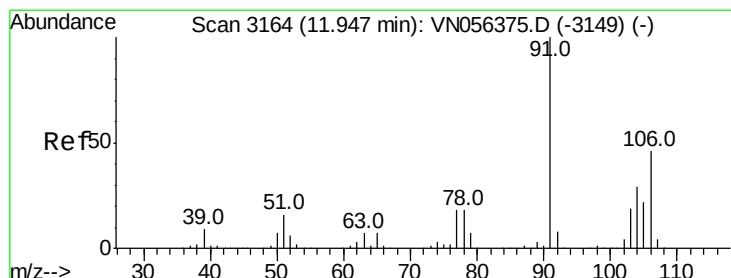
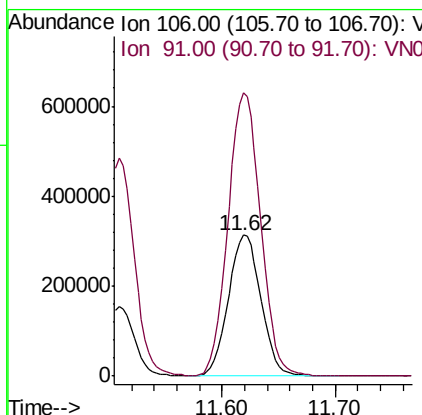
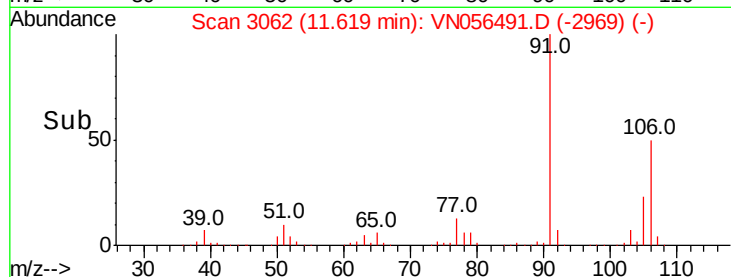
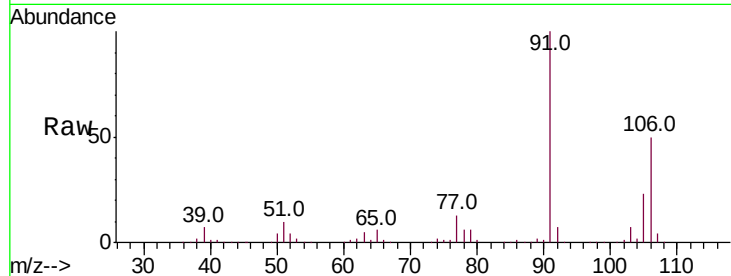
#68
m/p-Xylenes
Concen: 102.130 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2MS

Tot Ion:106 Resp: 628644
Ion Ratio Lower Upper
106 100
91 200.3 160.1 240.1

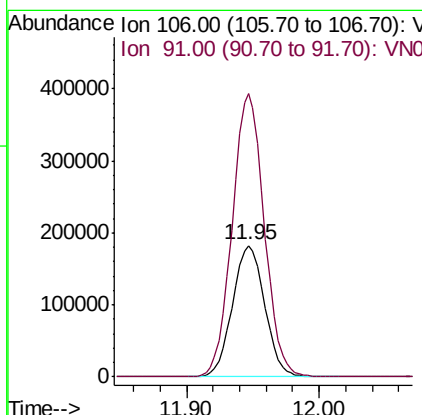
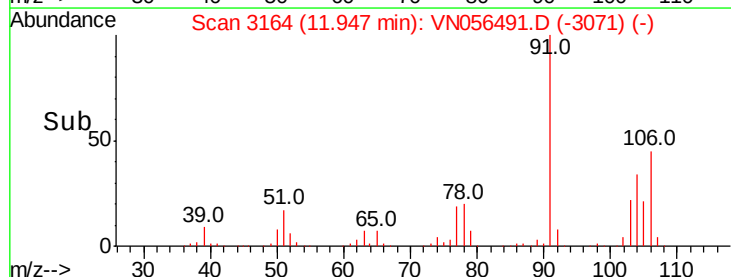
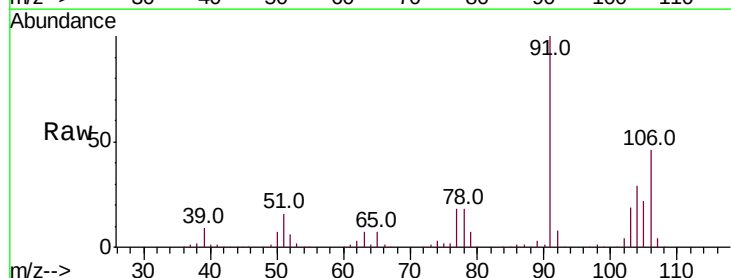
Manual Integrations
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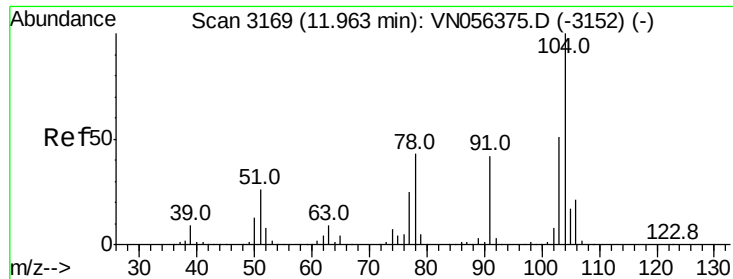
MMDadoda
6/26/2019 9:28:32 AM



#69
o-Xylene
Concen: 50.722 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion:106 Resp: 308882
Ion Ratio Lower Upper
106 100
91 212.8 107.1 321.3





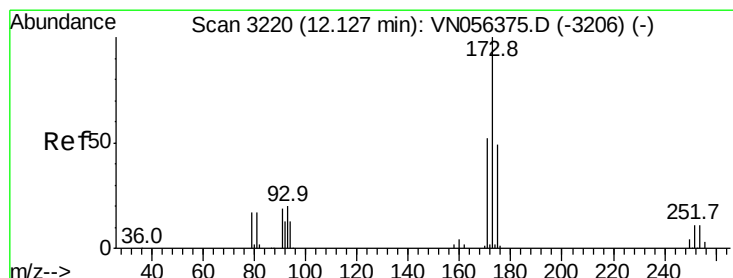
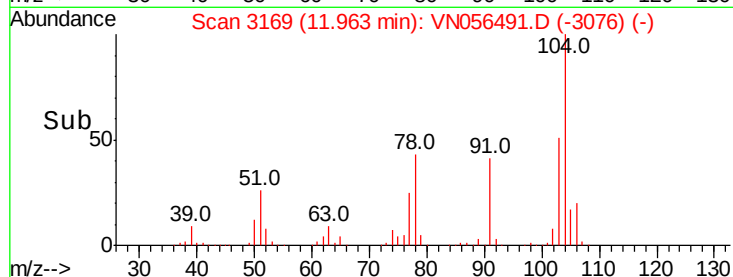
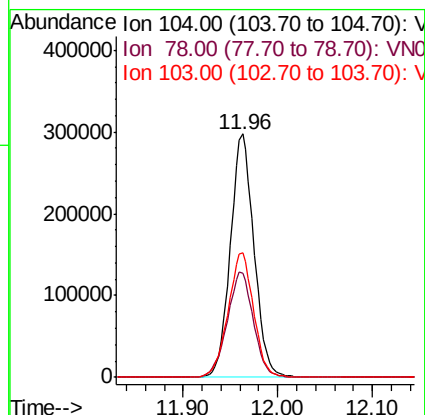
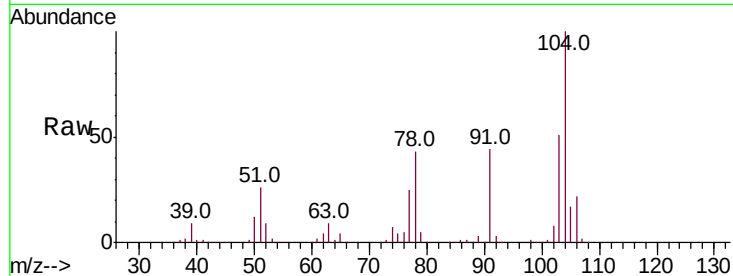
#70
Stvrene
Concen: 53.000 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2MS

Tot Ion	Ratio	Resp	Lower	Upper
104	100	515893		
78	47.8		38.6	57.8
103	55.3		43.9	65.9

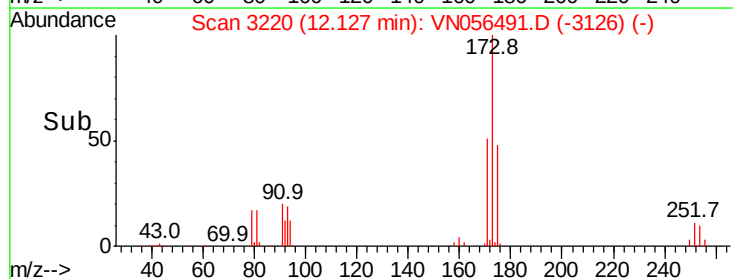
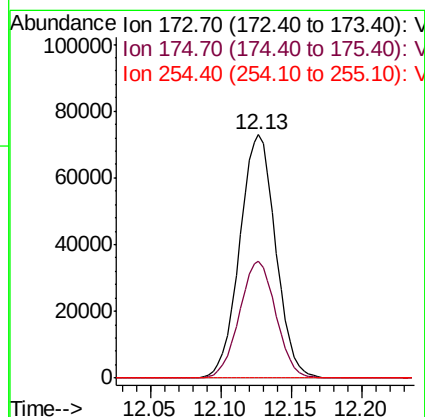
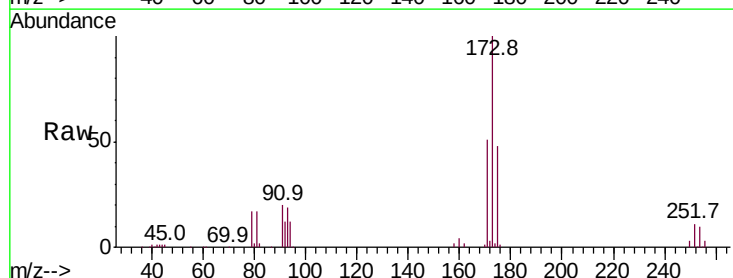
Manual Integrations
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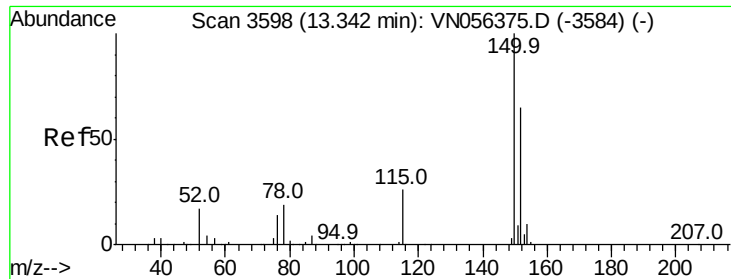
MMDadoda
6/26/2019 9:28:32 AM



#71
Bromoform
Concen: 49.958 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	130290		
175	48.4		24.4	73.4
254	0.0		0.0	0.0#





#72

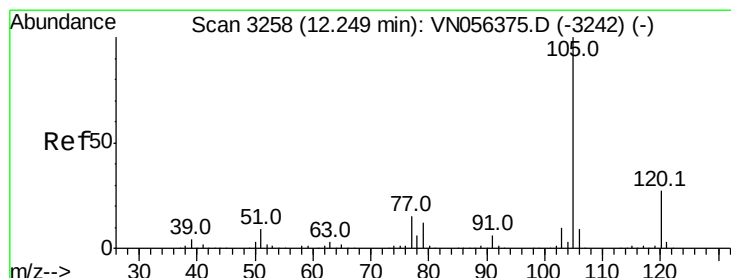
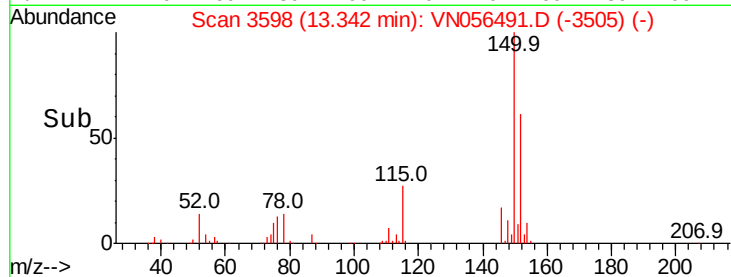
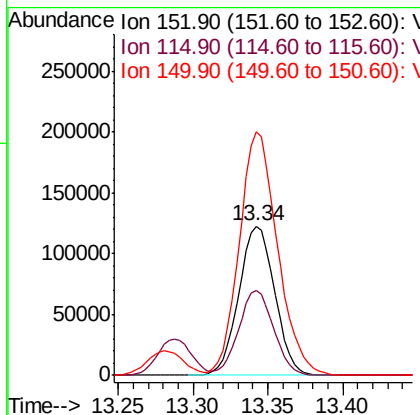
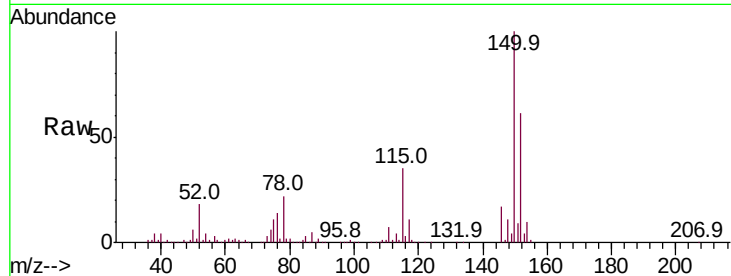
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Instrument :
MSVOA_N
ClientSampleId :
SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.5	28.1	84.4
150	174.5	0.0	348.4

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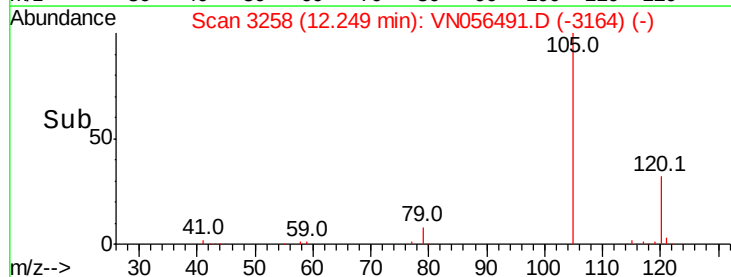
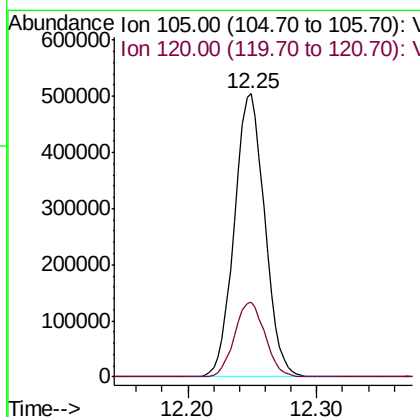
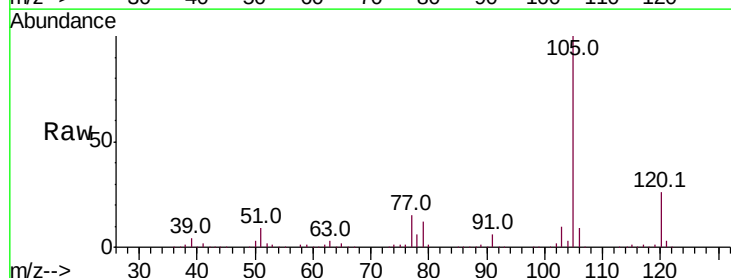
MMDadoda
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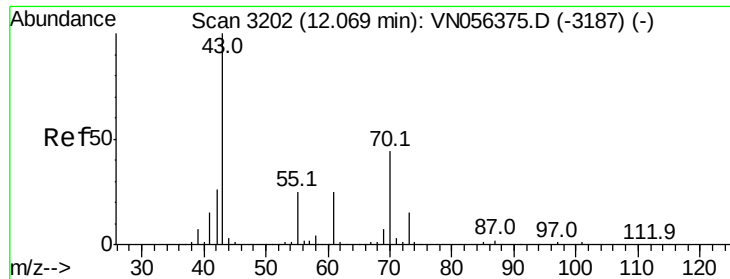


#73

Isopropylbenzene
Concen: 53.972 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056491.D
Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.4	40.2





#74

N-amvl acetate

Concen: 49.076 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 43 Resp: 319249

Ion Ratio Lower Upper

43 100

70 43.6 34.9 52.3

55 25.2 20.4 30.6

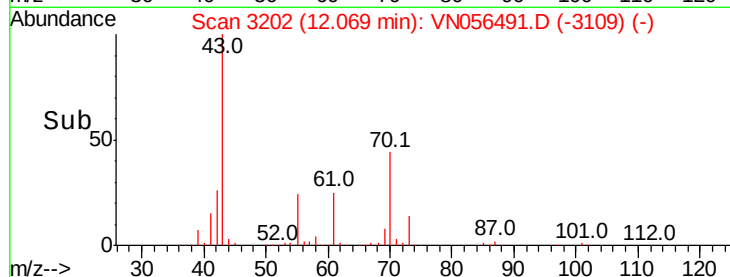
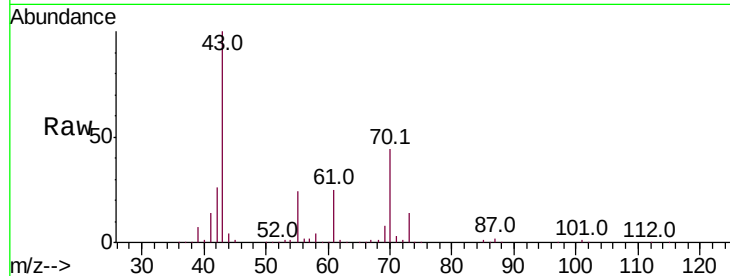
61 25.0 19.8 29.8

Manual Integrations

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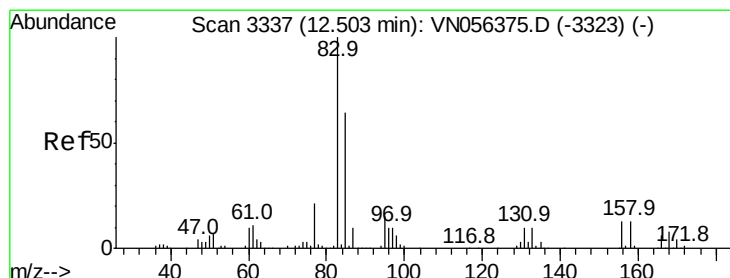
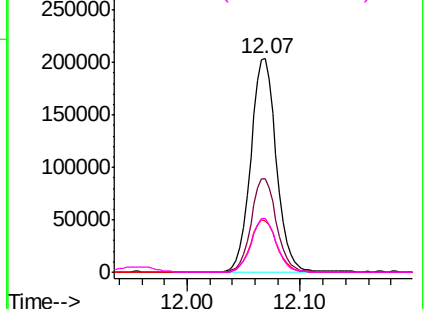
Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: 56.486 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

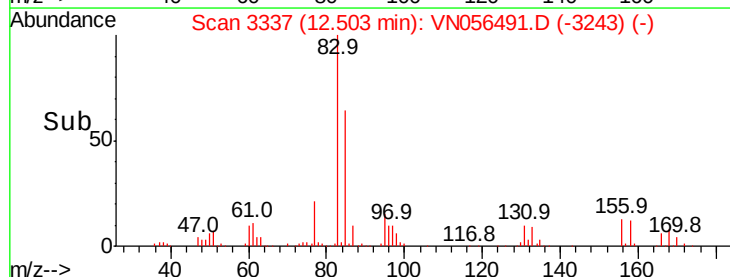
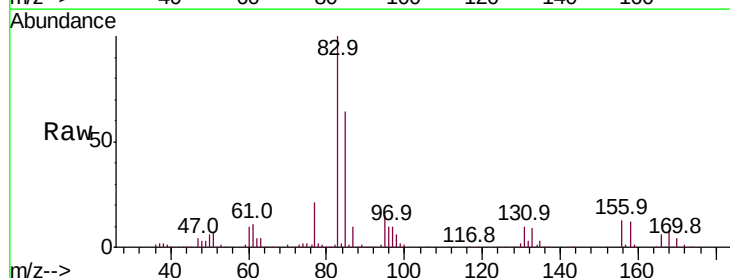
Tgt Ion: 83 Resp: 266574

Ion Ratio Lower Upper

83 100

131 10.0 5.3 15.8

85 64.0 32.4 97.0

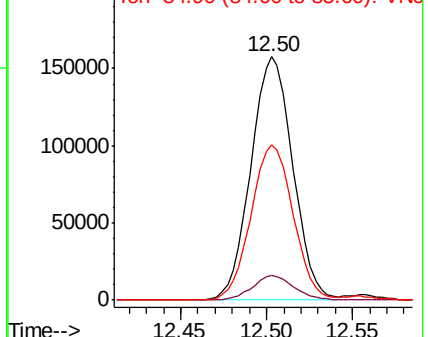


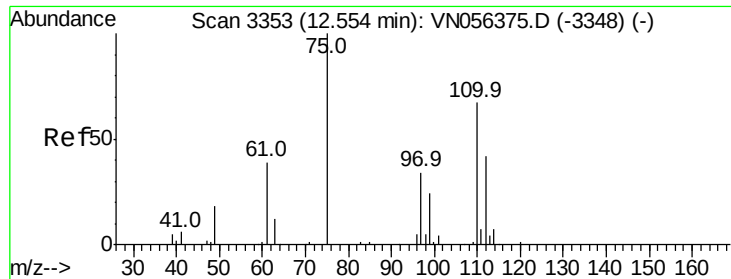
Abundance

Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





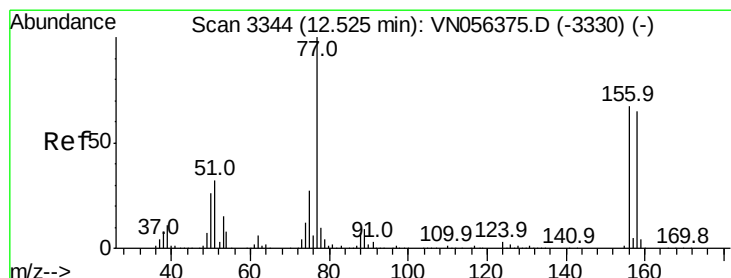
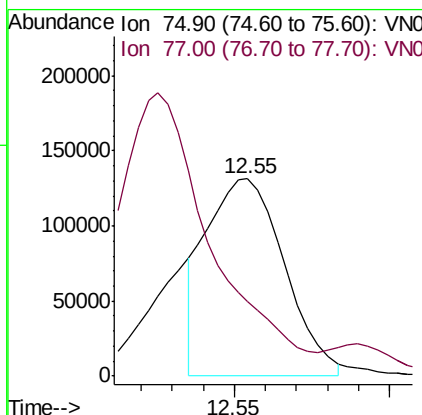
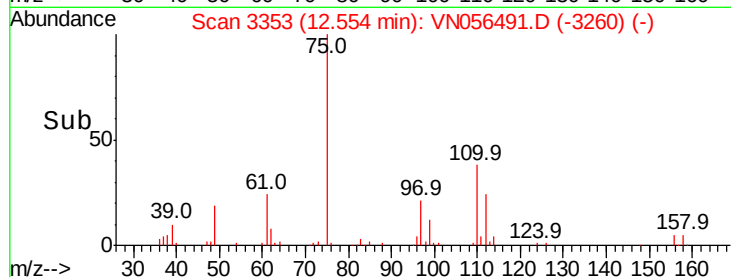
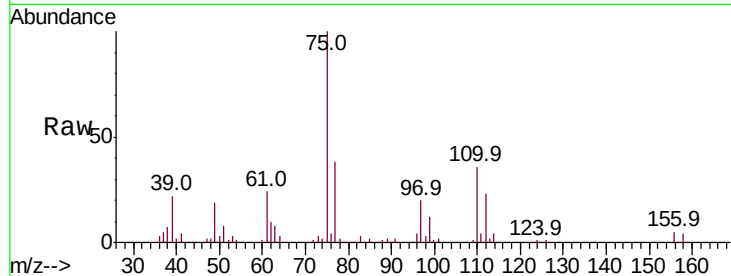
#76
 1,2,3-Trichloropropane
 Concen: 54.175 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

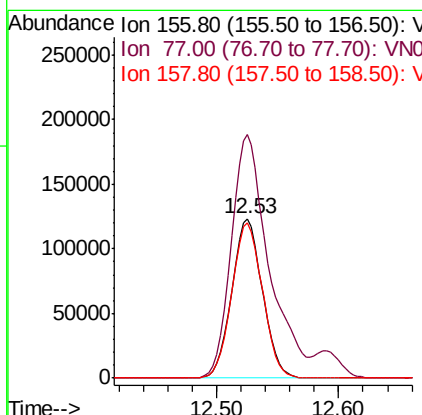
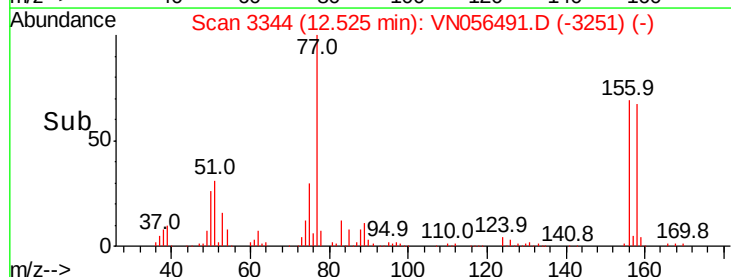
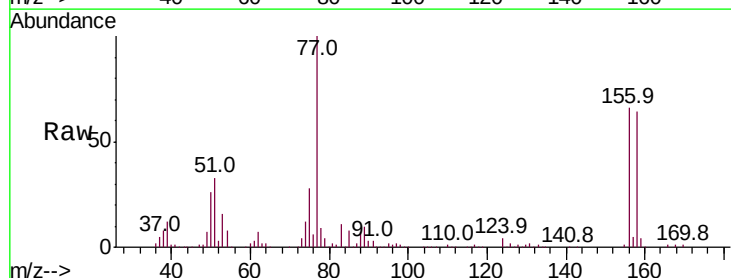
Manual Integrations
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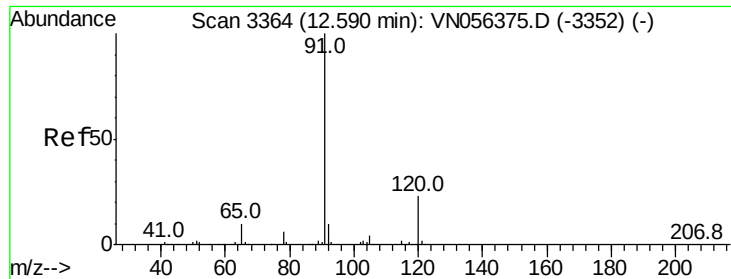
MMDadoda
 6/26/2019 9:28:32 AM



#77
 Bromobenzene
 Concen: 47.021 ug/l
 RT: 12.53 min Scan# 3344
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
156	100		
77	188.2	92.5	277.3
158	97.6	48.7	146.1





#78

n-propylbenzene

Concen: 47.089 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 91 Resp: 881404

Ion Ratio Lower Upper

91 100

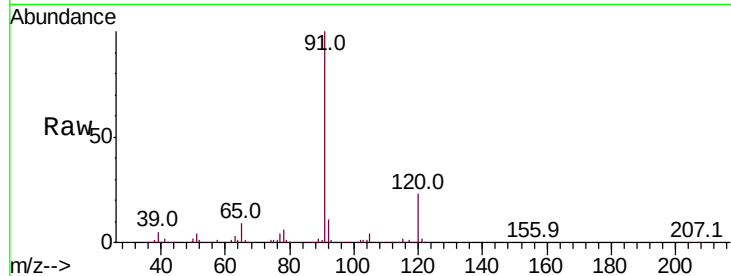
120 23.3 11.8 35.4

Manual Integrations

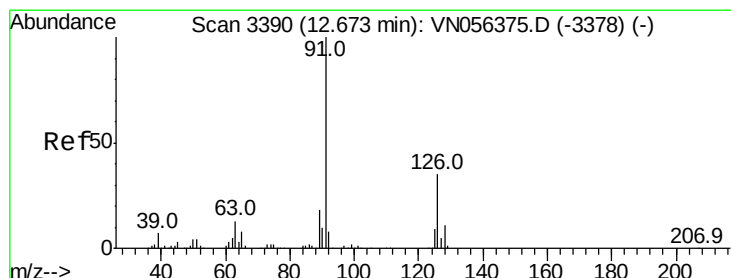
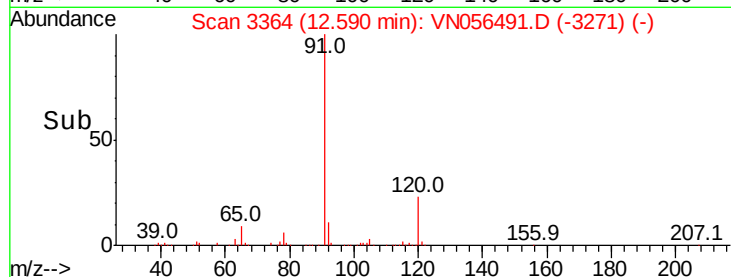
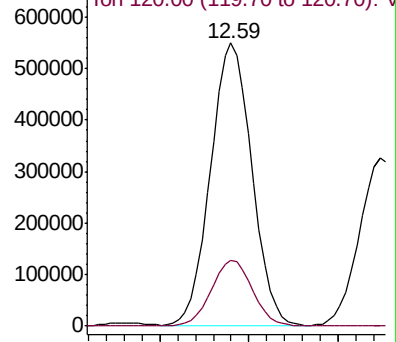
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6/26/2019 9:28:32 AM



Abundance Ion 91.00 (90.70 to 91.70): VN056491.D (-3271) (-)



#79

2-Chlorotoluene

Concen: 52.979 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056491.D

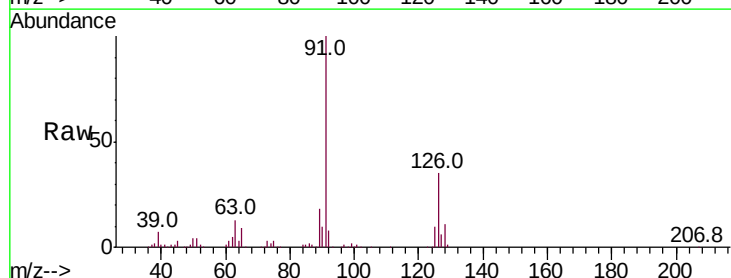
Acq: 25 Jun 2019 16:58

Tgt Ion: 91 Resp: 542216

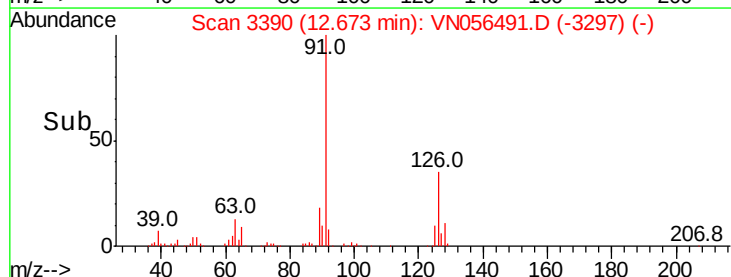
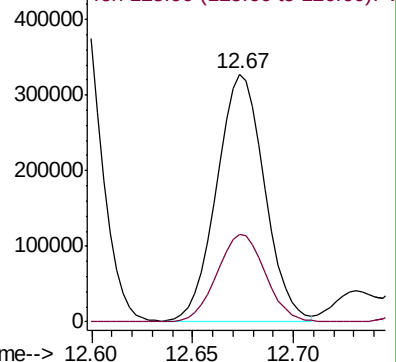
Ion Ratio Lower Upper

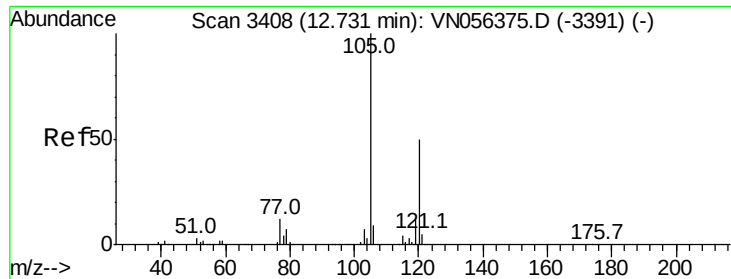
91 100

126 35.9 17.6 52.8



Abundance Ion 91.00 (90.70 to 91.70): VN056491.D (-3297) (-)





#80

1,3,5-Trimethylbenzene

Concen: 52.399 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:105 Resp: 672646

Ion Ratio Lower Upper

105 100

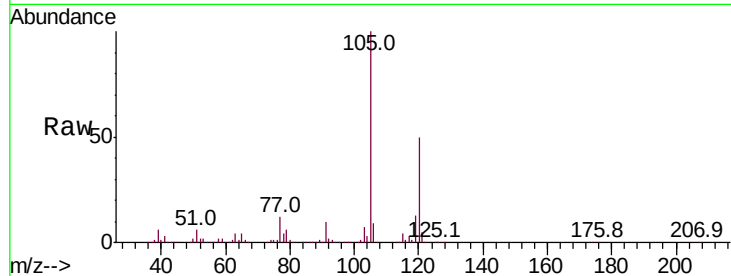
120 49.6 24.8 74.4

Manual Integrations

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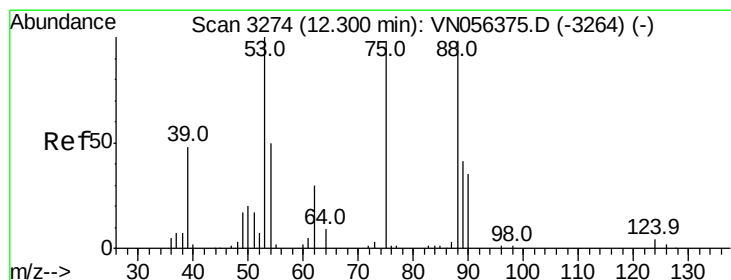
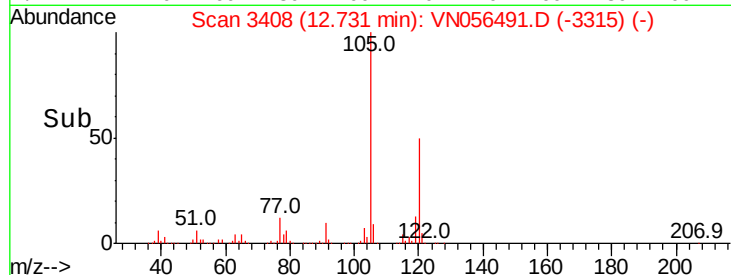
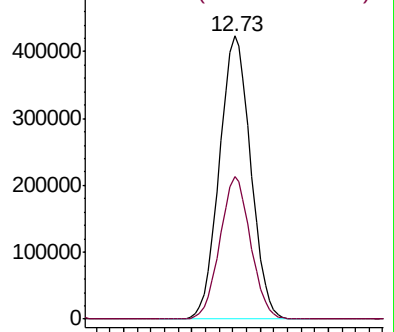
MMDadoda

6/26/2019 9:28:32 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 56.476 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

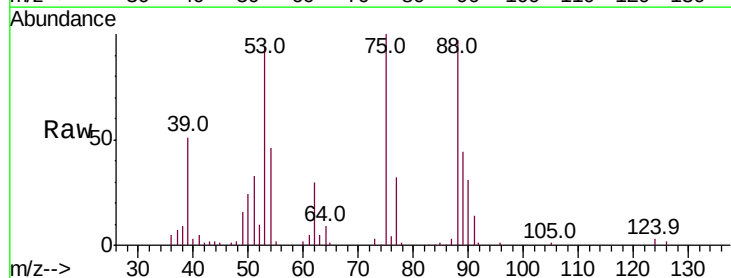
Tgt Ion: 75 Resp: 67347

Ion Ratio Lower Upper

75 100

53 97.2 83.9 125.9

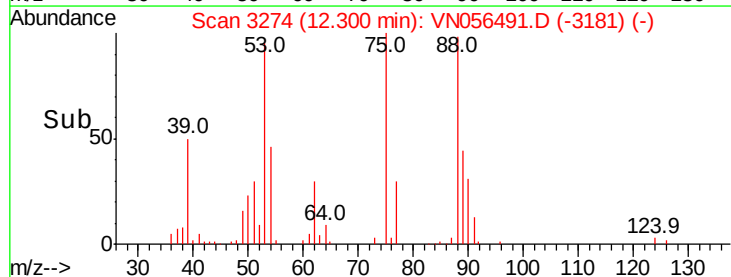
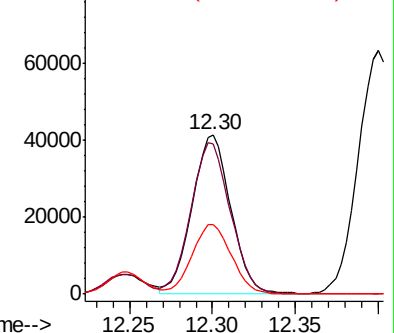
89 44.4 35.0 52.6

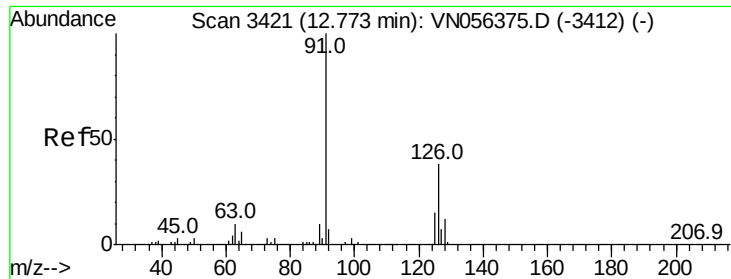


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 47.258 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 91 Resp: 522296

Ion Ratio Lower Upper

91 100

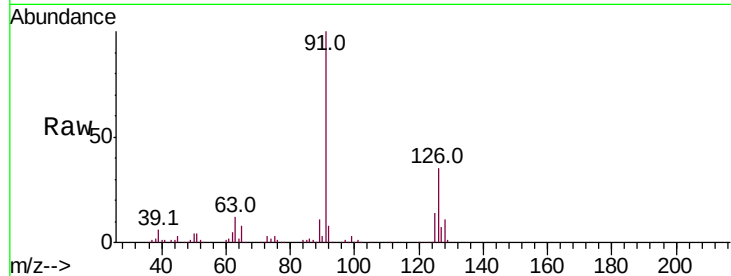
126 35.0 17.3 52.0

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN056375.D (-3412) (-)

Ion 125.90 (125.60 to 126.60): VN056375.D (-3412) (-)

12.77

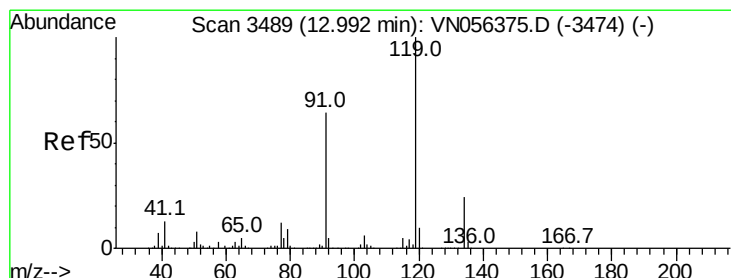
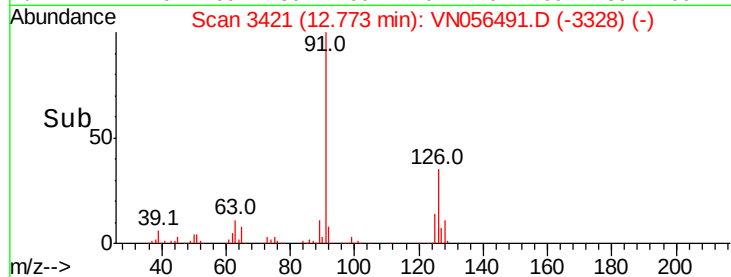
300000

200000

100000

0

Time--> 12.70 12.75 12.80 12.85



#83

tert-Butylbenzene

Concen: 53.716 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

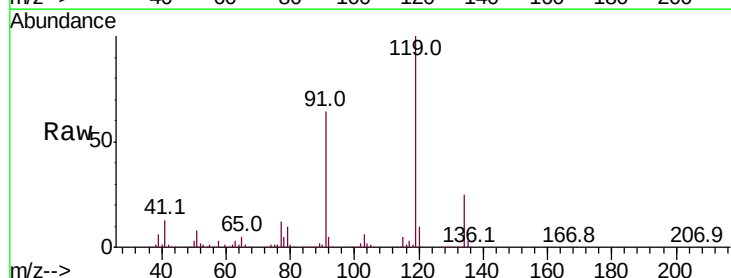
Tgt Ion: 119 Resp: 599810

Ion Ratio Lower Upper

119 100

91 62.7 31.6 94.7

134 26.7 13.2 39.5



Abundance Ion 119.00 (118.70 to 119.70): VN056375.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN056375.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN056375.D (-3474) (-)

12.99

500000

400000

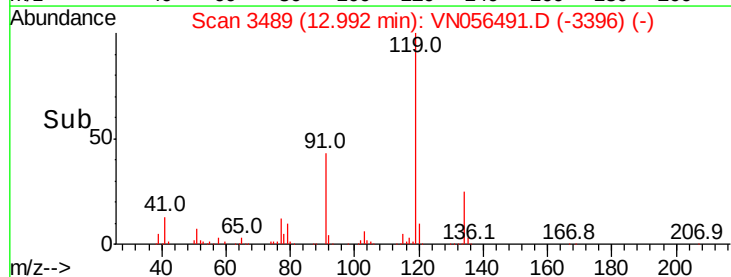
300000

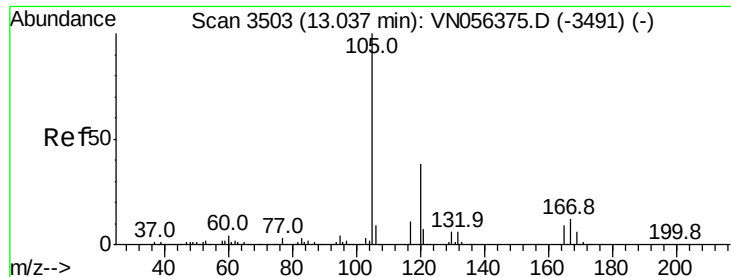
200000

100000

0

Time--> 12.95 13.00





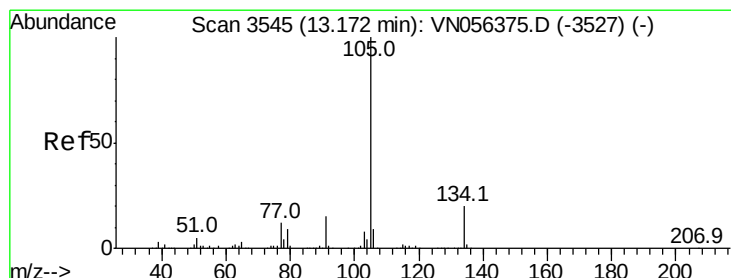
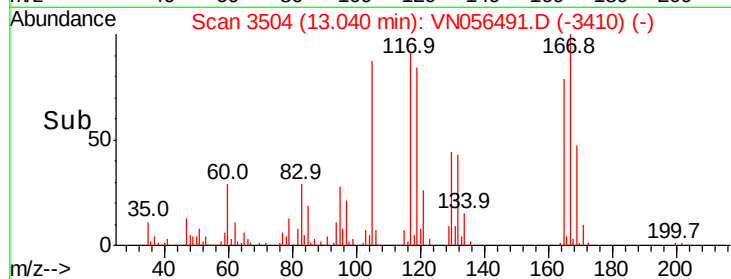
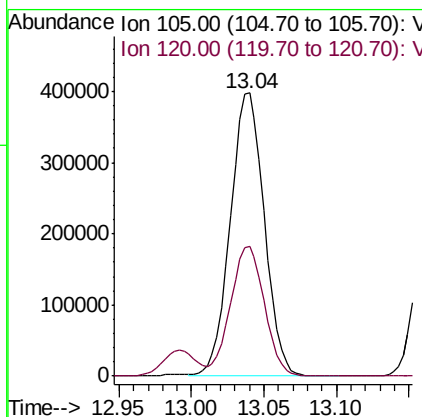
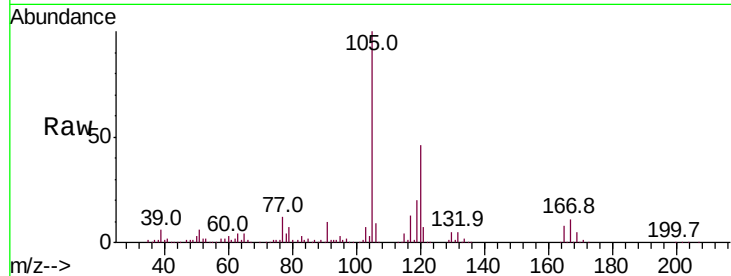
#84
 1,2,4-Trimethylbenzene
 Concen: 46.827 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.9	68.8

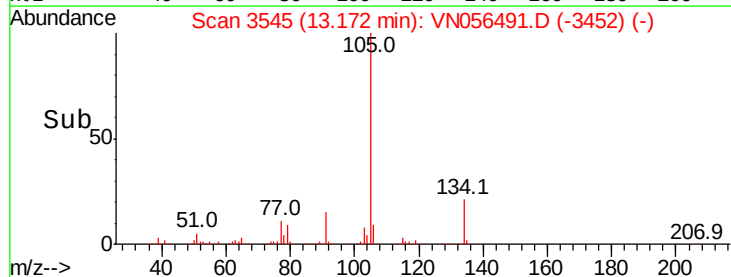
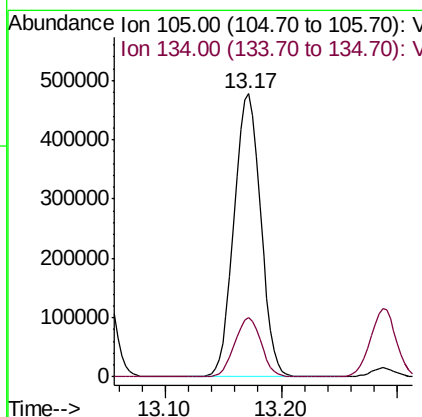
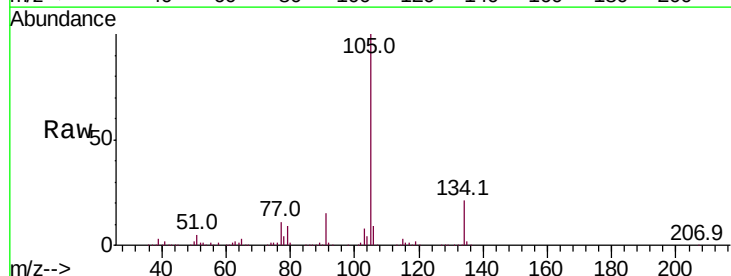
Manual Integrations
 APPROVED

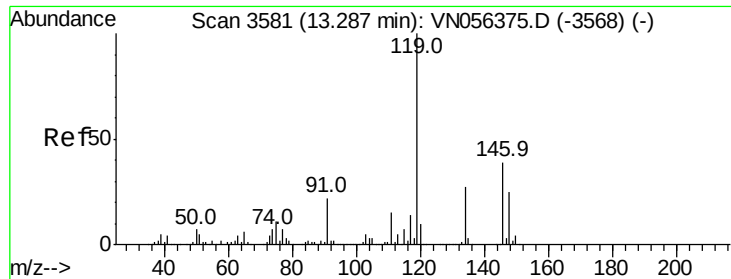
MMDadoda
 6/26/2019 9:28:32 AM



#85
 sec-Butylbenzene
 Concen: 46.229 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.2	30.4





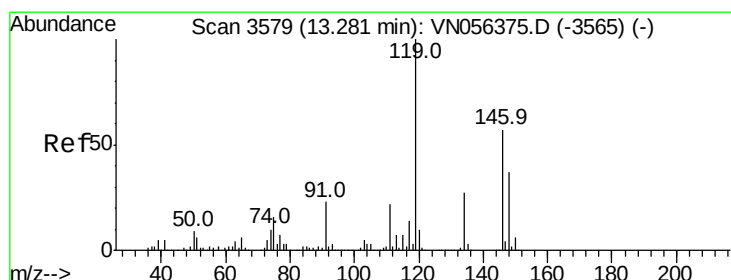
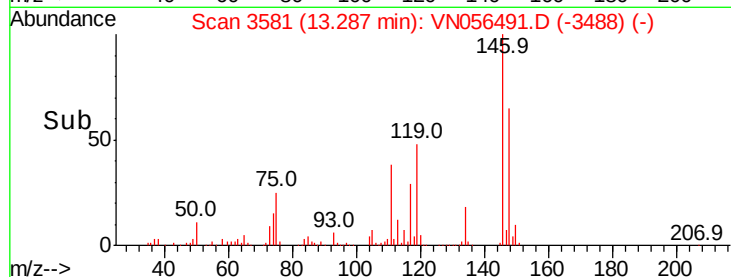
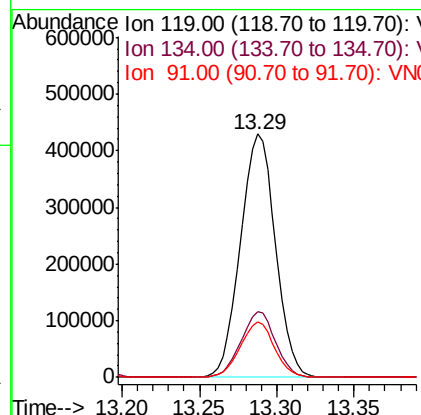
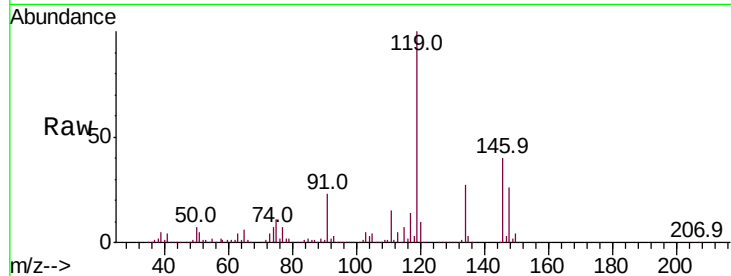
#86
 p-Isopropyltoluene
 Concen: 47.532 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	Ratio	Resp	Lower	Upper
119	100	671120		
134	26.7		13.5	40.4
91	22.2		11.2	33.5

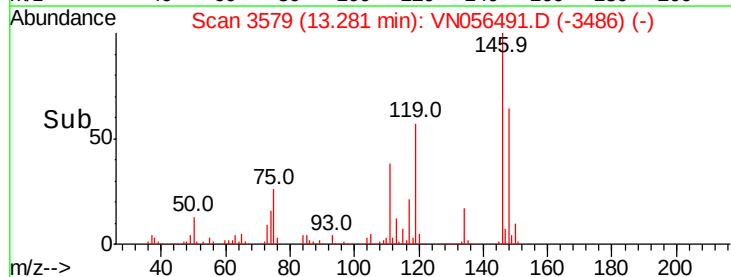
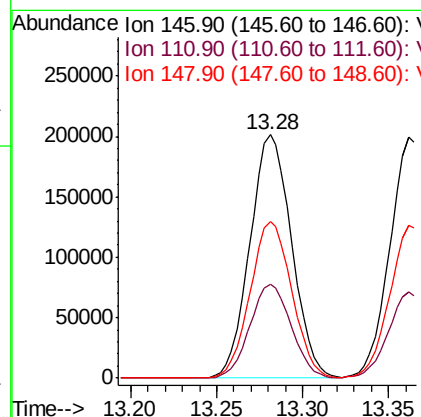
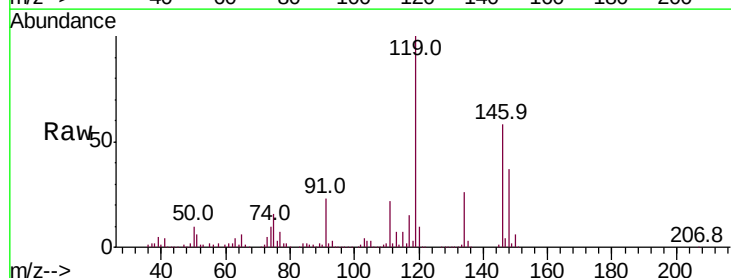
Manual Integrations
 APPROVED

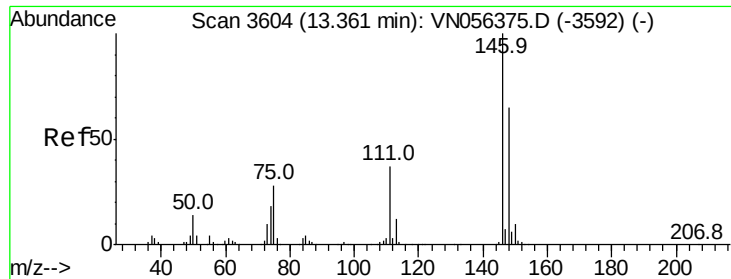
MMDadoda
 6/26/2019 9:28:32 AM



#87
 1,3-Dichlorobenzene
 Concen: 48.785 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	337895		
111	38.1		18.9	56.9
148	64.2		32.1	96.5





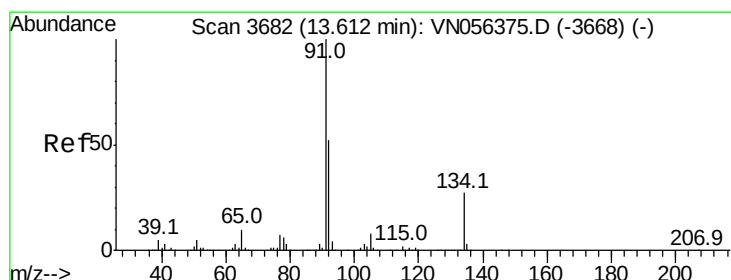
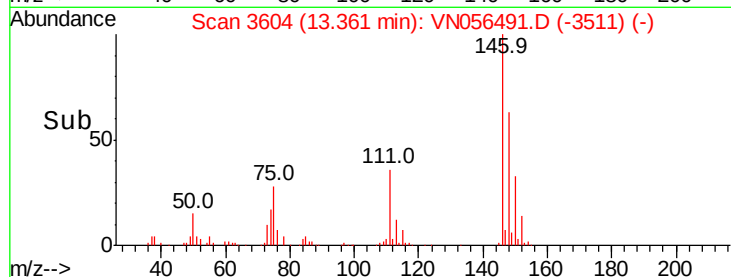
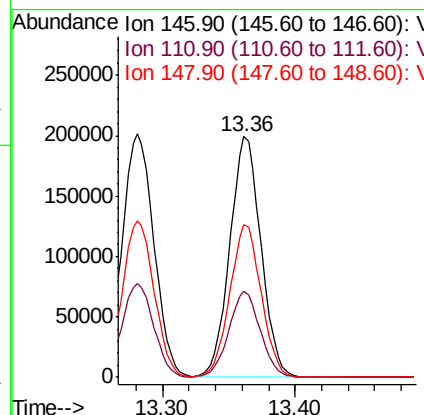
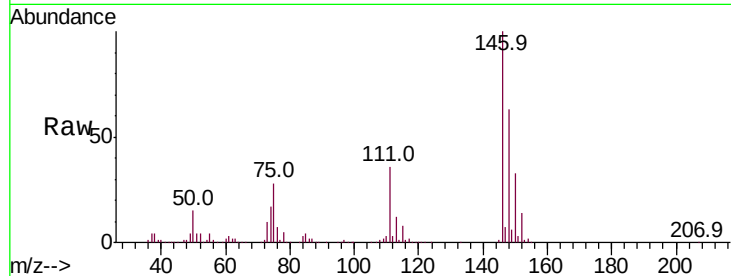
#88
 1,4-Dichlorobenzene
 Concen: 48.402 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.1	18.4	55.4
148	64.0	32.4	97.0

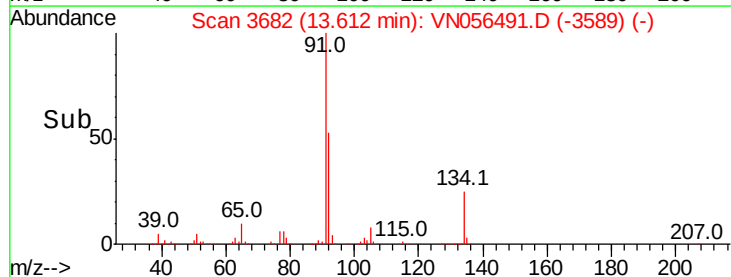
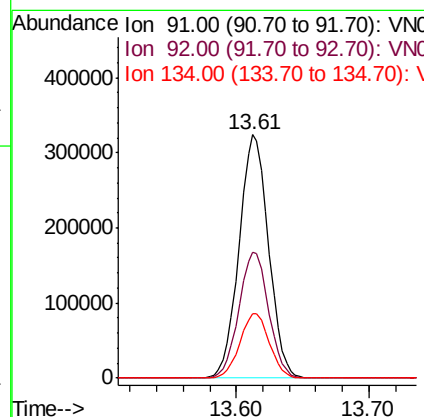
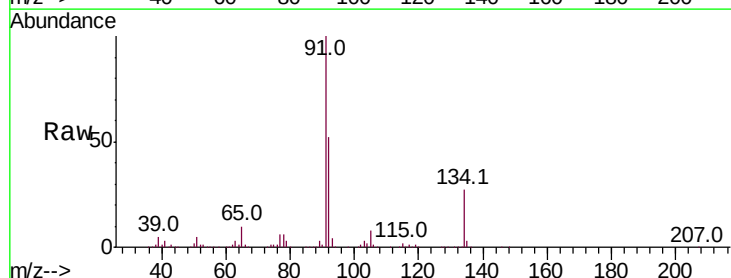
Manual Integrations
 APPROVED

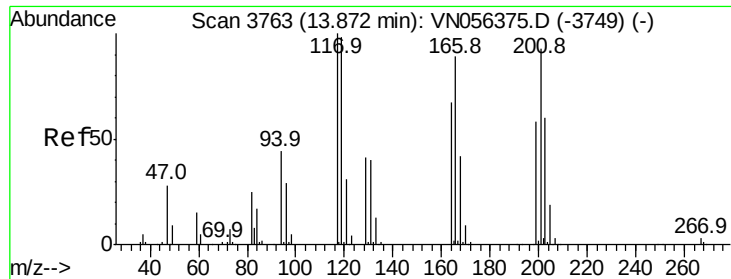
MMDadoda
 6/26/2019 9:28:32 AM



#89
 n-Butylbenzene
 Concen: 46.640 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.2	78.5
134	26.6	13.4	40.2





#90

Hexachloroethane

Concen: 50.097 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion:117 Resp: 110275

Ion Ratio Lower Upper

117 100

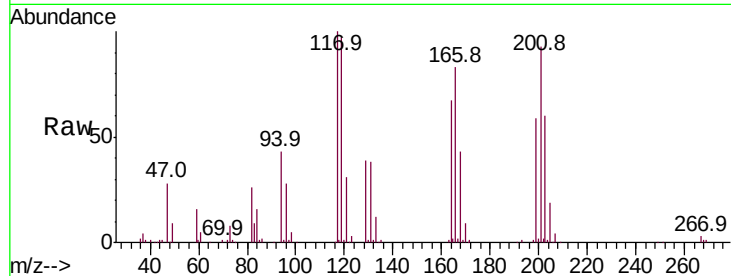
201 91.1 45.9 137.6

Manual Integrations

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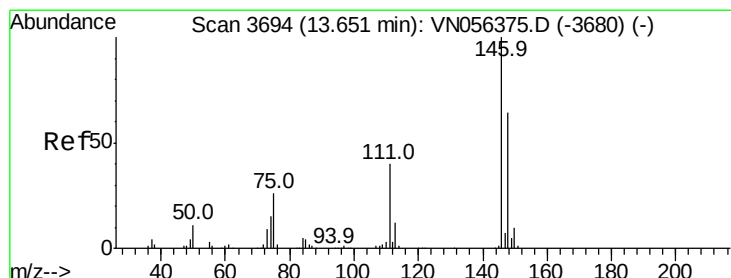
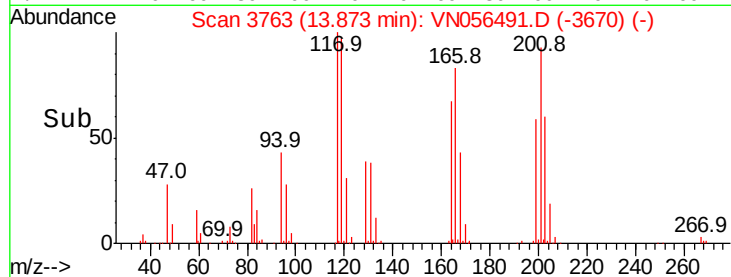
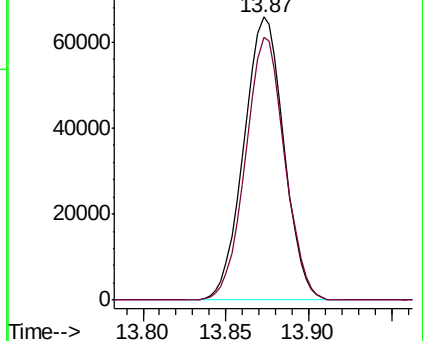
MMDadoda

6/26/2019 9:28:32 AM



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 49.394 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

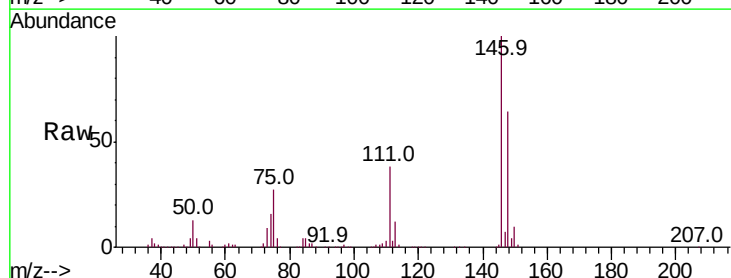
Tgt Ion:146 Resp: 339423

Ion Ratio Lower Upper

146 100

111 38.1 19.3 57.9

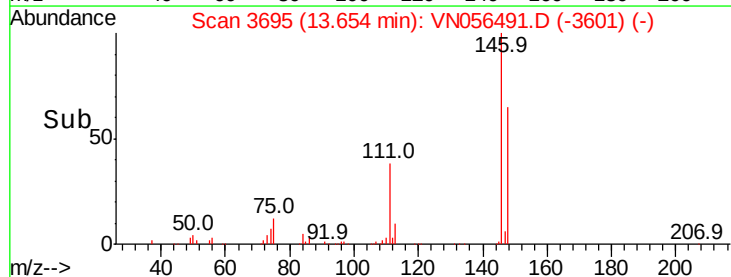
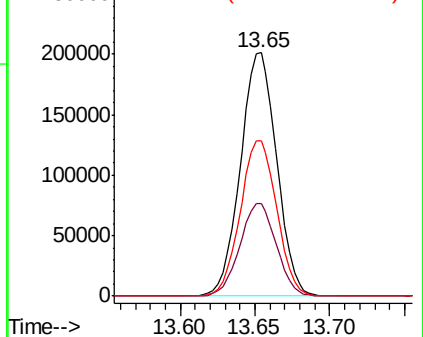
148 64.1 32.0 96.0

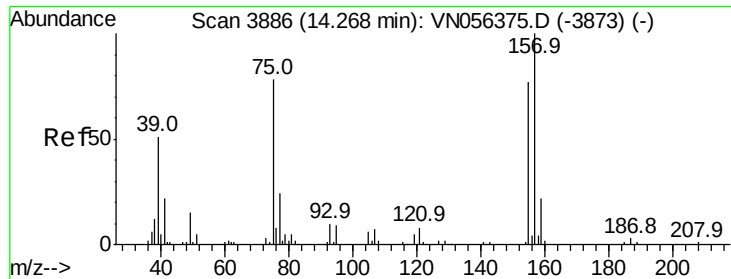


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 54.227 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

ClientSampleId :

SP-19-LF2MW2MS

Tot Ion: 75 Resp: 41012

Ion Ratio Lower Upper

75 100

155 96.8 48.9 146.8

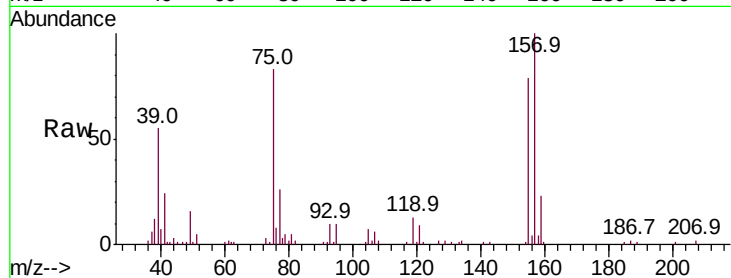
157 121.0 62.9 188.8

Manual Integrations

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MMDadoda

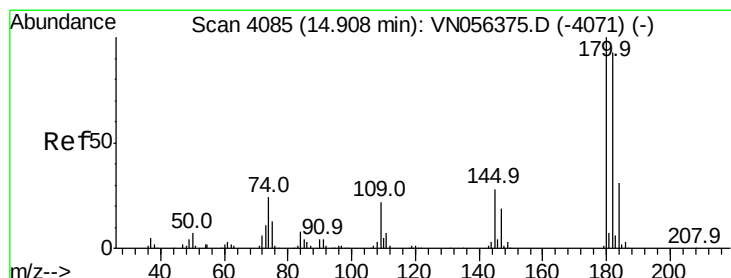
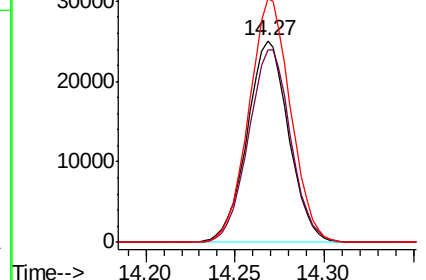
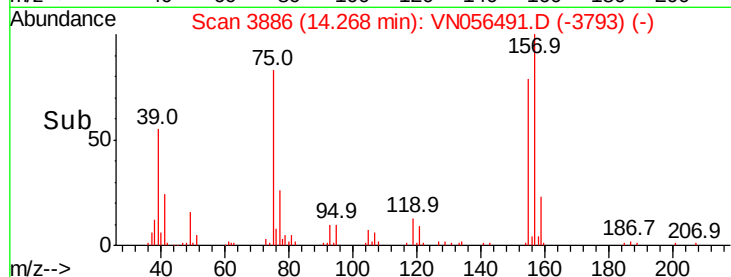
6/26/2019 9:28:32 AM



Abundance Ion 74.90 (74.60 to 75.60): VN056491.D (-3793) (-)

Ion 154.80 (154.50 to 155.50): VN056491.D (-3793) (-)

Ion 156.80 (156.50 to 157.50): VN056491.D (-3793) (-)



#93

1,2,4-Trichlorobenzene

Concen: 38.639 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

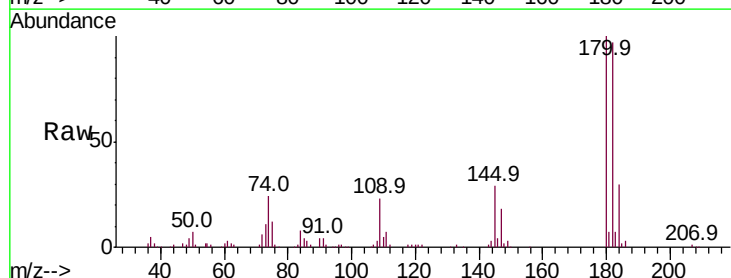
Tgt Ion:180 Resp: 133131

Ion Ratio Lower Upper

180 100

182 95.7 46.9 140.6

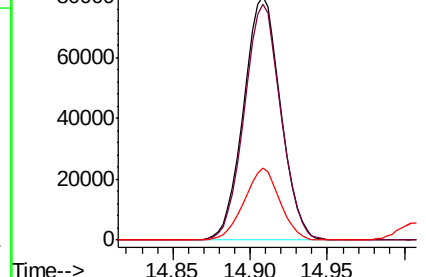
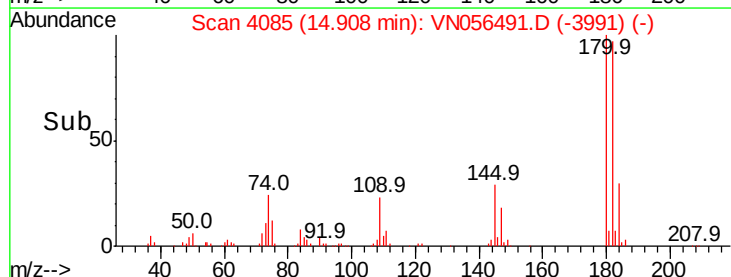
145 28.6 14.4 43.0

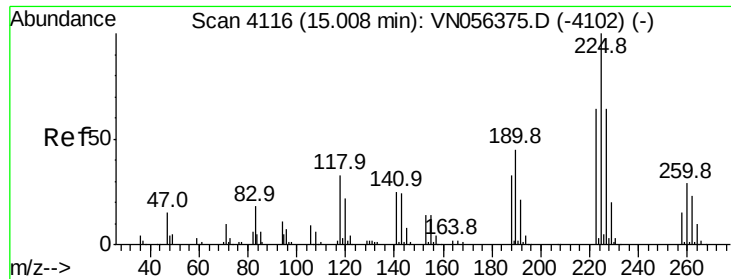


Abundance Ion 179.80 (179.50 to 180.50): VN056491.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN056491.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN056491.D (-3991) (-)





#94

Hexachlorobutadiene

Concen: 50.831 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN056491.D

Acq: 25 Jun 2019 16:58

Instrument :

MSVOA_N

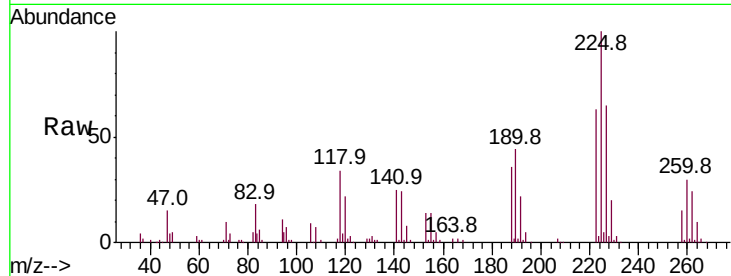
ClientSampleId :

SP-19-LF2MW2MS

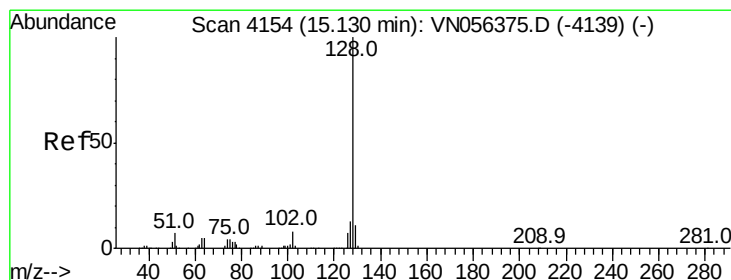
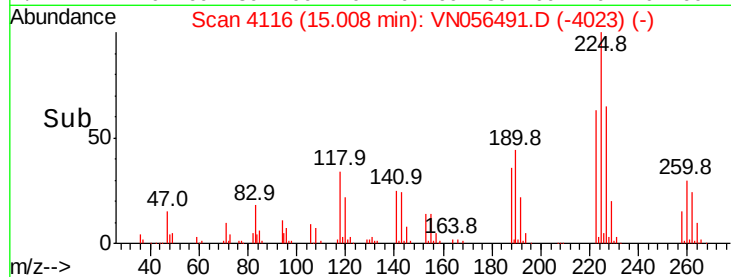
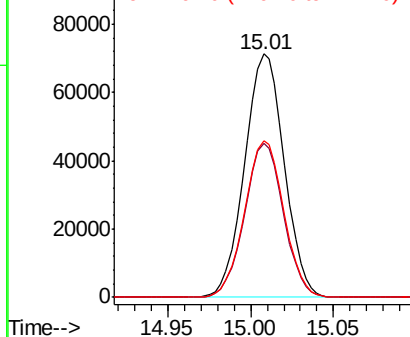
Tot Ion:	225	Resp:	118301
Ion Ratio	Lower	Upper	
225	100		
223	62.0	31.4	94.3
227	63.6	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
6/26/2019 9:28:32 AM



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



#95

Naphthalene

Concen: 40.320 ug/l

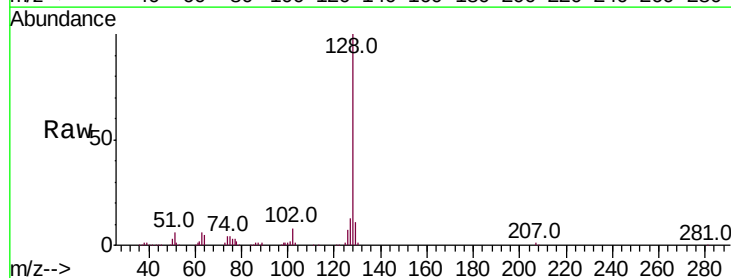
RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

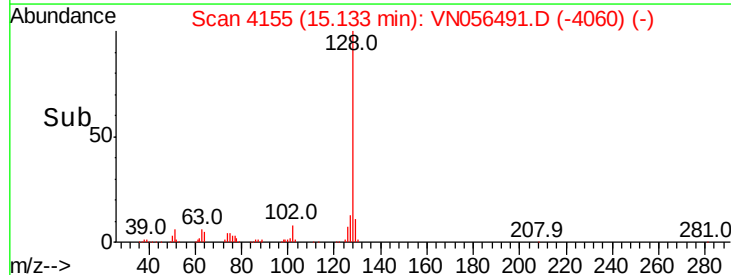
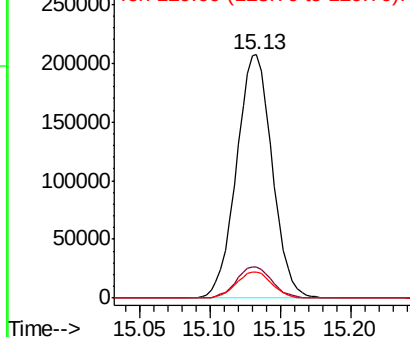
Lab File: VN056491.D

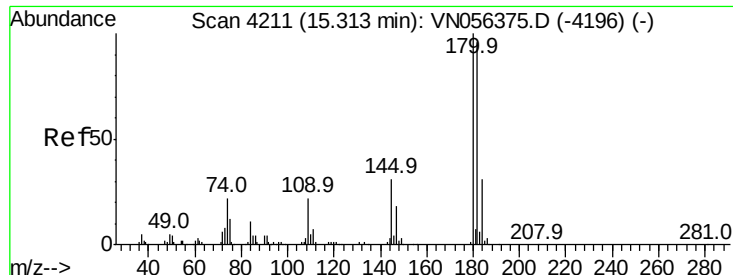
Acq: 25 Jun 2019 16:58

Tgt Ion:	128	Resp:	366487
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.2	15.2
129	10.8	8.6	12.8



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





#96
 1,2,3-Trichlorobenzene
 Concen: 40.495 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN056491.D
 Acq: 25 Jun 2019 16:58

Instrument :
 MSVOA_N
 ClientSampleId :
 SP-19-LF2MW2MS

Tot Ion	Ratio	Resp Lower	Upper
180	100		
182	94.4	48.3	144.8
145	30.9	15.4	46.1

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 9:28:32 AM

