

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056811.D
 Acq On : 18 Jul 2019 14:23
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 11:31:42 PM

Quant Time: Jul 19 05:57:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	329771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	489315	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	438095	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	197564	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	179294	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
35) Dibromofluoromethane	7.59	113	157366	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
50) Toluene-d8	10.09	98	608413	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
62) 4-Bromofluorobenzene	12.40	95	209889	52.92	ug/l	0.00
Spiked Amount			Recovery	=	105.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	135727	43.832	ug/l	99
3) Chloromethane	2.06	50	178486	42.873	ug/l	99
4) Vinyl Chloride	2.18	62	176662	44.066	ug/l	99
5) Bromomethane	2.54	94	105135m	44.595	ug/l	
6) Chloroethane	2.69	64	101766	43.561	ug/l	97
7) Trichlorofluoromethane	3.00	101	235657	45.810	ug/l	99
8) Diethyl Ether	3.41	74	93766	46.752	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	147610	47.761	ug/l	99
10) Methyl Iodide	3.95	142	192879	46.658	ug/l	100
11) Tert butyl alcohol	4.79	59	142946	235.433	ug/l	99
12) 1,1-Dichloroethene	3.73	96	142034	45.817	ug/l	97
13) Acrolein	3.60	56	32458	160.507	ug/l	97
14) Allyl chloride	4.32	41	248683	46.386	ug/l	99
15) Acrylonitrile	4.98	53	418814	238.859	ug/l	99
16) Acetone	3.81	43	396526	235.892	ug/l	100
17) Carbon Disulfide	4.05	76	351968	42.965	ug/l	98
18) Methyl Acetate	4.32	43	176656	46.729	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	463207	46.896	ug/l	98
20) Methylene Chloride	4.55	84	170079	46.300	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	150836	46.030	ug/l	95
22) Diisopropyl ether	5.95	45	514302	48.601	ug/l	99
23) Vinyl Acetate	5.89	43	2117579	246.944	ug/l	100
24) 1,1-Dichloroethane	5.84	63	287249	46.820	ug/l	99
25) 2-Butanone	6.83	43	578511	235.399	ug/l	99
26) 2,2-Dichloropropane	6.82	77	215793	48.781	ug/l	100
27) cis-1,2-Dichloroethene	6.82	96	180018	47.742	ug/l	99
28) Bromochloromethane	7.19	49	135981	47.140	ug/l	100
29) Tetrahydrofuran	7.21	42	373430	232.971	ug/l	99
30) Chloroform	7.37	83	284304	46.308	ug/l	98
31) Cyclohexane	7.65	56	268980	46.127	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	233812	48.155	ug/l	100
36) 1,1-Dichloropropene	7.79	75	216656	47.849	ug/l	99
37) Ethyl Acetate	6.93	43	219161	49.110	ug/l	98
38) Carbon Tetrachloride	7.77	117	204169	48.082	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	274147	49.034	ug/l	96
40) Benzene	8.04	78	663990	47.859	ug/l	98
41) Methacrylonitrile	7.18	41	91624m	46.740	ug/l	
42) 1,2-Dichloroethane	8.12	62	213524	48.697	ug/l	99
43) Isopropyl Acetate	8.16	43	348923	49.734	ug/l	100
44) Trichloroethene	8.83	130	181994	48.306	ug/l	97
45) 1,2-Dichloropropane	9.12	63	181690	49.285	ug/l	97
46) Dibromomethane	9.21	93	115515	50.564	ug/l	98
47) Bromodichloromethane	9.40	83	216792	49.938	ug/l	97
48) Methyl methacrylate	9.20	41	175735	51.795	ug/l	97
49) 1,4-Dioxane	9.20	88	72109	1035.767	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	1111629	244.637	ug/l	99
52) Toluene	10.15	92	415491	50.427	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	232228	51.273	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	268556	51.096	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	169136	48.942	ug/l	98
56) Ethyl methacrylate	10.43	69	258227	51.931	ug/l	100
57) 1,3-Dichloropropane	10.71	76	281457	49.866	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	595267	248.947	ug/l	100
59) 2-Hexanone	10.75	43	822244	252.185	ug/l	99
60) Dibromochloromethane	10.90	129	173520	51.054	ug/l	98
61) 1,2-Dibromoethane	11.00	107	171708	49.996	ug/l	99
64) Tetrachloroethene	10.63	164	182413	48.263	ug/l	98
65) Chlorobenzene	11.43	112	447411	49.946	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	163319	49.518	ug/l	98
67) Ethyl Benzene	11.51	91	784838	49.854	ug/l	100
68) m/p-Xylenes	11.62	106	593991	100.960	ug/l	99
69) o-Xylene	11.95	106	284862	49.249	ug/l	98
70) Styrene	11.96	104	486317	52.006	ug/l	100
71) Bromoform	12.13	173	127263	50.712	ug/l #	98
73) Isopropylbenzene	12.25	105	769507	48.306	ug/l	100
74) N-amyl acetate	12.07	43	286459	48.285	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.50	83	237572	51.563	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	210479m	48.710	ug/l	
77) Bromobenzene	12.52	156	199934	47.985	ug/l	98
78) n-propylbenzene	12.59	91	860081	48.634	ug/l	100
79) 2-Chlorotoluene	12.67	91	513857	52.669	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	654046	48.444	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	72085	51.521	ug/l	99
82) 4-Chlorotoluene	12.77	91	512064	49.340	ug/l	99
83) tert-Butylbenzene	12.99	119	552451	52.565	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	647140	49.064	ug/l	100
85) sec-Butylbenzene	13.17	105	737193	49.139	ug/l	100
86) p-Isopropyltoluene	13.29	119	676422	49.772	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	334404	48.973	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	326499	49.157	ug/l	100
89) n-Butylbenzene	13.61	91	561211	51.265	ug/l	99
90) Hexachloroethane	13.87	117	108332	49.292	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	333356	47.733	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	40470	47.378	ug/l	99

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VSTDCCC050

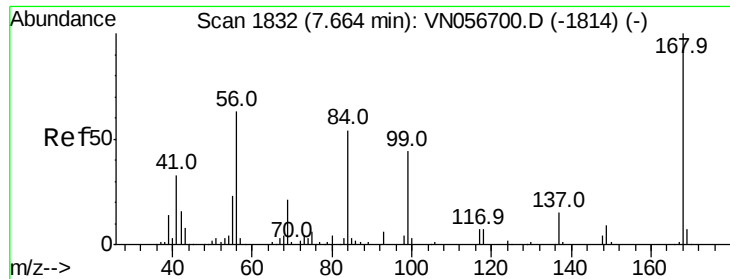
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	171996	44.980	ug/l	100
94) Hexachlorobutadiene	15.01	225	119164	54.425	ug/l	100
95) Naphthalene	15.13	128	421449	40.737	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	171147	45.033	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: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 329771

Ion Ratio Lower Upper

168 100

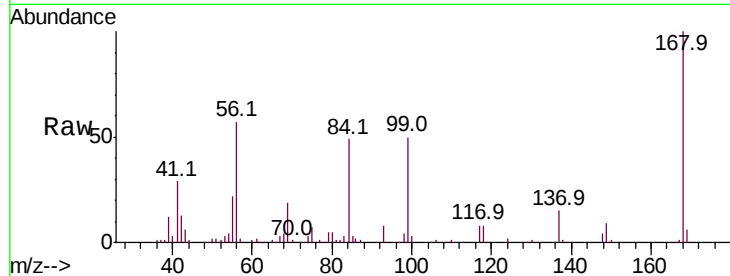
99 50.1 39.4 59.2

Manual Integrations

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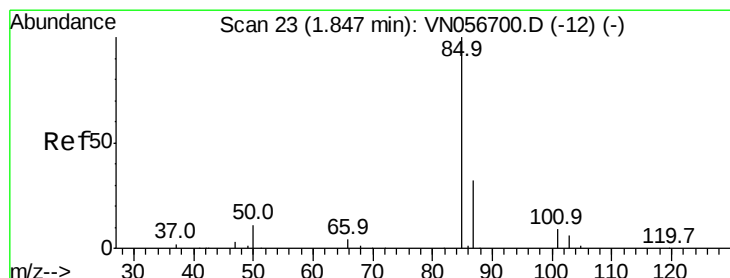
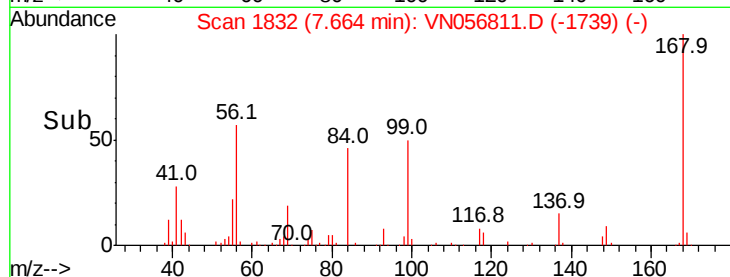
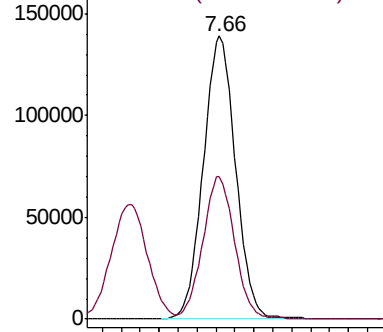
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 43.832 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN056811.D

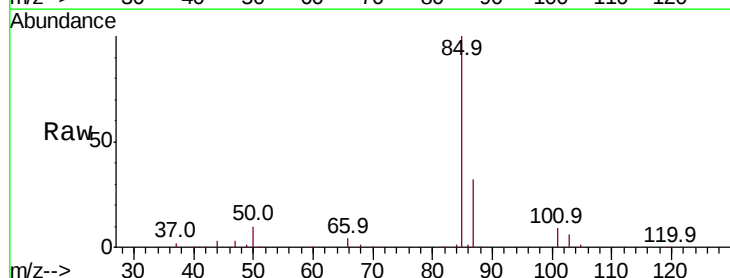
Acq: 18 Jul 2019 14:23

Tgt Ion: 85 Resp: 135727

Ion Ratio Lower Upper

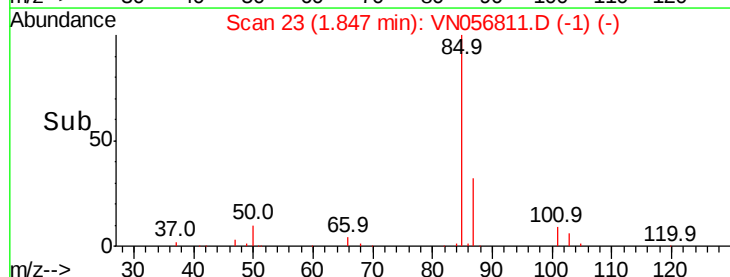
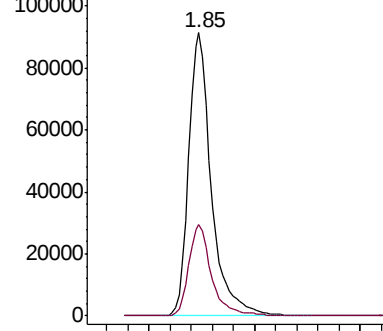
85 100

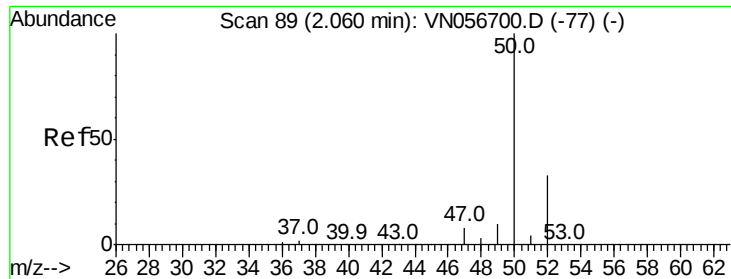
87 32.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





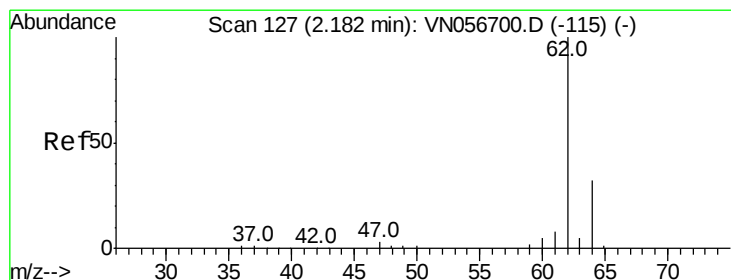
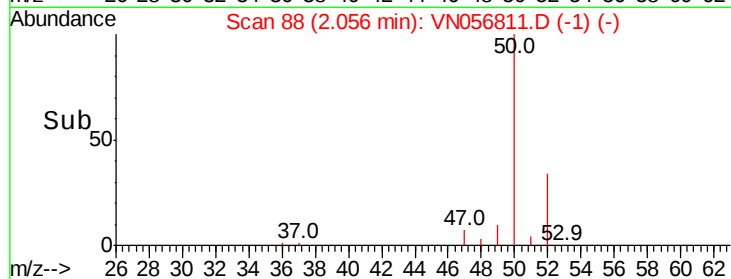
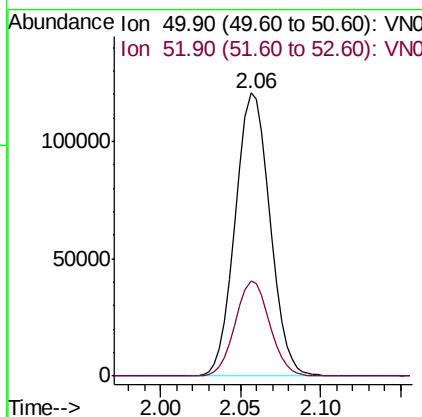
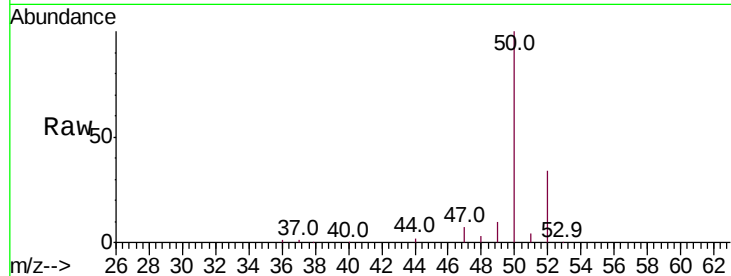
#3
Chloromethane
Concen: 42.873 ug/l
RT: 2.06 min Scan# 88
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7

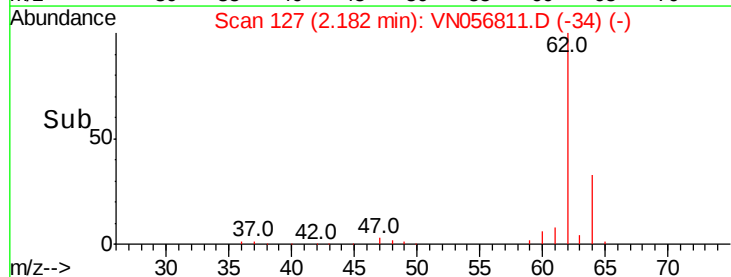
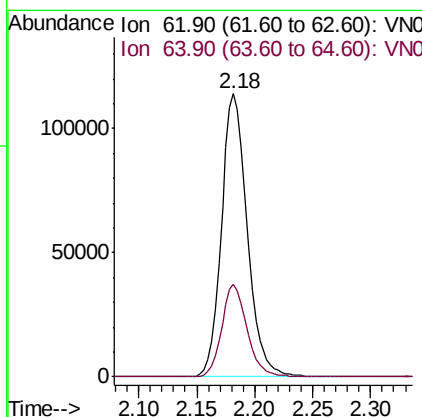
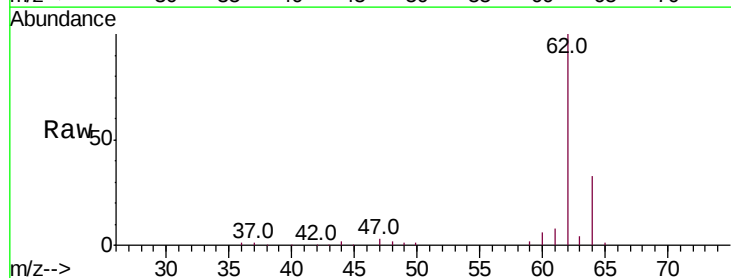
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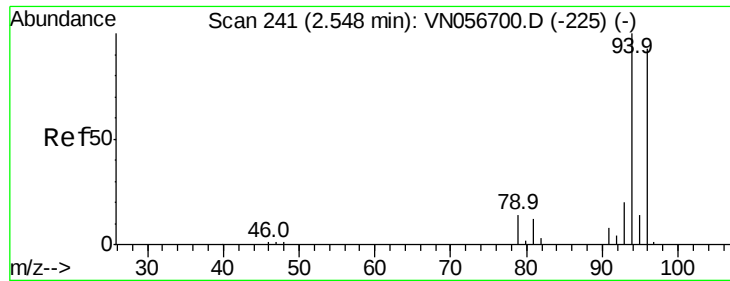
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#4
Vinyl Chloride
Concen: 44.066 ug/l
RT: 2.18 min Scan# 127
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.6	38.4





#5

Bromomethane

Concen: 44.595 ug/l m

RT: 2.54 min Scan# 238

Delta R.T. -0.01 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tot Ion: 94 Resp: 105135

Ion Ratio Lower Upper

94 100

96 92.4 74.0 111.0

Instrument :

MSVOA_N

ClientSampleId :

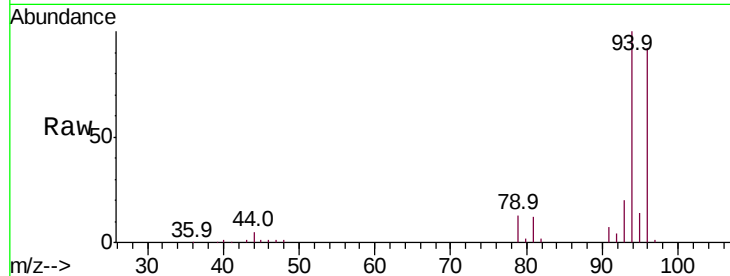
VSTDCCC050

Manual Integrations

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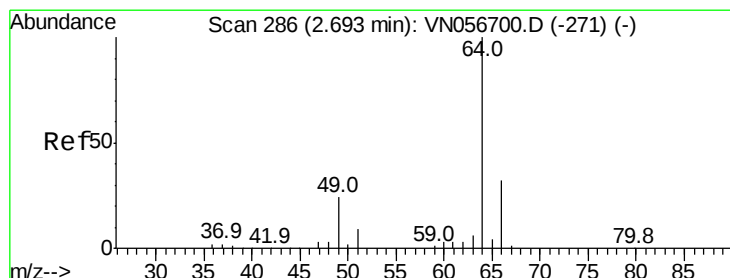
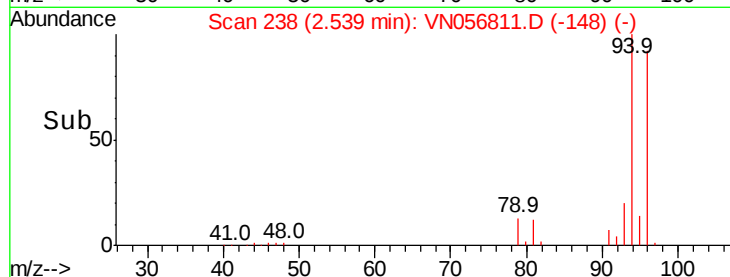
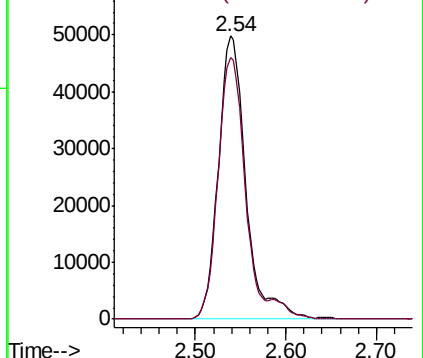
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 43.561 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.01 min

Lab File: VN056811.D

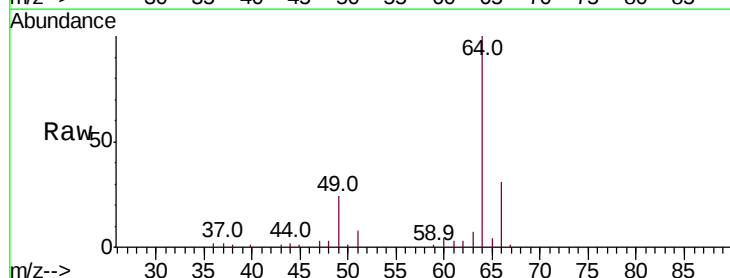
Acq: 18 Jul 2019 14:23

Tgt Ion: 64 Resp: 101766

Ion Ratio Lower Upper

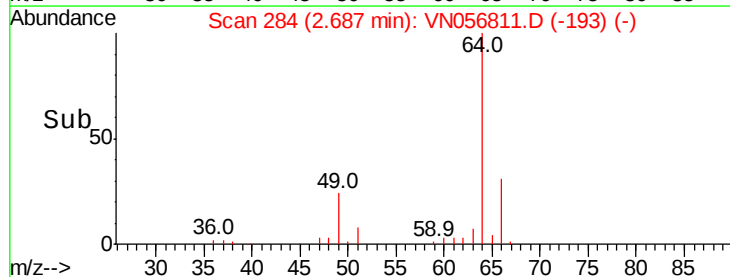
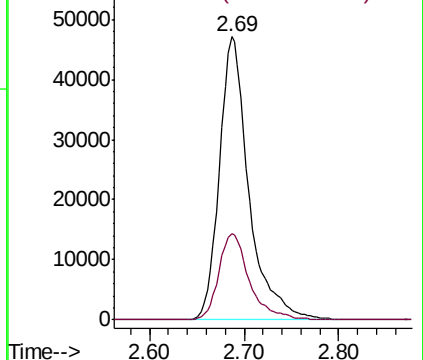
64 100

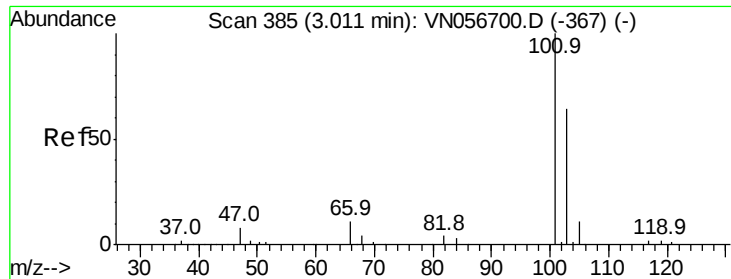
66 30.7 25.8 38.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

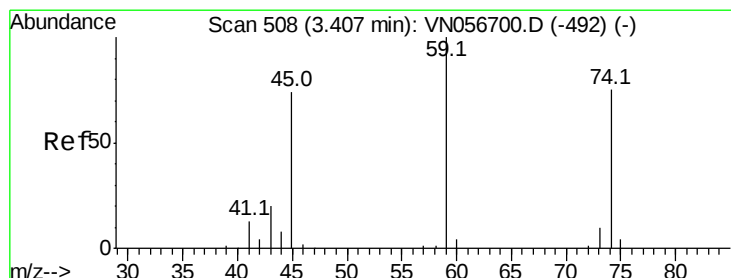
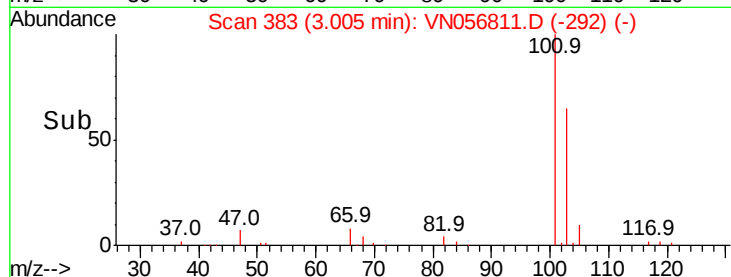
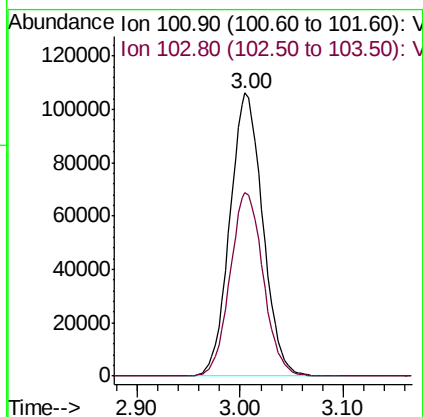
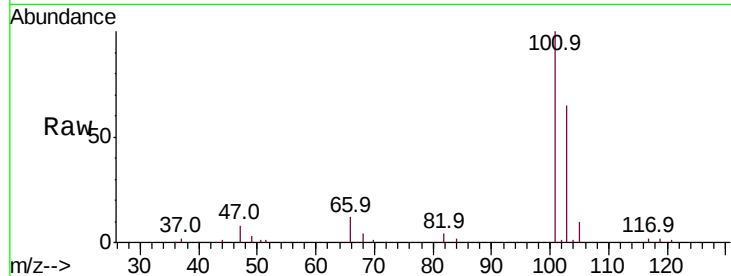
Trichlorofluoromethane
Concen: 45.810 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.01 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.9	51.5	77.3

Manual Integrations
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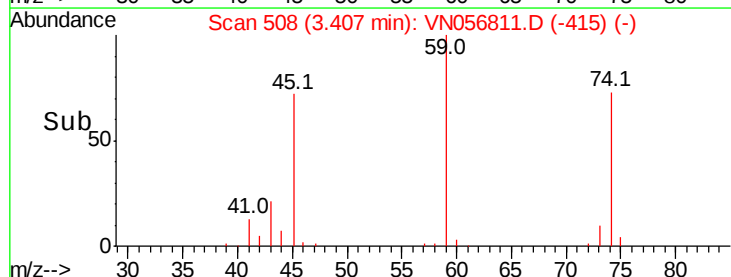
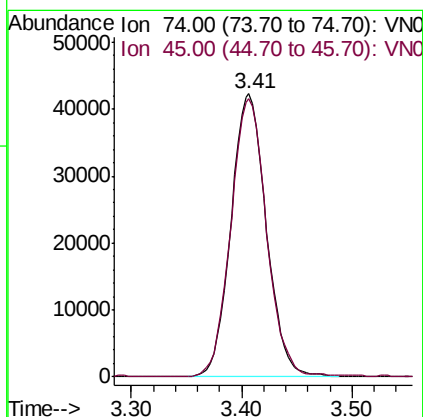
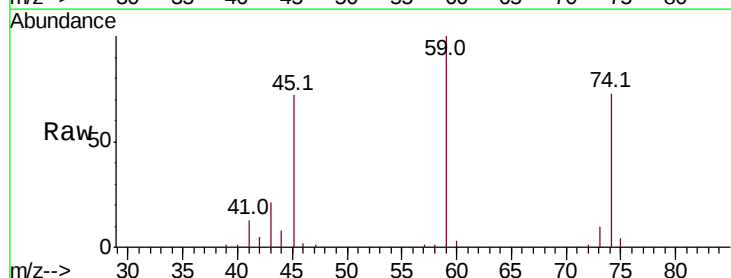
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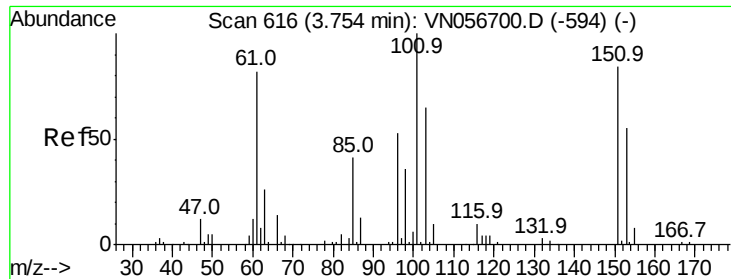


#8

Diethyl Ether
Concen: 46.752 ug/l
RT: 3.41 min Scan# 508
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
74	100		
45	99.0	49.4	148.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.761 ug/l

RT: 3.75 min Scan# 616

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

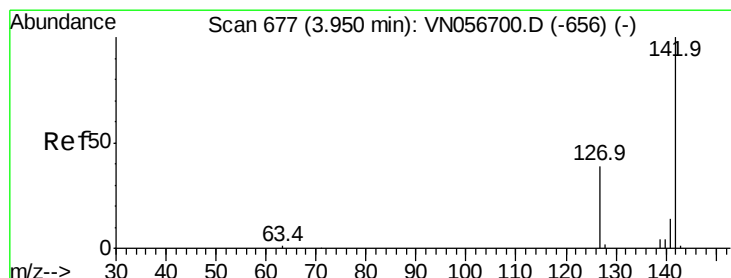
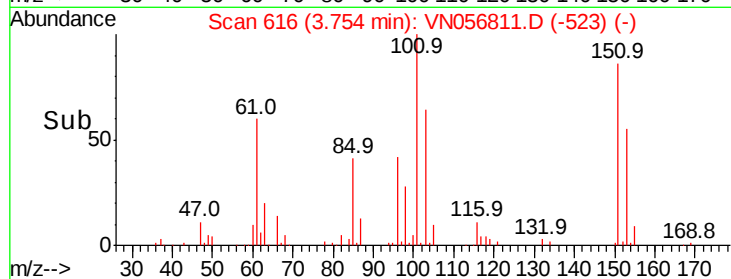
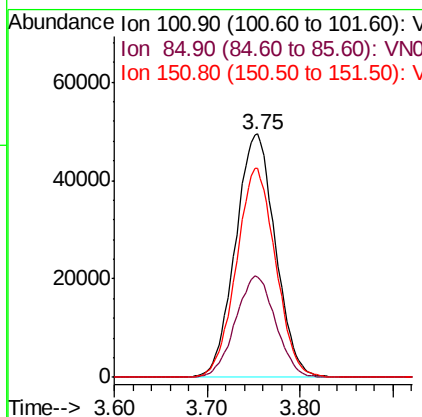
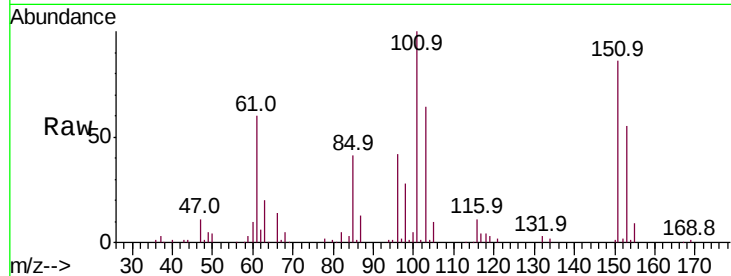
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	147610
Ion Ratio	Lower	Upper	
101	100		
85	41.7	33.3	49.9
151	84.4	67.0	100.6

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#10

Methyl Iodide

Concen: 46.658 ug/l

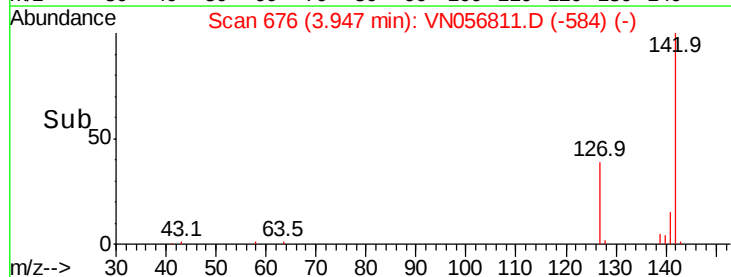
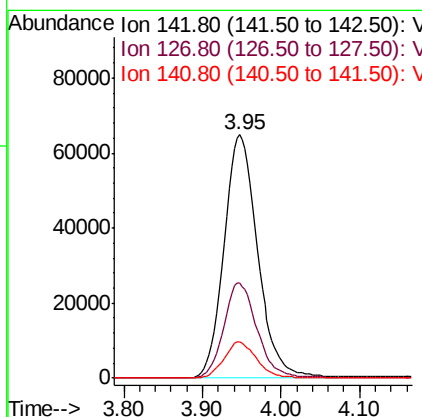
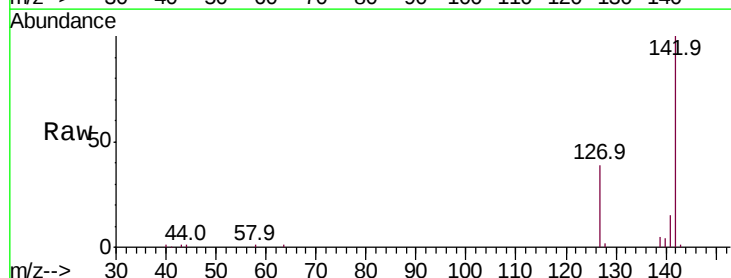
RT: 3.95 min Scan# 676

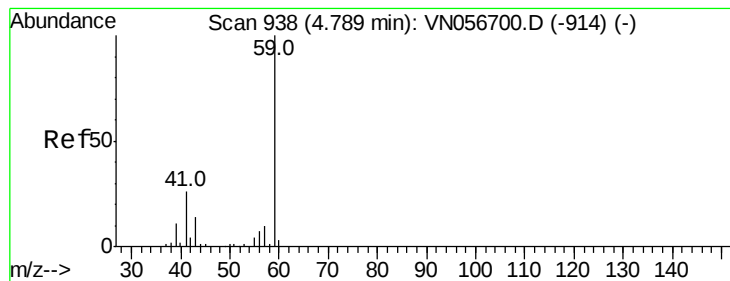
Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tgt Ion:	142	Resp:	192879
Ion Ratio	Lower	Upper	
142	100		
127	38.5	30.7	46.1
141	14.3	11.3	16.9





#11

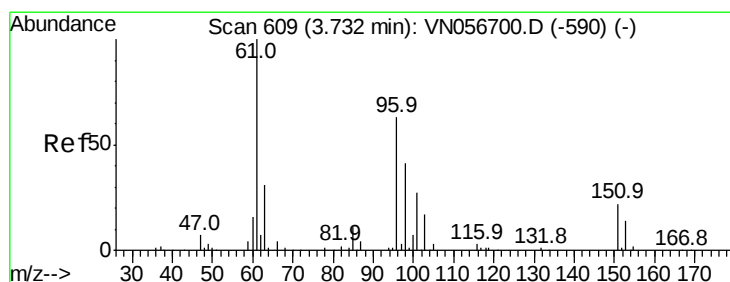
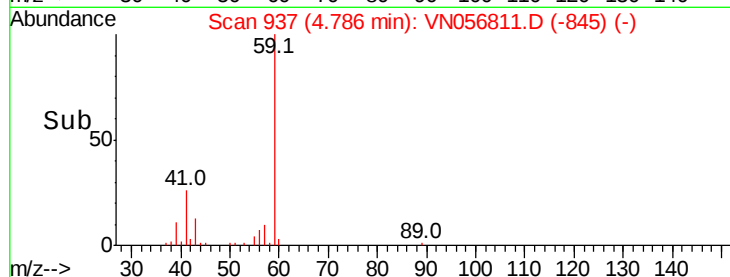
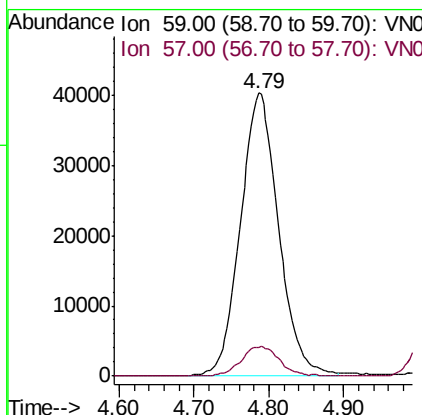
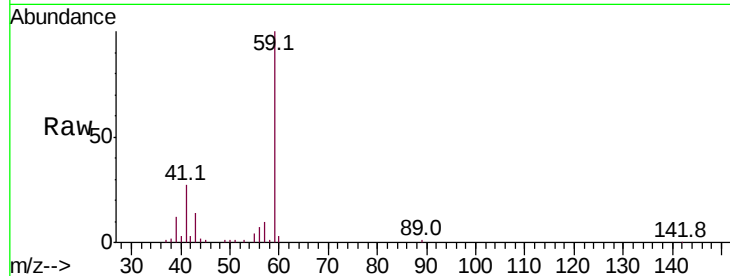
Tert butyl alcohol
Concen: 235.433 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.0	12.0

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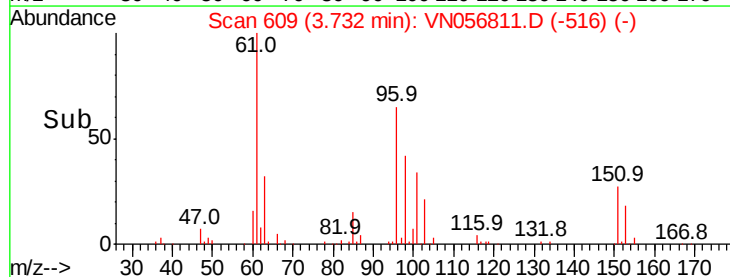
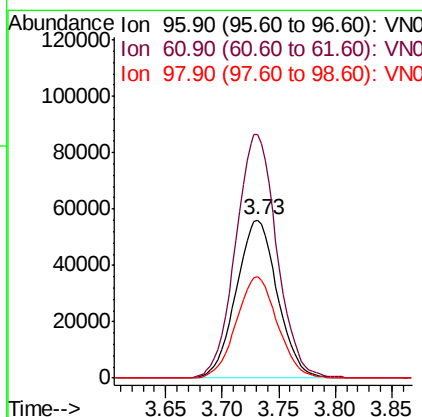
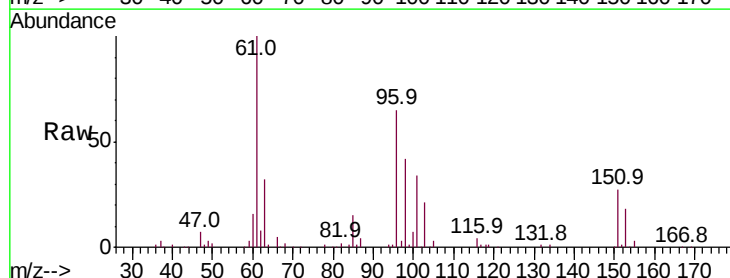
MMDadoda
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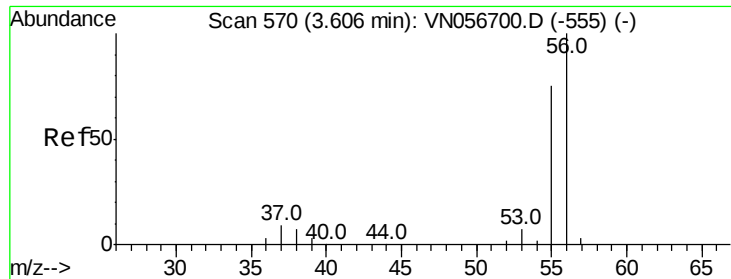


#12

1,1-Dichloroethene
Concen: 45.817 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.6	126.6	189.8
98	64.0	51.4	77.2





#13

Acrolein

Concen: 160.507 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 32458

Ion Ratio Lower Upper

56 100

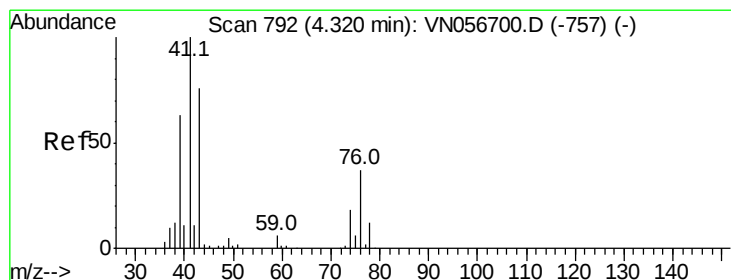
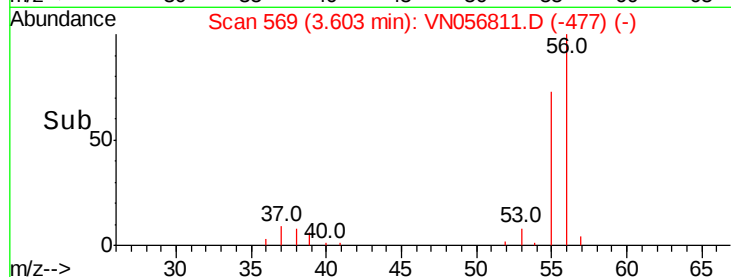
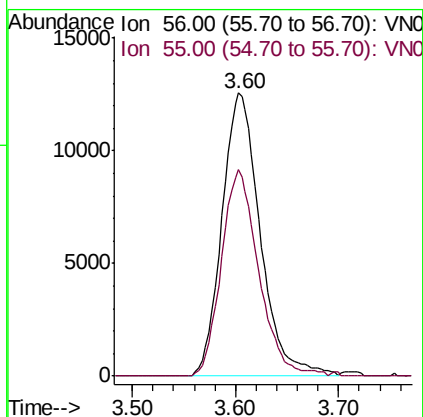
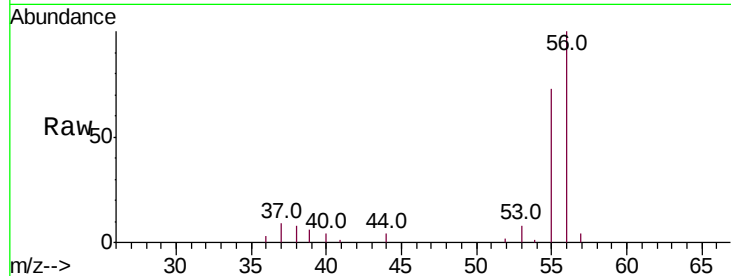
55 70.3 58.0 87.0

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#14

Allyl chloride

Concen: 46.386 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

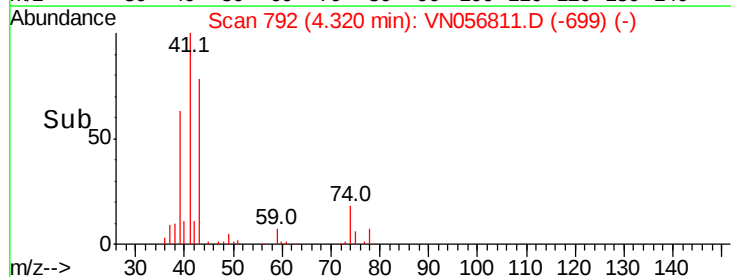
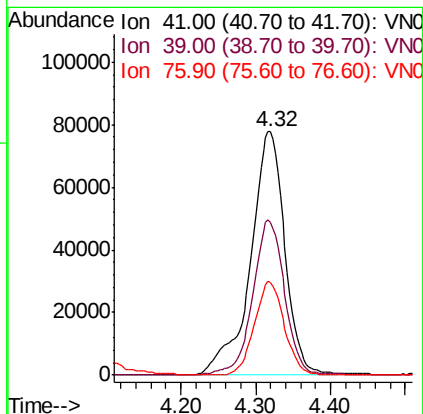
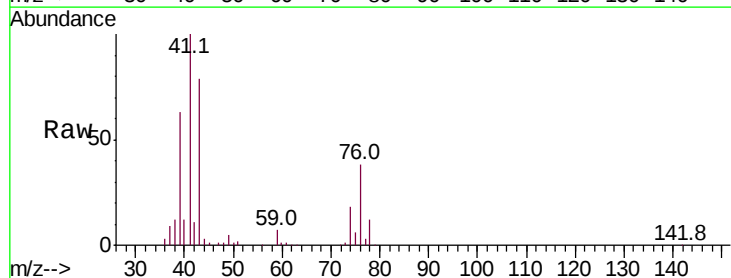
Tgt Ion: 41 Resp: 248683

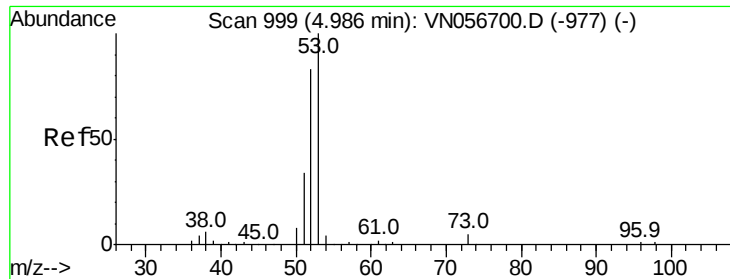
Ion Ratio Lower Upper

41 100

39 59.2 46.9 70.3

76 33.4 26.5 39.7





#15

Acrylonitrile

Concen: 238.859 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

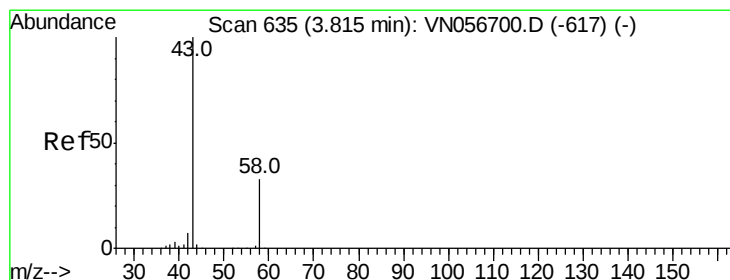
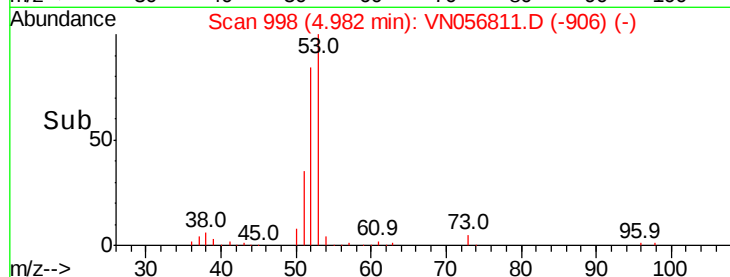
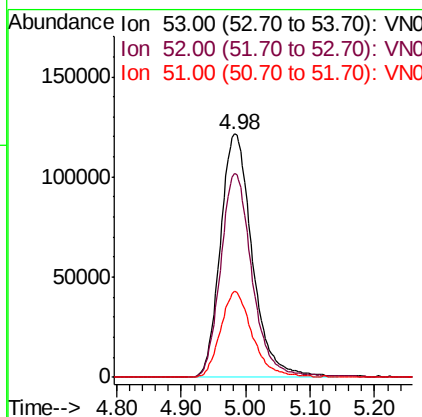
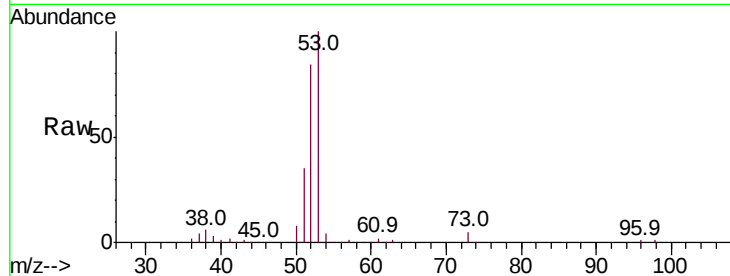
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	418814
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.6	99.8
51	35.2	28.4	42.6

Manual Integrations
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#16

Acetone

Concen: 235.892 ug/l

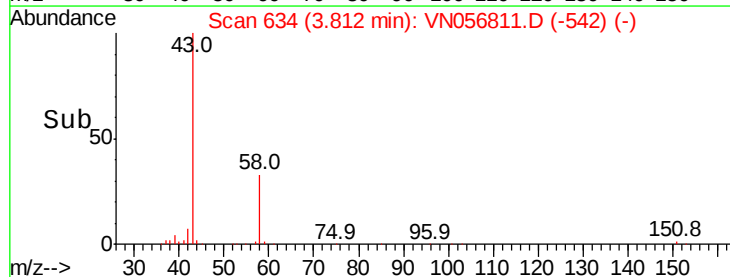
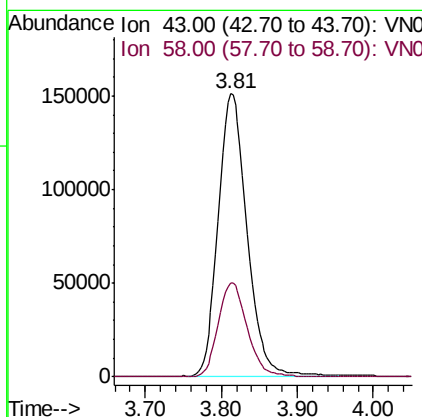
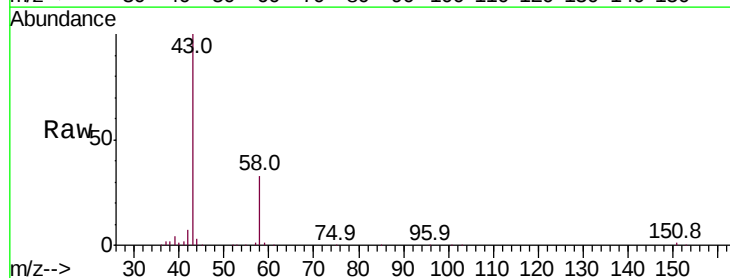
RT: 3.81 min Scan# 634

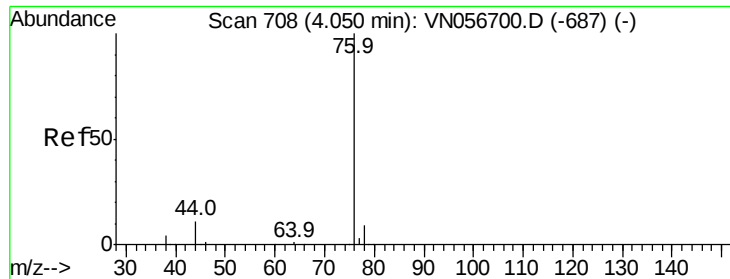
Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tgt Ion:	43	Resp:	396526
Ion	Ratio	Lower	Upper
43	100		
58	33.2	26.7	40.1





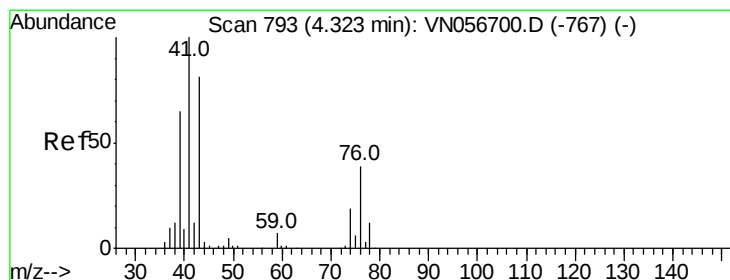
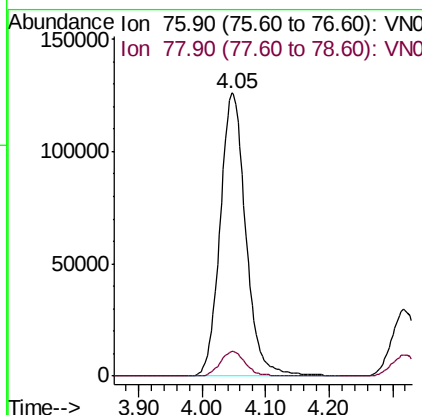
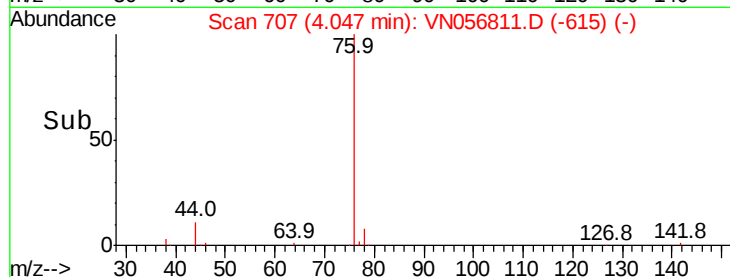
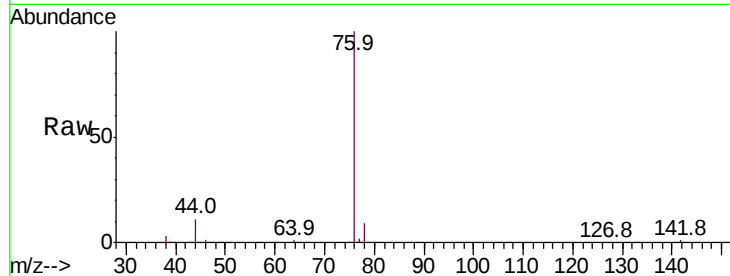
#17
Carbon Disulfide
Concen: 42.965 ug/l
RT: 4.05 min Scan# 707
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 351968
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.0

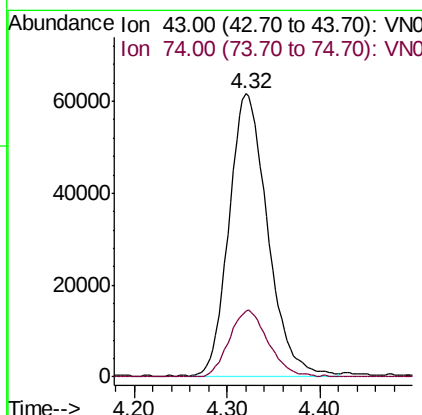
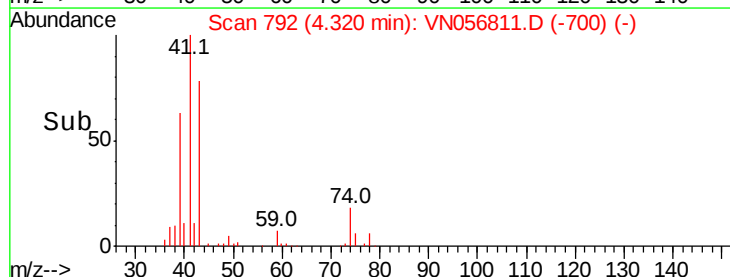
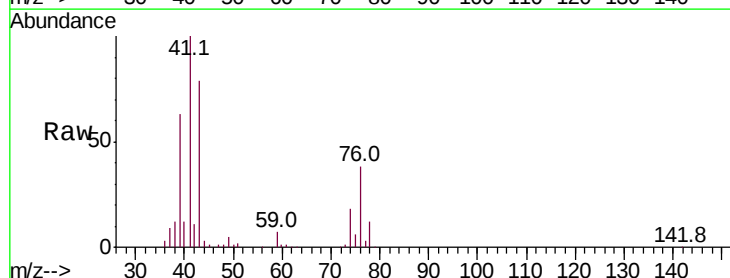
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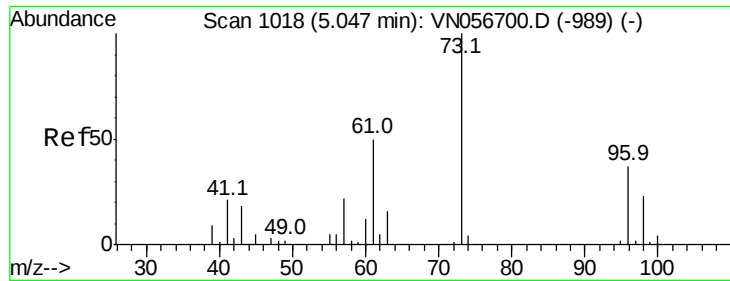
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#18
Methyl Acetate
Concen: 46.729 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion: 43 Resp: 176656
Ion Ratio Lower Upper
43 100
74 24.0 18.9 28.3





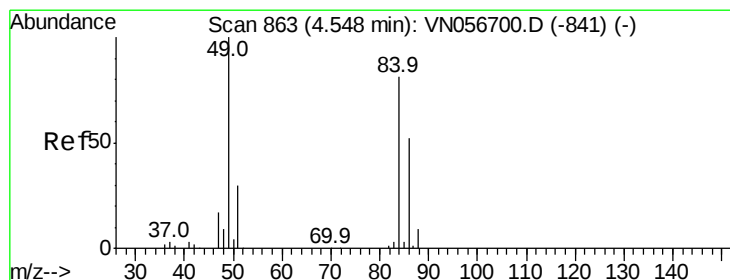
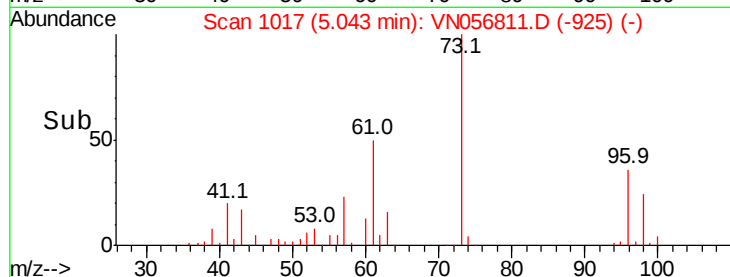
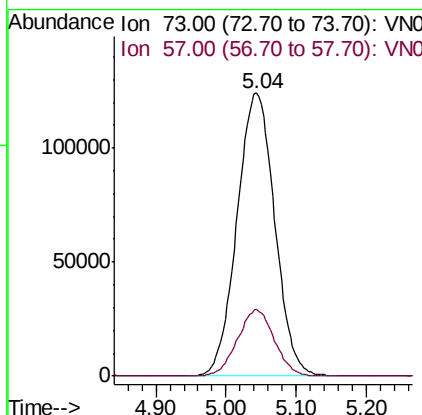
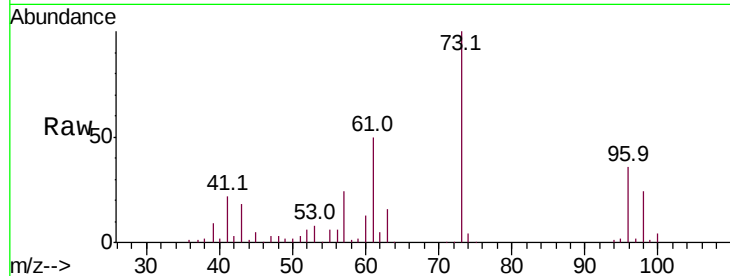
#19
Methvl tert-butvl Ether
Concen: 46.896 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 73 Resp: 463207
Ion Ratio Lower Upper
73 100
57 23.5 17.9 26.9

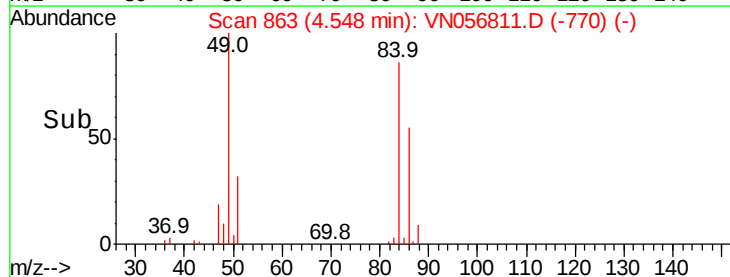
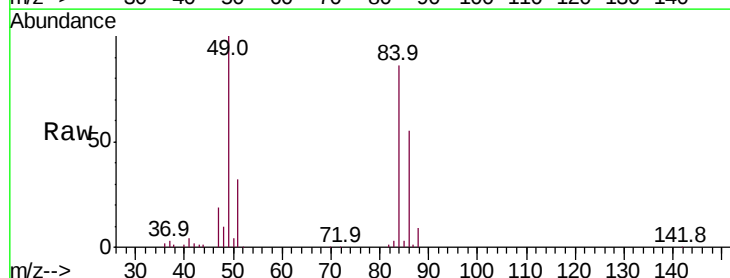
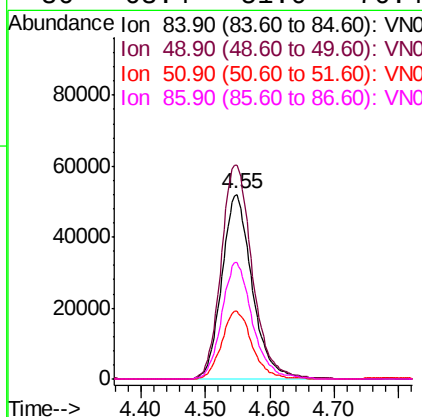
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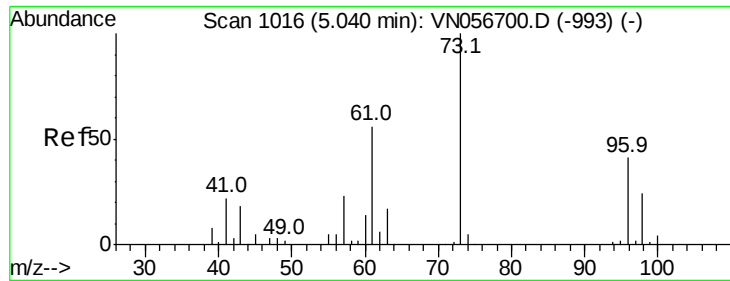
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#20
Methylene Chloride
Concen: 46.300 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion: 84 Resp: 170079
Ion Ratio Lower Upper
84 100
49 115.7 98.2 147.4
51 36.5 29.6 44.4
86 63.4 51.0 76.4





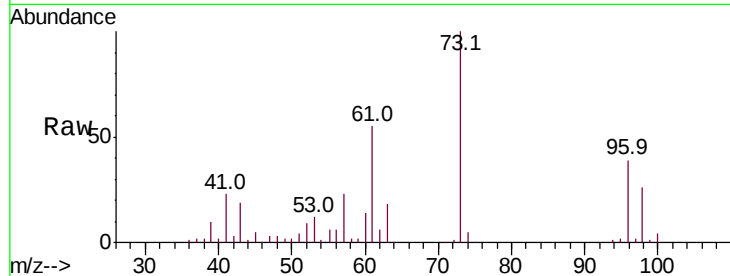
#21
trans-1,2-Dichloroethene
Concen: 46.030 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.3	109.4	164.2
98	66.5	48.0	72.0

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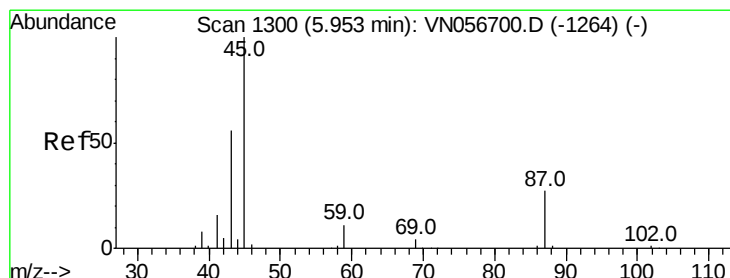
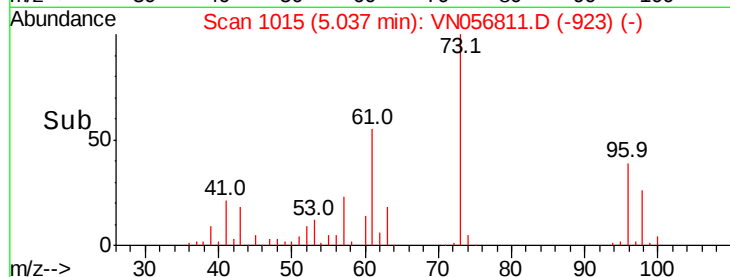
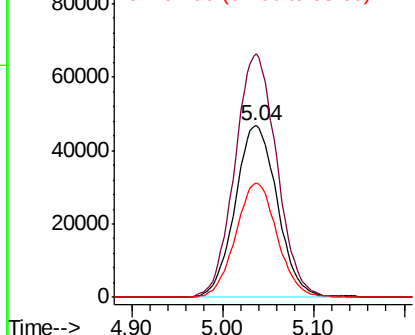


Abundance

Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO



#22
Diisopropyl ether
Concen: 48.601 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.9	45.6	68.4
87	28.0	22.0	33.0
59	11.5	9.3	13.9

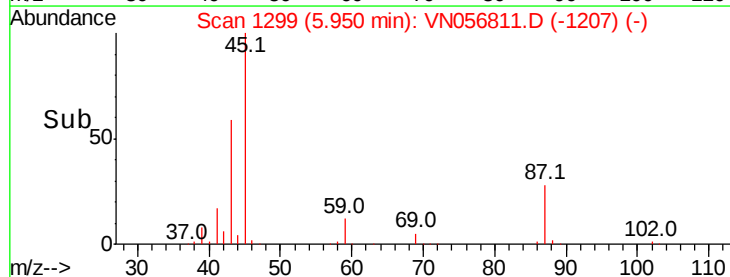
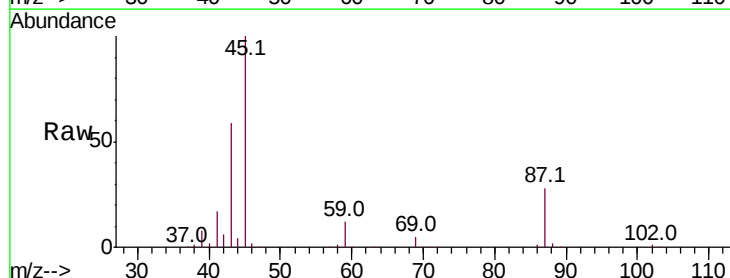
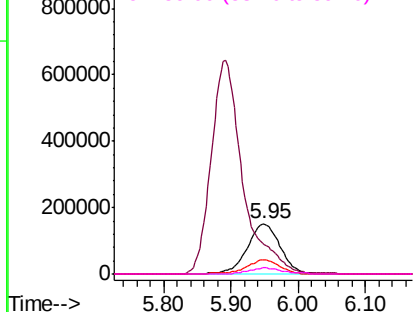
Abundance

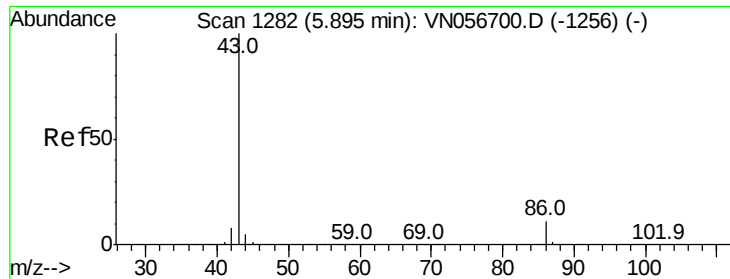
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





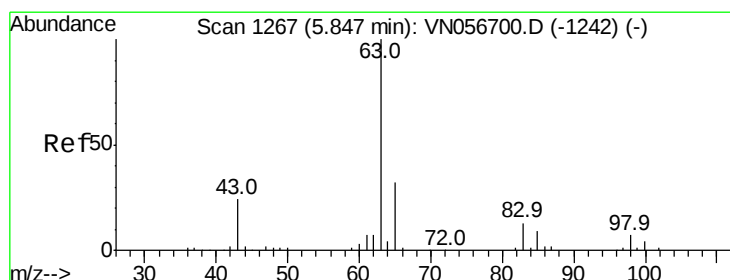
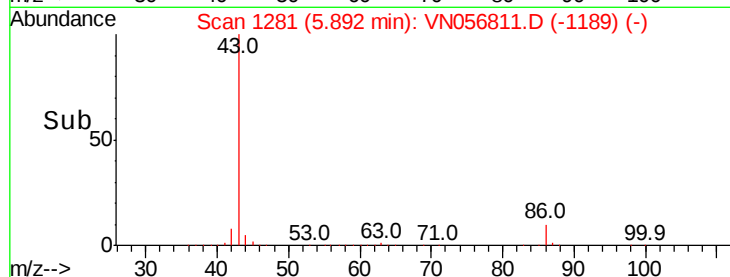
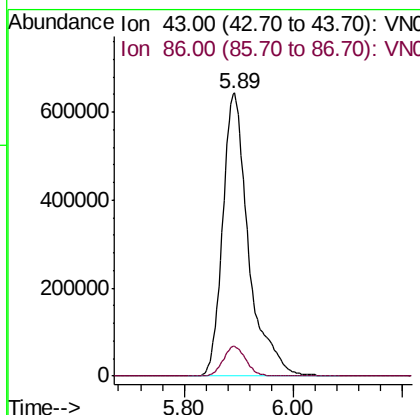
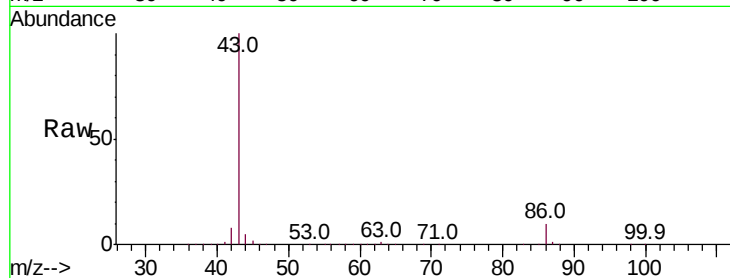
#23
 Vinyl Acetate
 Concen: 246.944 ug/l
 RT: 5.89 min Scan# 1281
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 2117579
 Ion Ratio Lower Upper
 43 100
 86 10.4 8.5 12.7

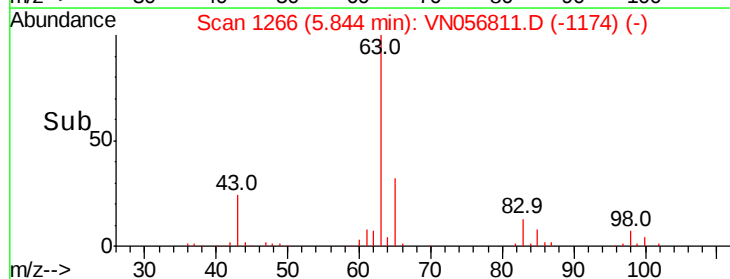
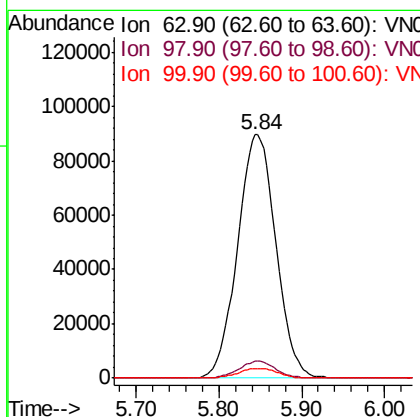
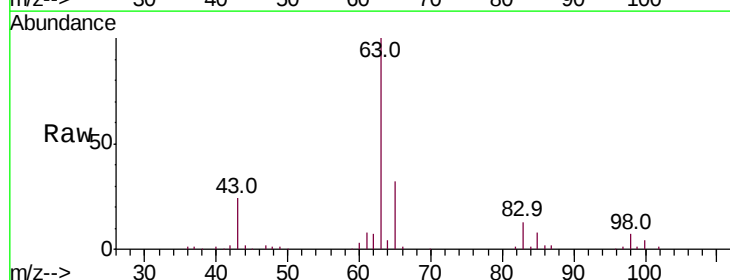
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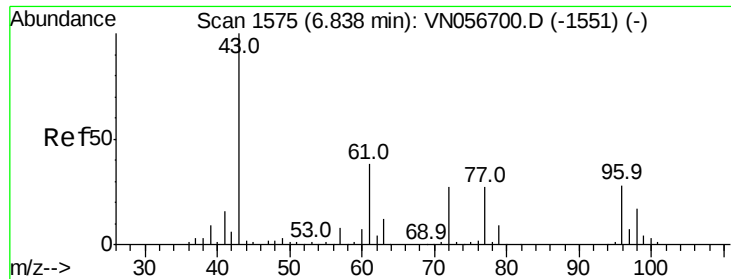
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#24
 1,1-Dichloroethane
 Concen: 46.820 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Tgt Ion: 63 Resp: 287249
 Ion Ratio Lower Upper
 63 100
 98 6.8 3.3 9.9
 100 4.0 2.0 5.8





#25

2-Butanone

Concen: 235.399 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 578511

Ion Ratio Lower Upper

43 100

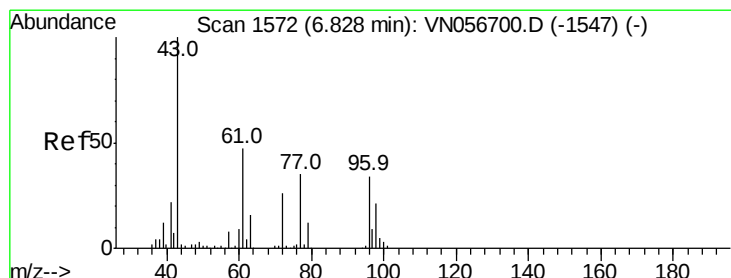
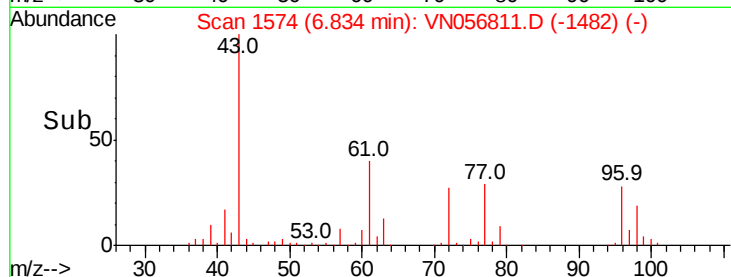
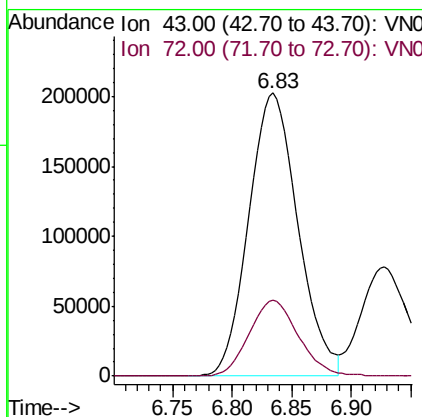
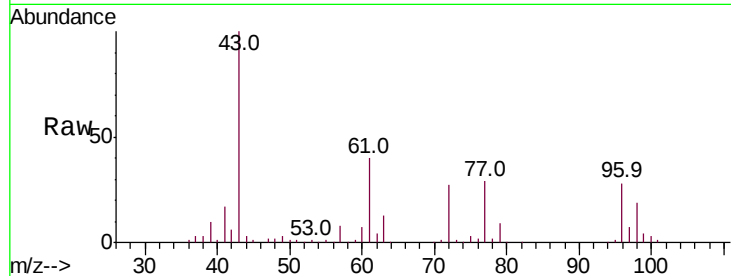
72 26.8 21.2 31.8

Manual Integrations

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MMDadoda

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#26

2,2-Dichloropropane

Concen: 48.781 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN056811.D

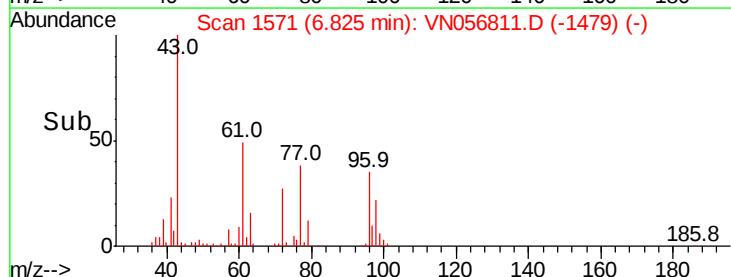
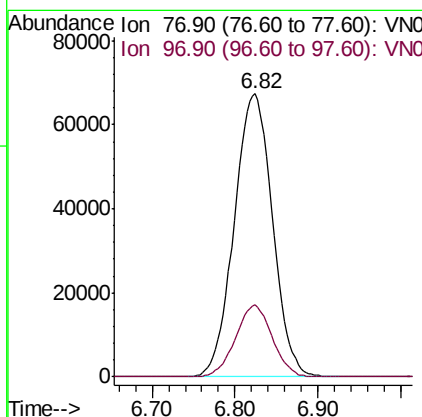
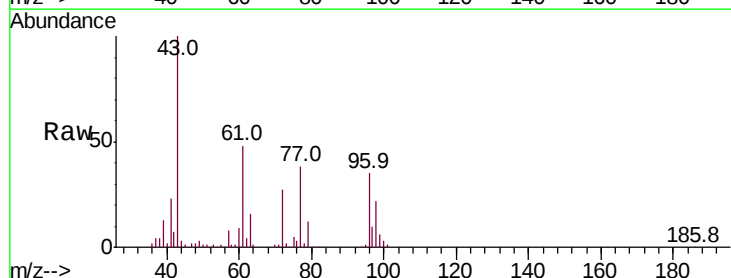
Acq: 18 Jul 2019 14:23

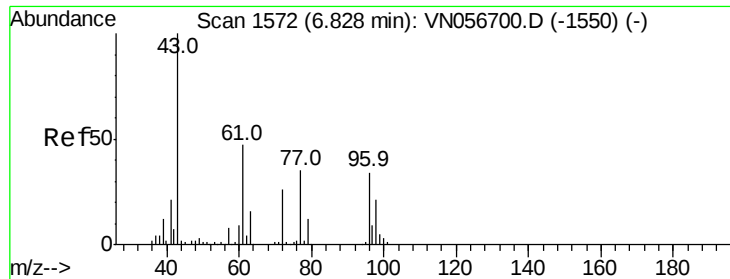
Tgt Ion: 77 Resp: 215793

Ion Ratio Lower Upper

77 100

97 24.4 12.2 36.6





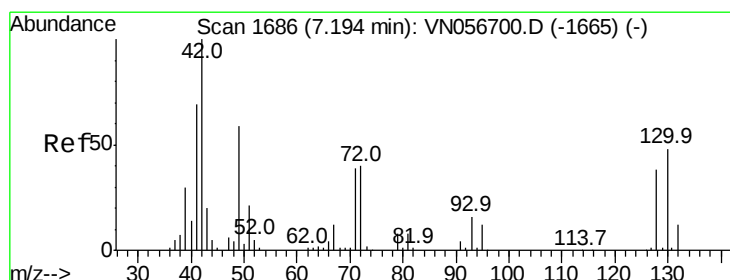
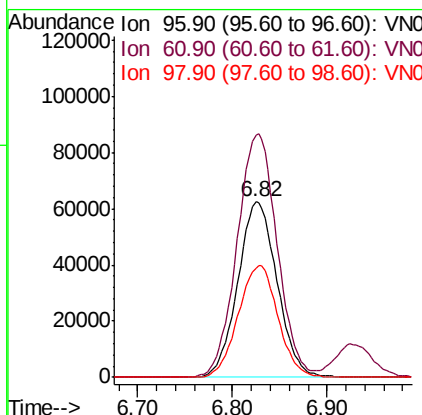
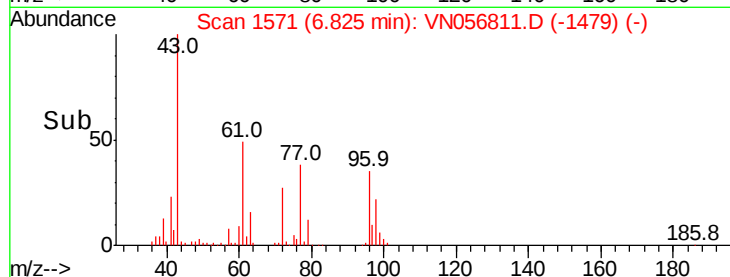
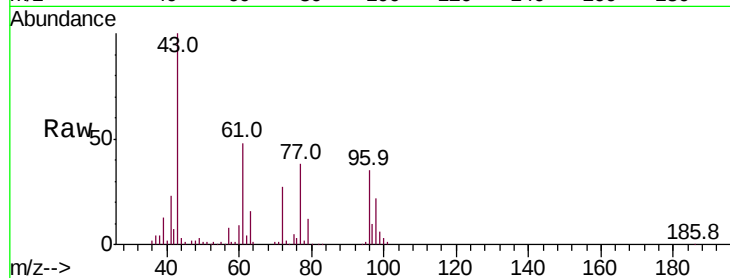
#27
 cis-1,2-Dichloroethene
 Concen: 47.742 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	180018		
61	141.5	0.0	281.4	
98	64.5	0.0	127.8	

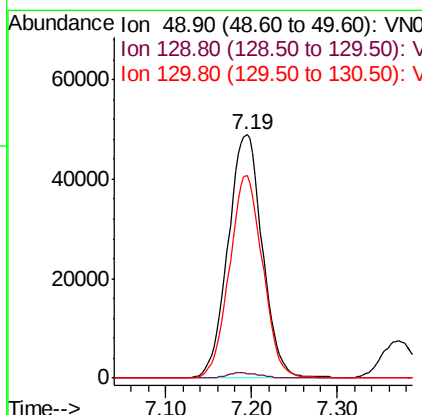
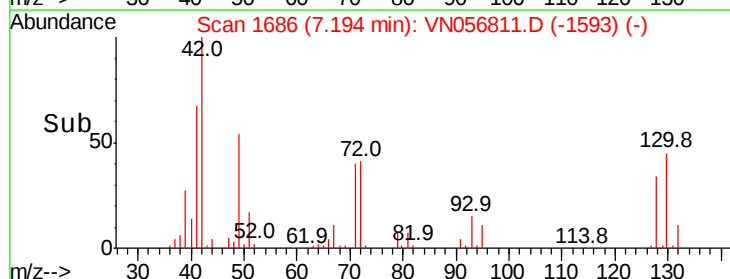
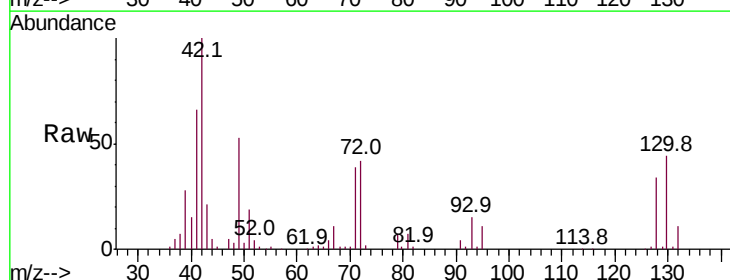
Manual Integrations
 APPROVED

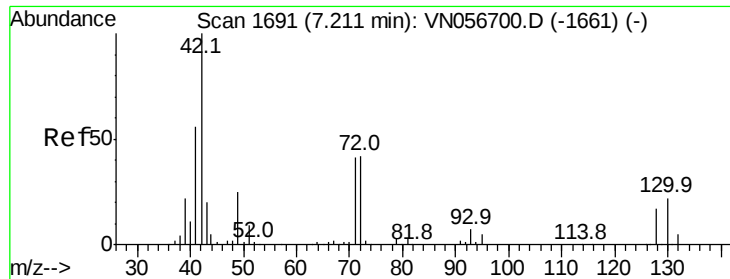
MMDadoda
 7/19/2019 11:31:42 PM



#28
 Bromochloromethane
 Concen: 47.140 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	135981		
129	2.0	0.0	4.0	
130	80.6	64.7	97.1	





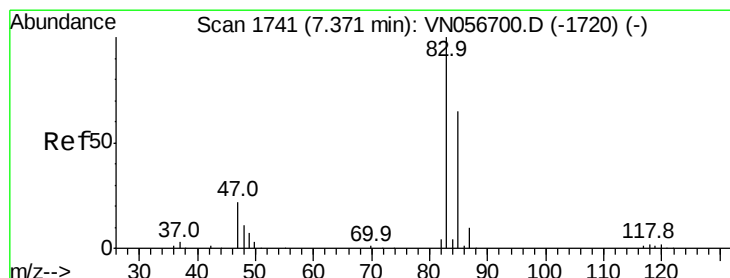
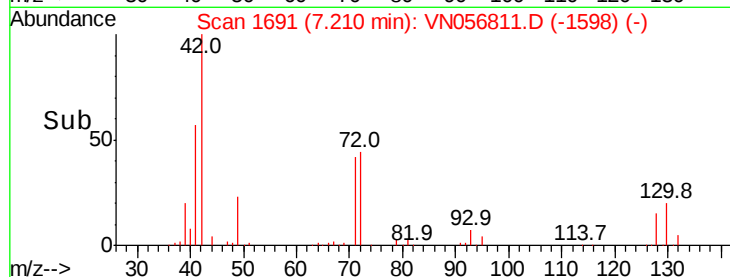
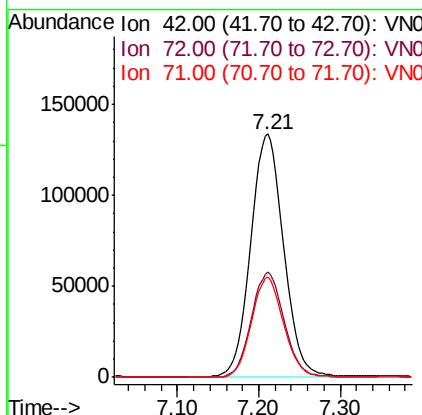
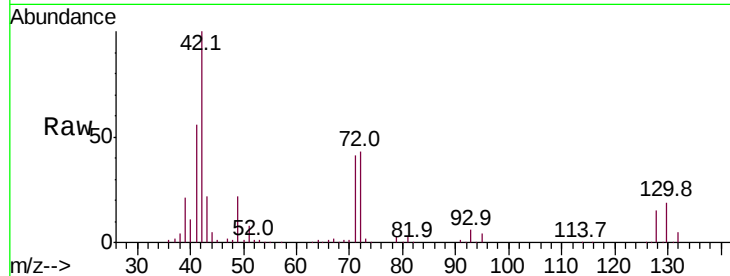
#29
Tetrahydrofuran
Concen: 232.971 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.8	33.5	50.3
71	40.2	31.8	47.8

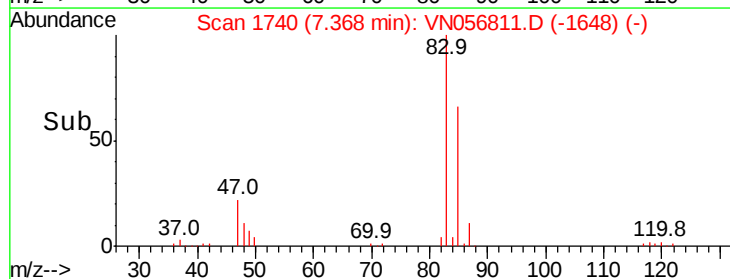
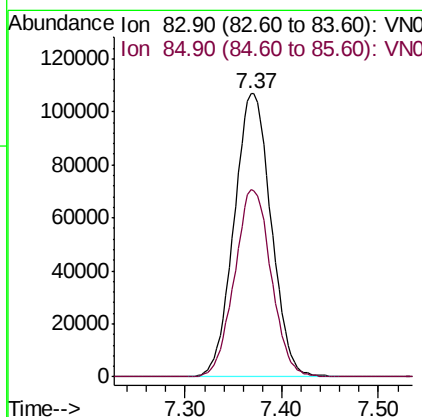
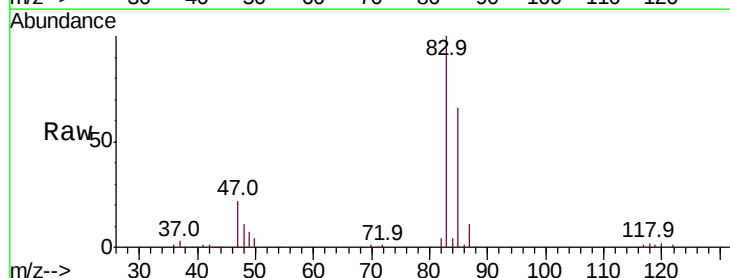
Manual Integrations
APPROVED

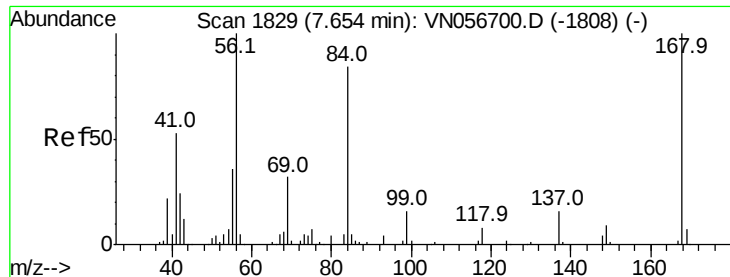
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#30
Chloroform
Concen: 46.308 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.9	77.9





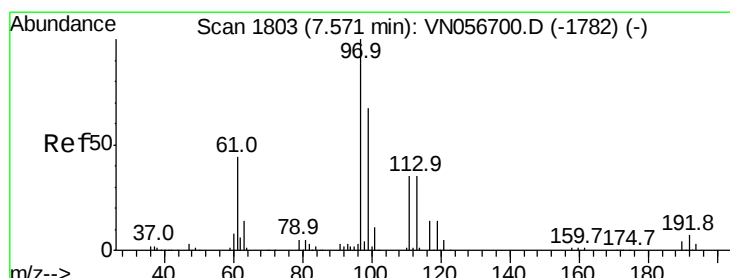
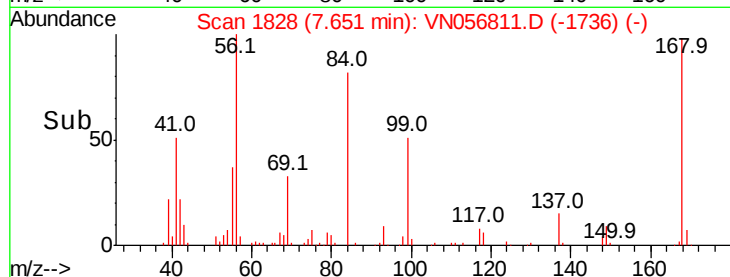
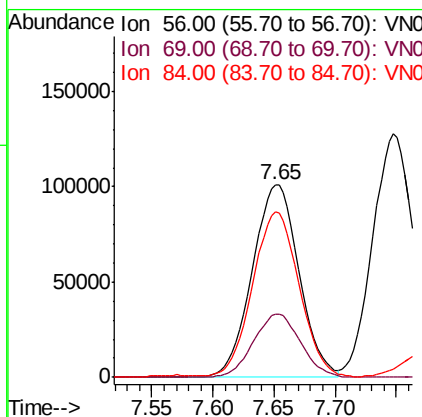
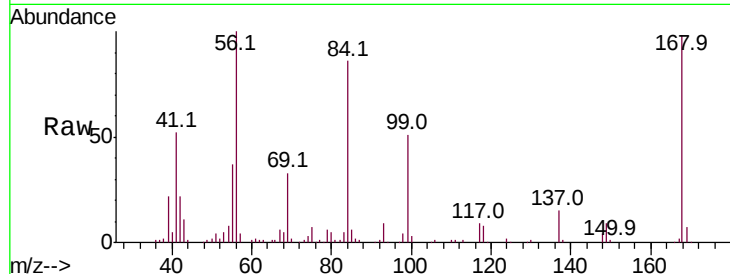
#31
Cyclohexane
Concen: 46.127 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.8	38.8
84	84.9	67.4	101.0

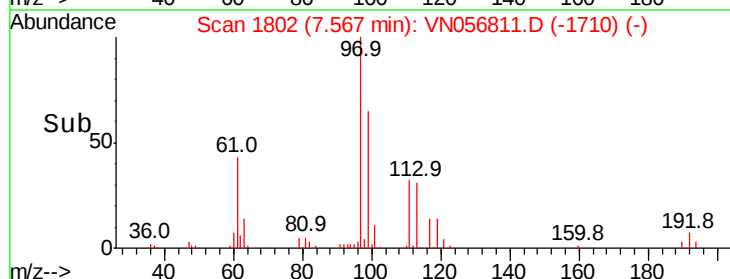
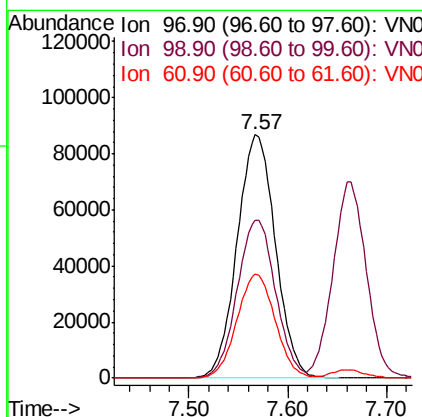
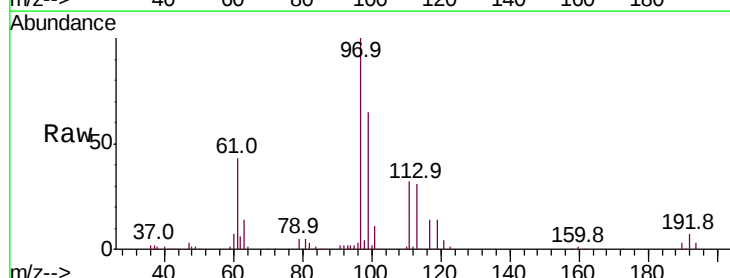
Manual Integrations
APPROVED

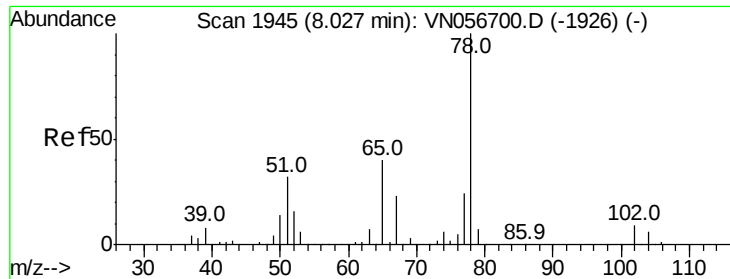
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#32
1,1,1-Trichloroethane
Concen: 48.155 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.1	52.0	78.0
61	42.7	34.3	51.5





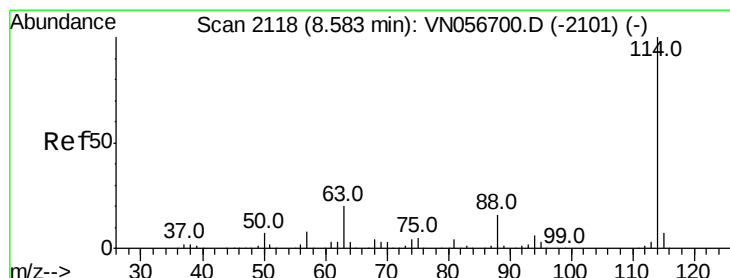
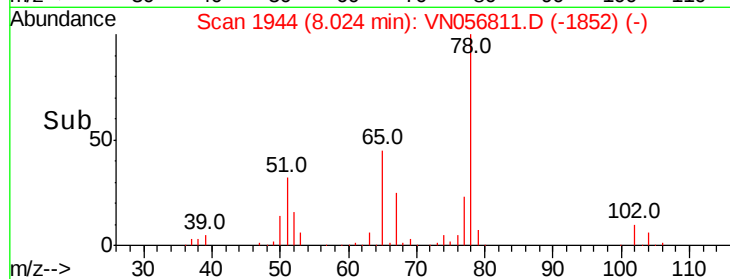
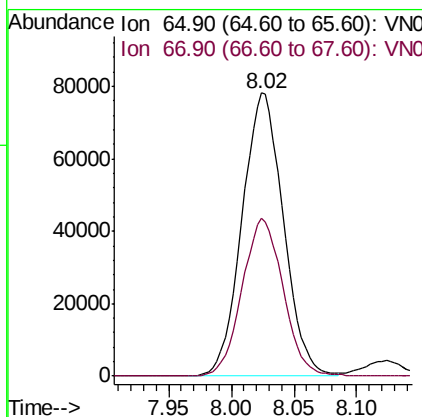
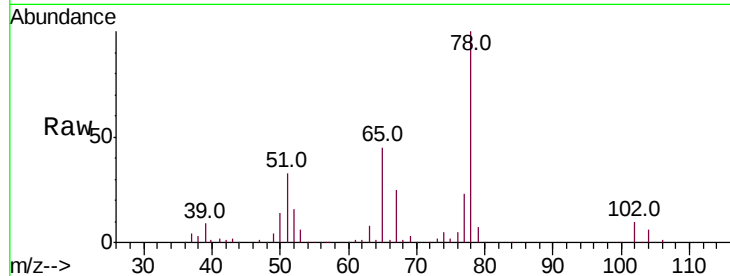
#33
 1,2-Dichloroethane-d4
 Concen: 49.152 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	109.0

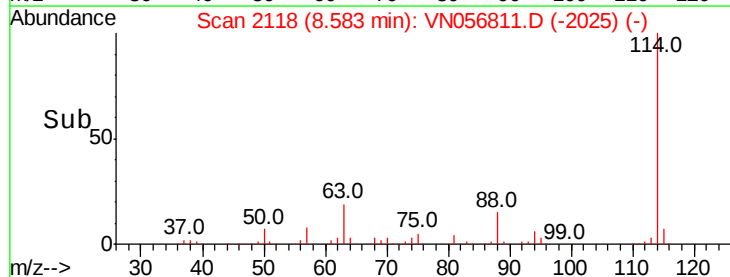
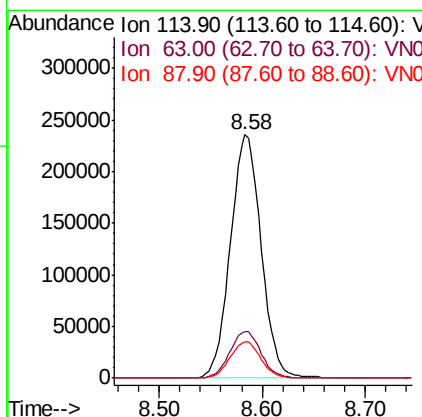
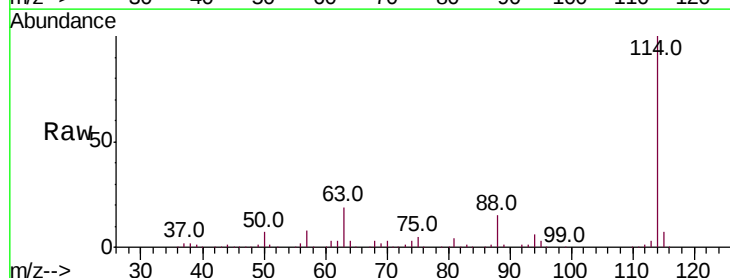
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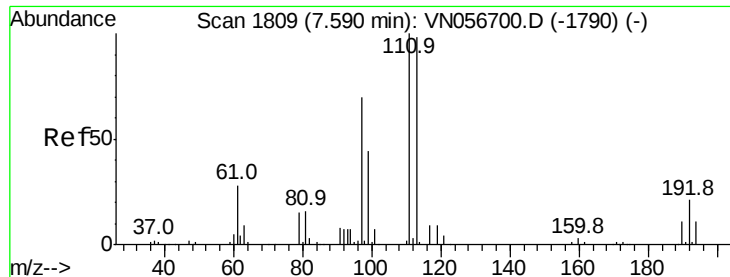
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.4
88	15.1	0.0	31.2





#35

Dibromofluoromethane

Concen: 51.678 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

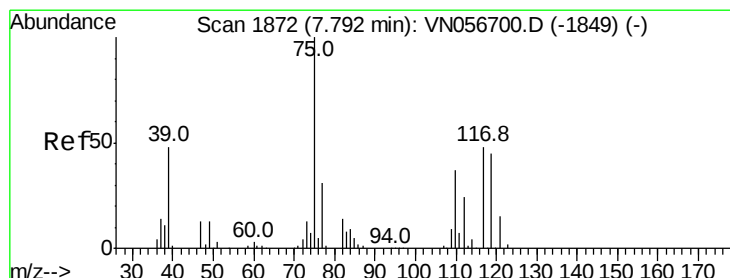
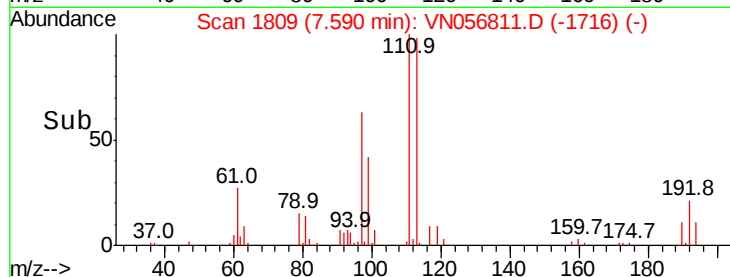
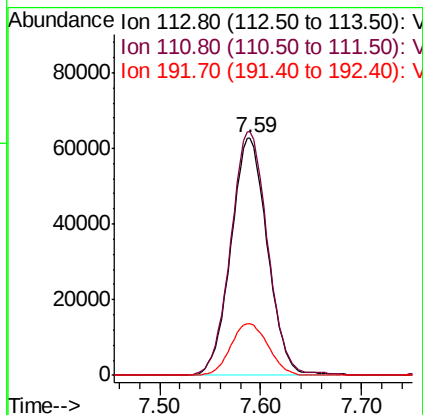
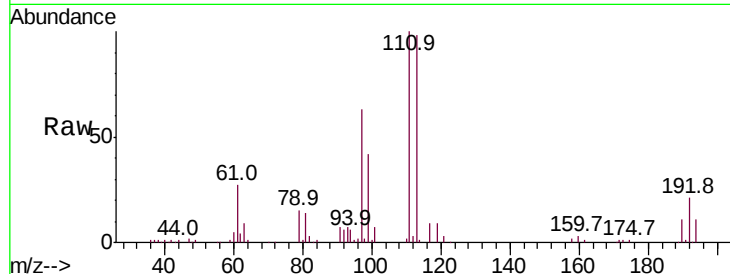
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	157366
Ion Ratio	Lower	Upper	
113	100		
111	103.4	81.8	122.6
192	22.4	17.5	26.3

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 47.849 ug/l

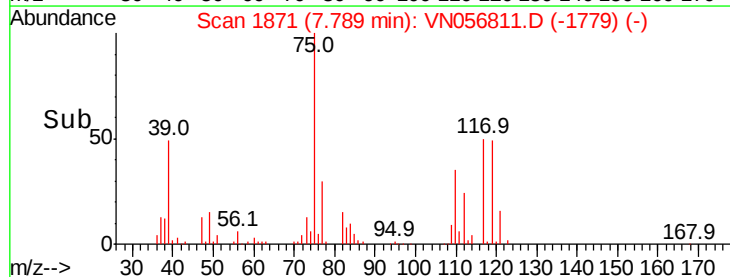
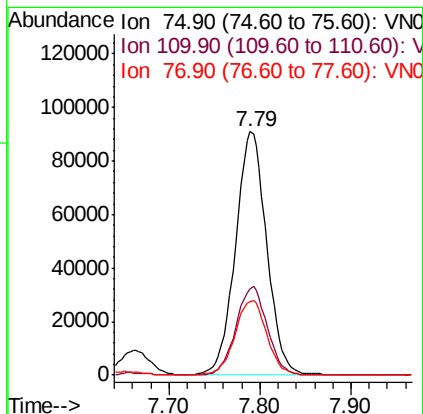
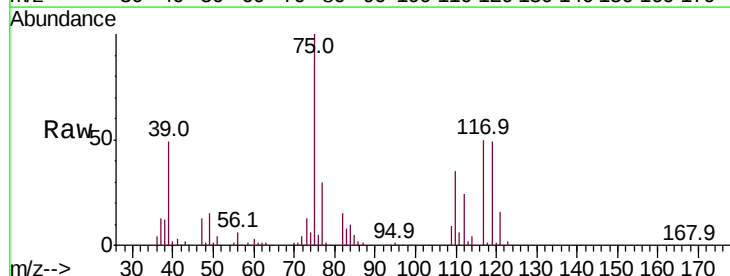
RT: 7.79 min Scan# 1871

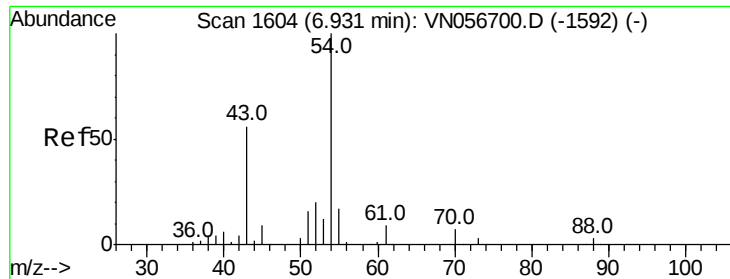
Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tgt Ion:	75	Resp:	216656
Ion Ratio	Lower	Upper	
75	100		
110	36.4	18.4	55.4
77	31.2	24.6	36.8





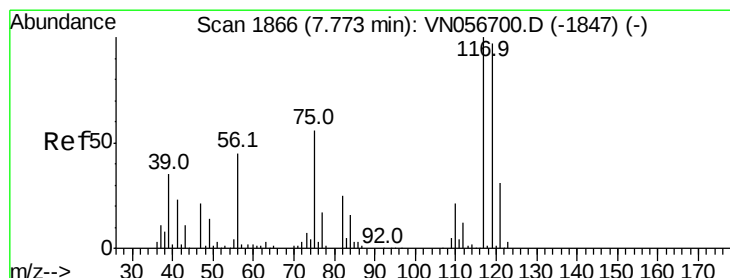
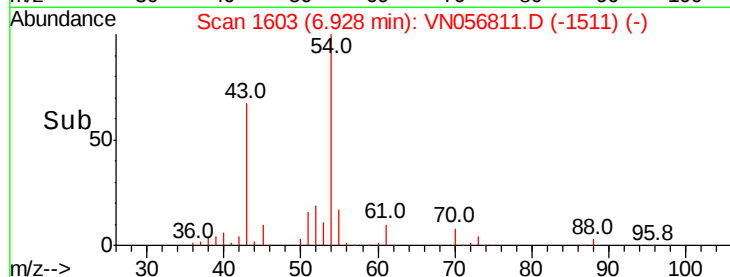
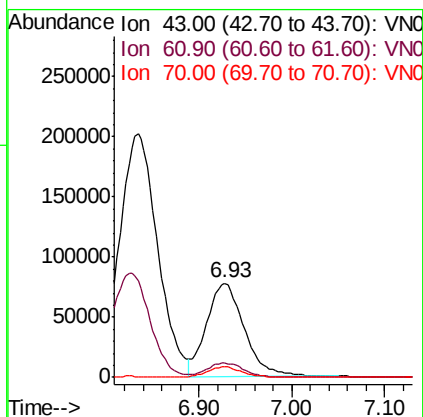
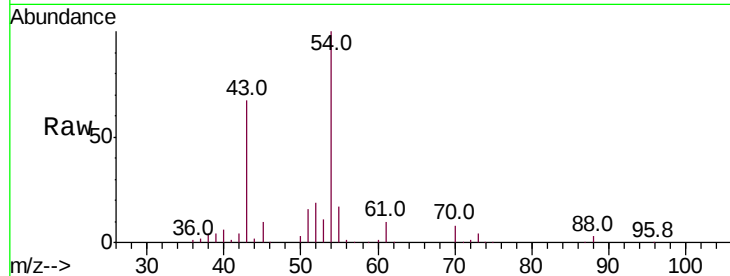
#37
Ethyl Acetate
Concen: 49.110 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.3	16.9
70	10.7	8.5	12.7

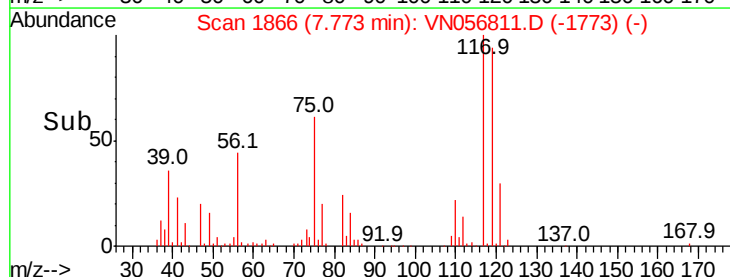
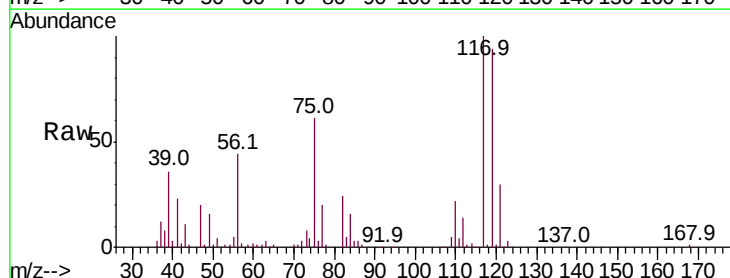
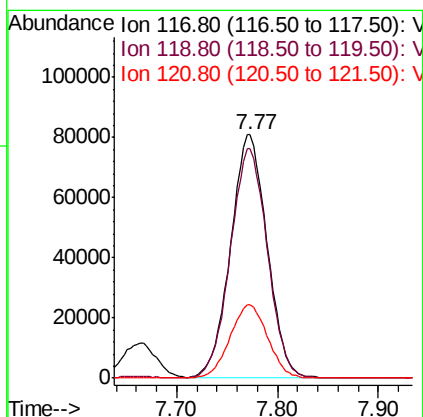
Manual Integrations
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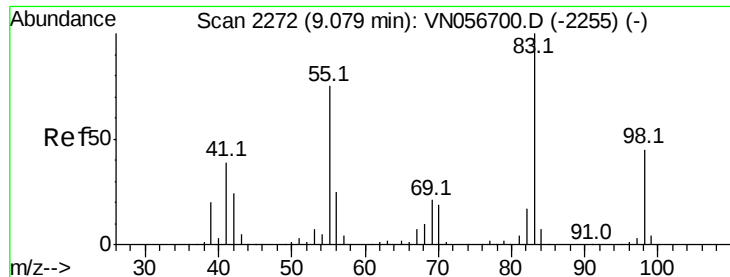
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#38
Carbon Tetrachloride
Concen: 48.082 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.5	77.5	116.3
121	30.2	24.7	37.1





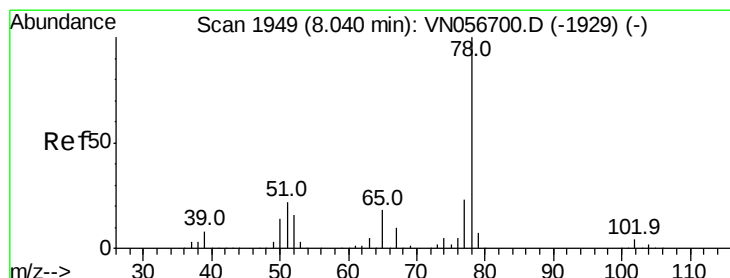
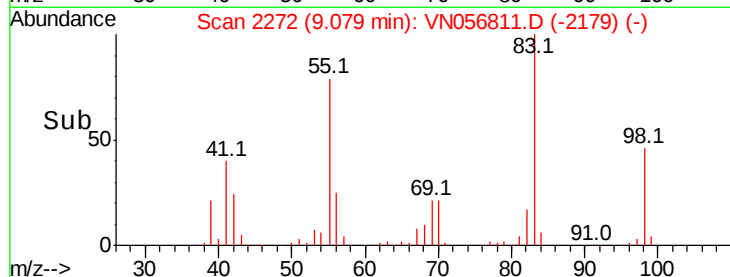
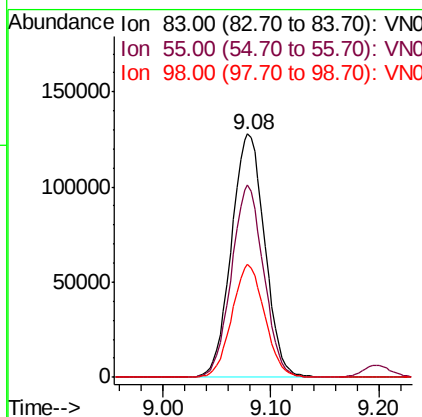
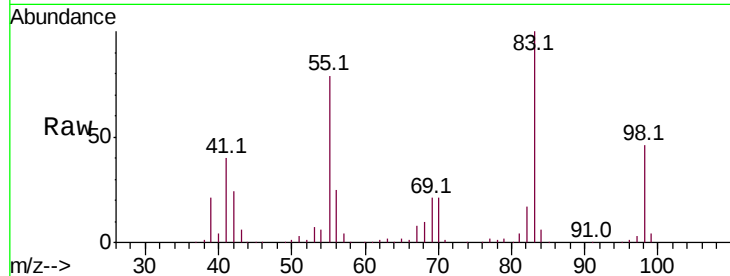
#39
Methvlcvclohexane
Concen: 49.034 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.3	60.4	90.6
98	46.2	35.8	53.8

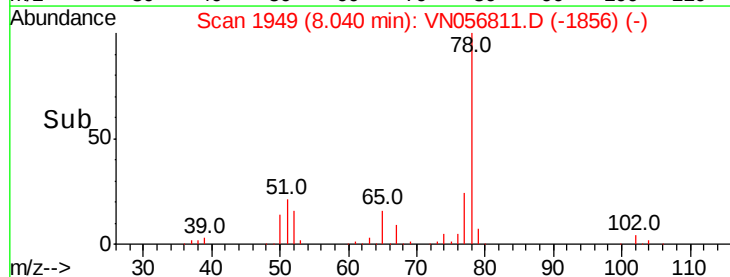
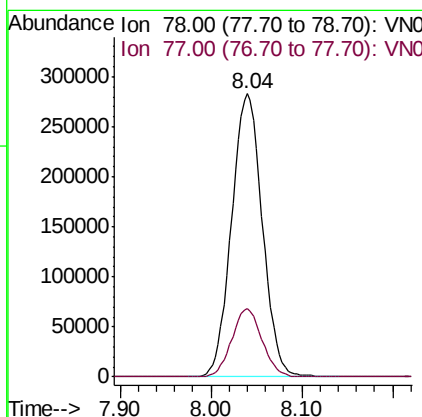
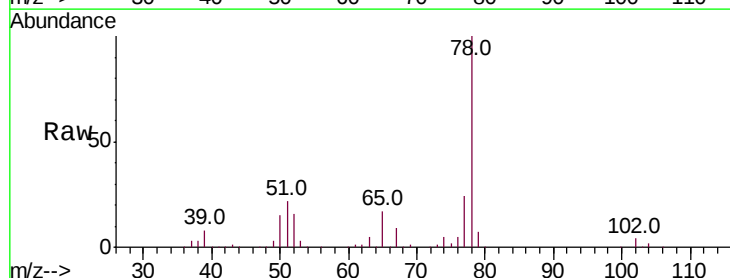
Manual Integrations
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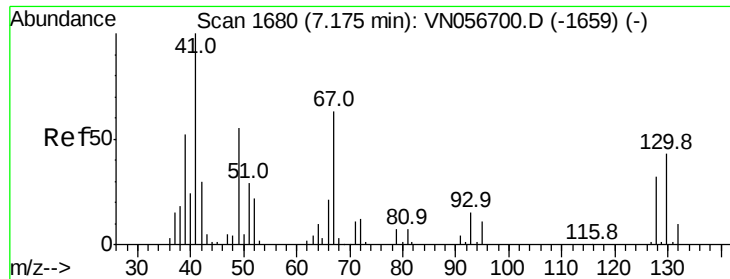
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#40
Benzene
Concen: 47.859 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.6	27.8





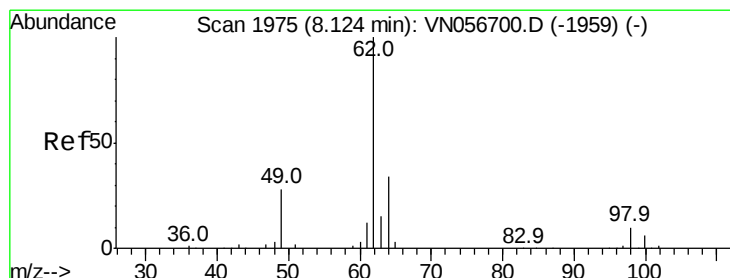
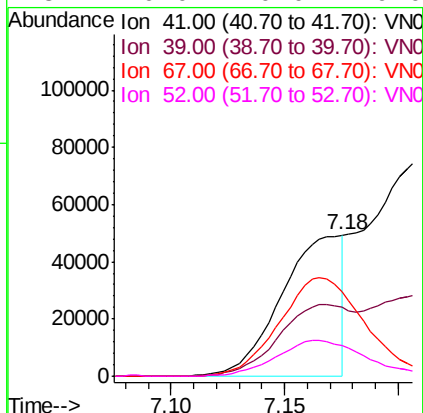
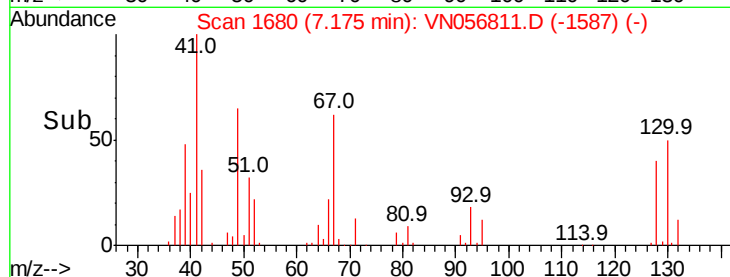
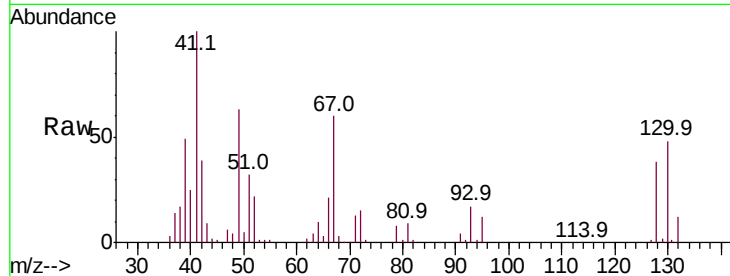
#41
Methacrylonitrile
Concen: 46.740 ug/l m
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	41	Resp	91624
Ion Ratio	Lower	Upper	
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

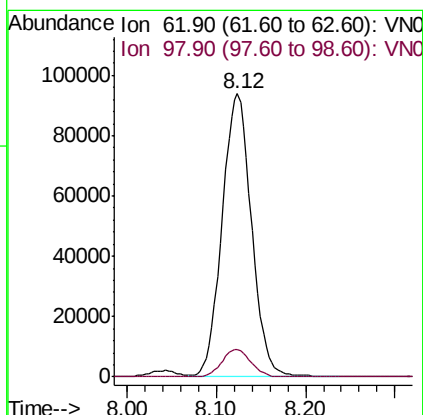
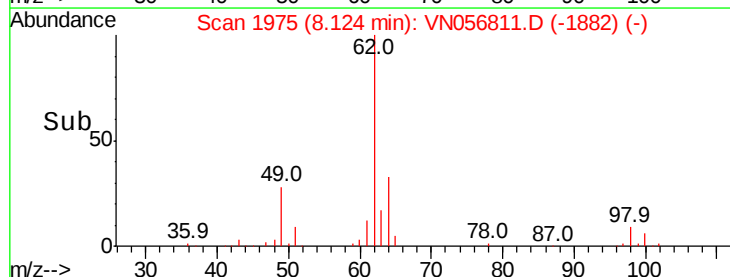
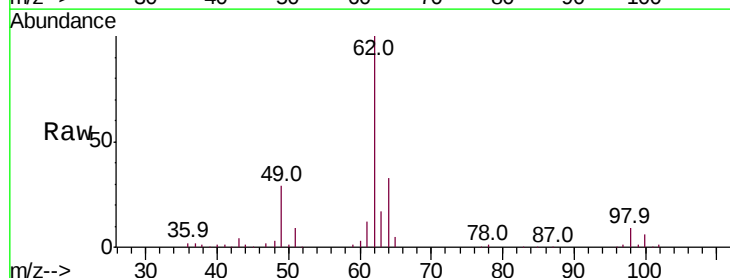
Manual Integrations
APPROVED

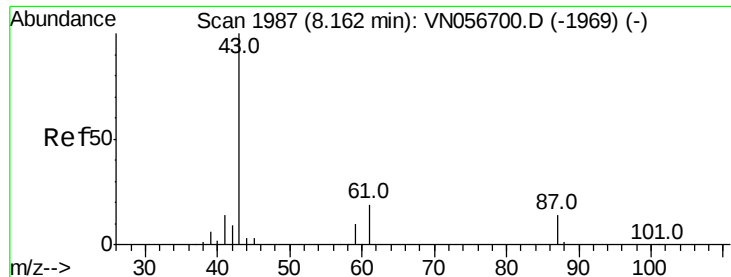
MMDadoda
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#42
1,2-Dichloroethane
Concen: 48.697 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	62	Resp	213524
Ion Ratio	Lower	Upper	
62	100		
98	9.7	0.0	19.8





#43

Isopropyl Acetate

Concen: 49.734 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

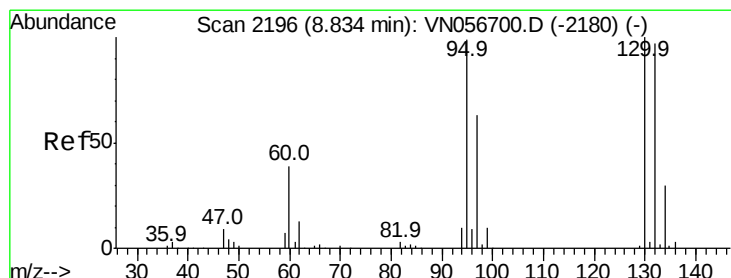
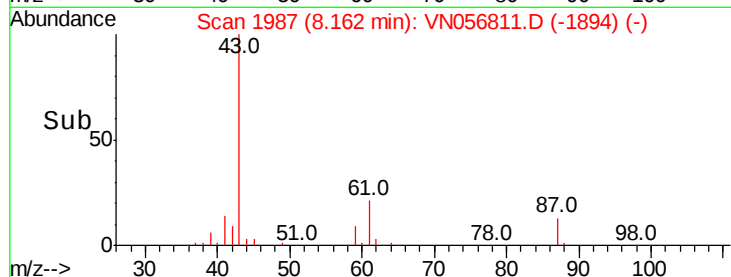
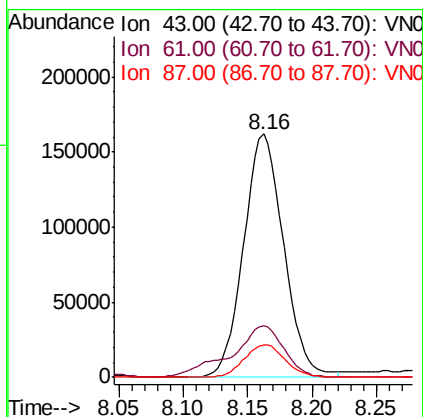
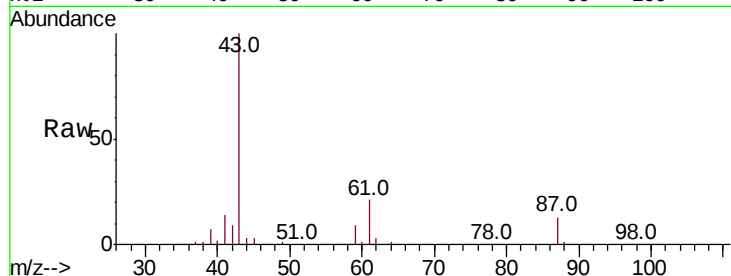
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	348923
Ion	Ratio	Lower	Upper
43	100		
61	27.9	22.3	33.5
87	13.8	11.1	16.7

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#44

Trichloroethene

Concen: 48.306 ug/l

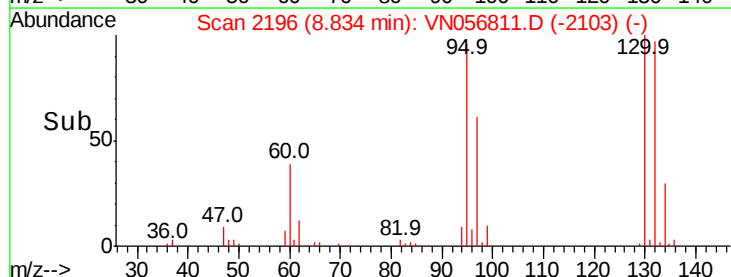
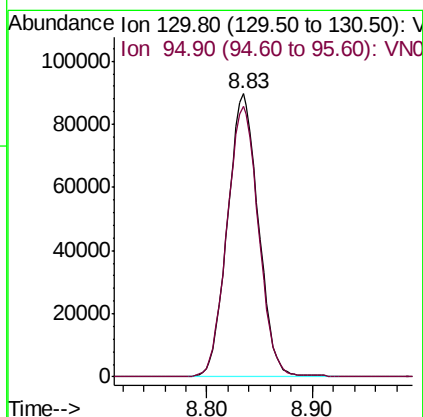
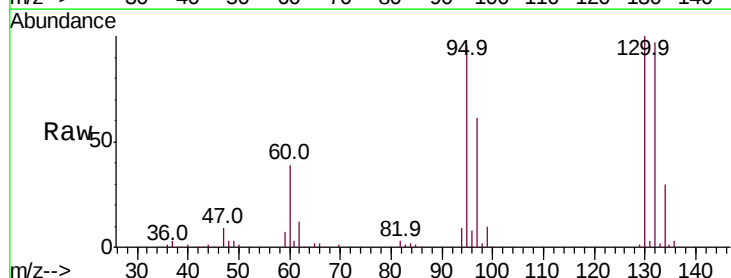
RT: 8.83 min Scan# 2196

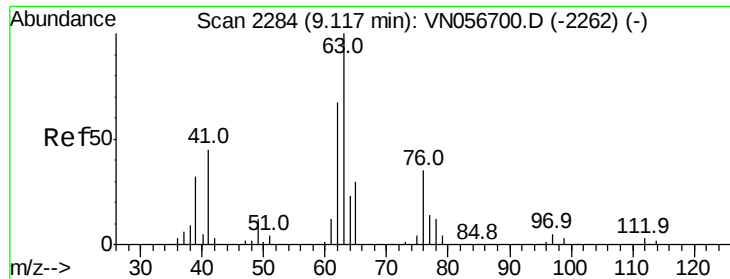
Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tgt Ion:	130	Resp:	181994
Ion	Ratio	Lower	Upper
130	100		
95	95.6	0.0	197.2





#45

1,2-Dichloropropane

Concen: 49.285 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 181690

Ion Ratio Lower Upper

63 100

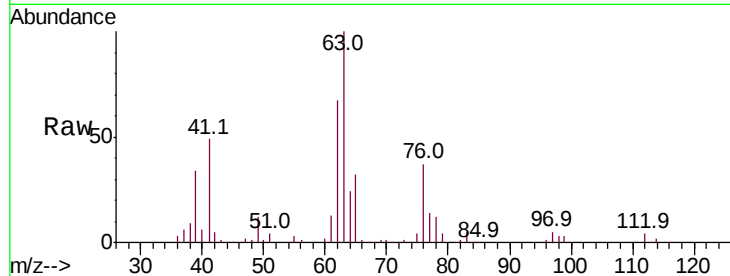
65 31.8 24.0 36.0

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.12

80000

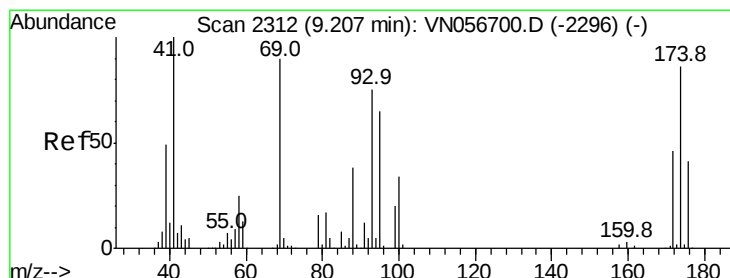
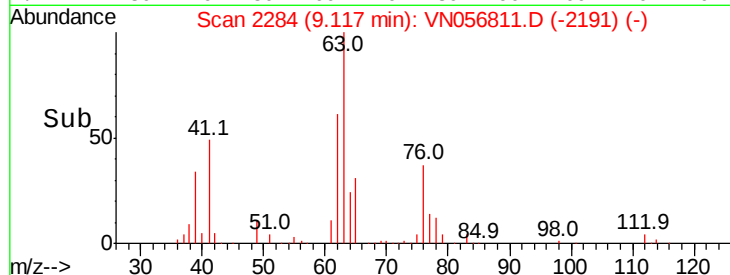
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 50.564 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

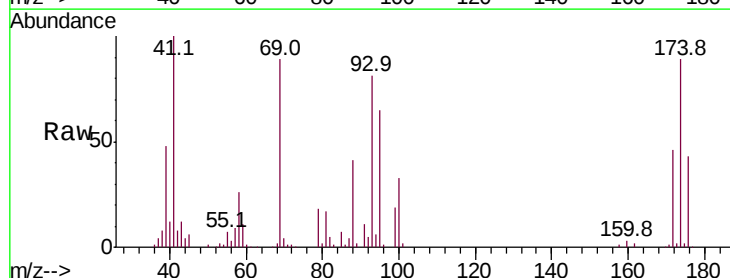
Tgt Ion: 93 Resp: 115515

Ion Ratio Lower Upper

93 100

95 81.4 67.4 101.0

174 111.4 90.3 135.5



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

80000

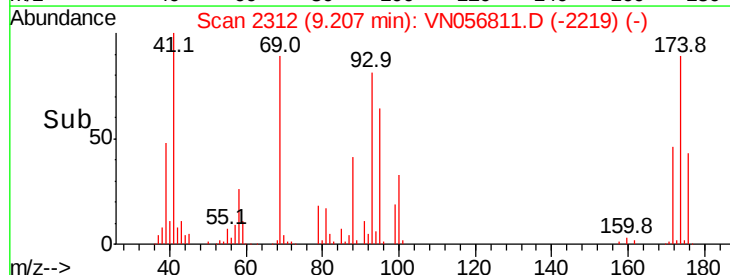
60000

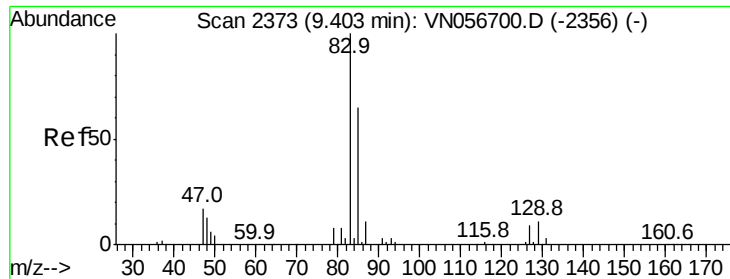
40000

20000

0

Time-->





#47

Bromodichloromethane

Concen: 49.938 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

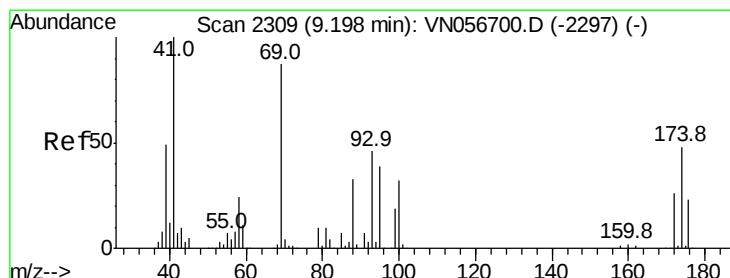
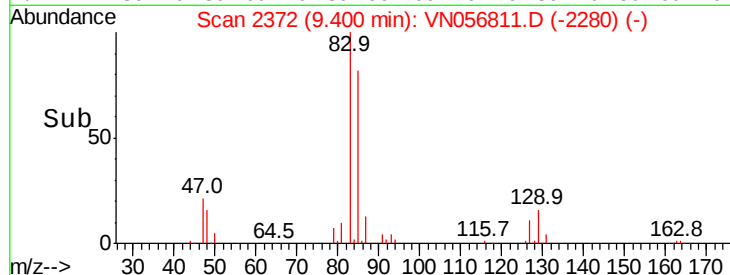
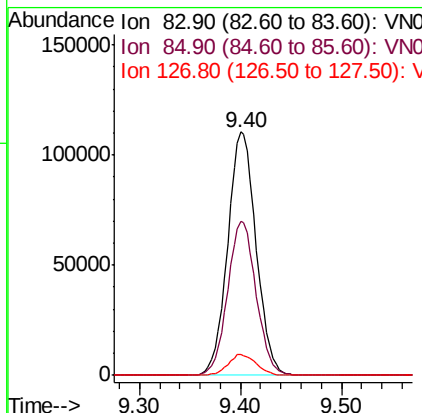
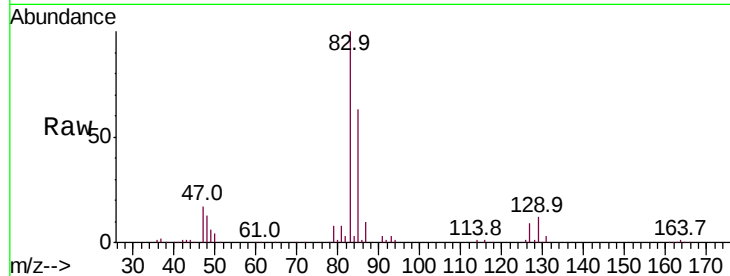
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	216792
Ion Ratio	Lower	Upper	
83	100		
85	63.2	52.3	78.5
127	8.6	7.6	11.4

Manual Integrations
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#48

Methyl methacrylate

Concen: 51.795 ug/l

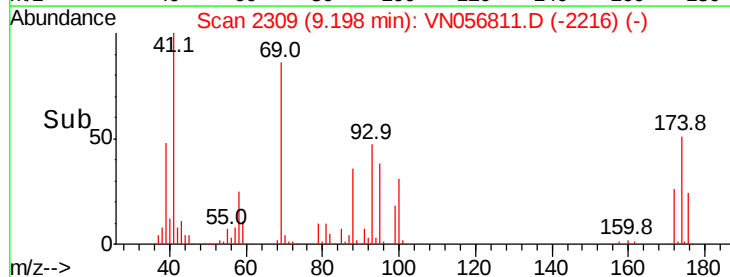
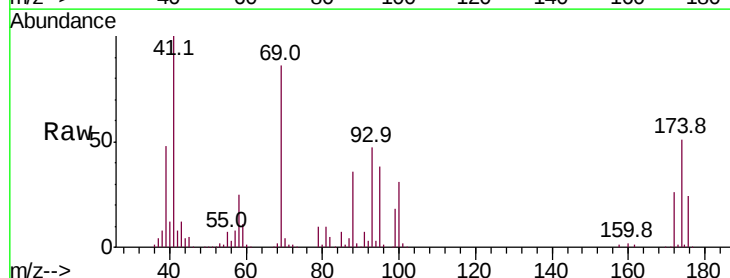
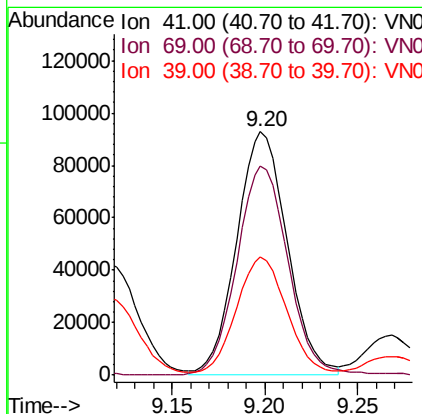
RT: 9.20 min Scan# 2309

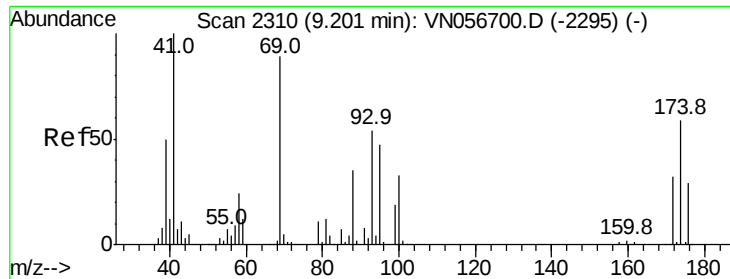
Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tgt Ion:	41	Resp:	175735
Ion Ratio	Lower	Upper	
41	100		
69	87.6	71.4	107.0
39	48.6	41.2	61.8





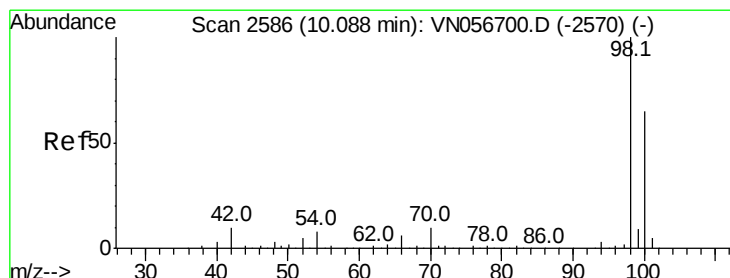
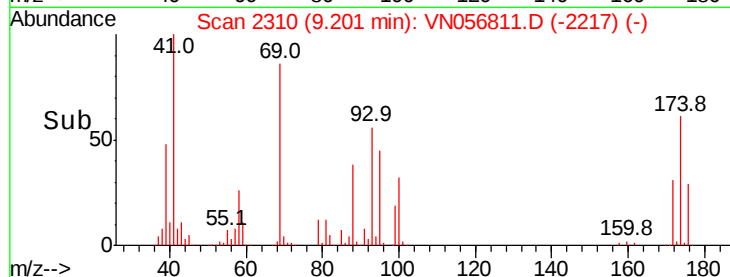
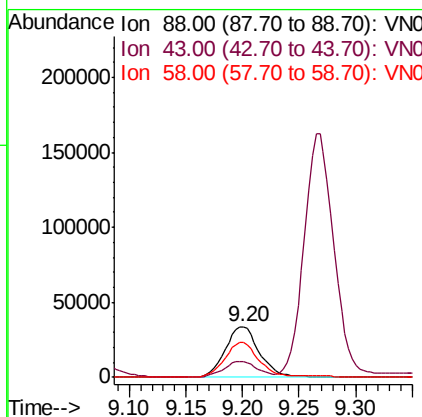
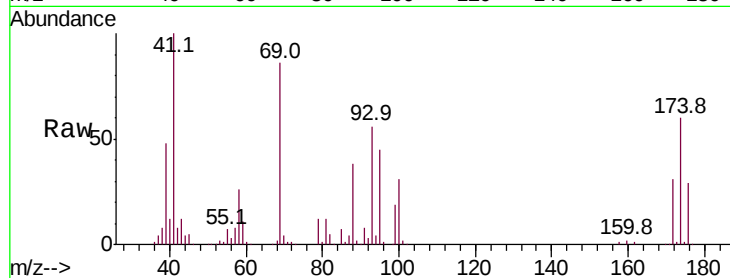
#49
1,4-Dioxane
Concen: 1035.767 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.1	23.7	35.5
58	68.0	55.6	83.4

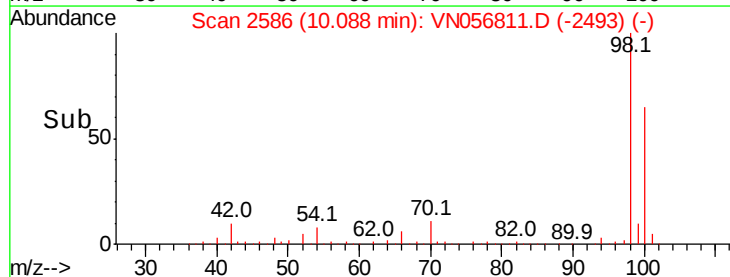
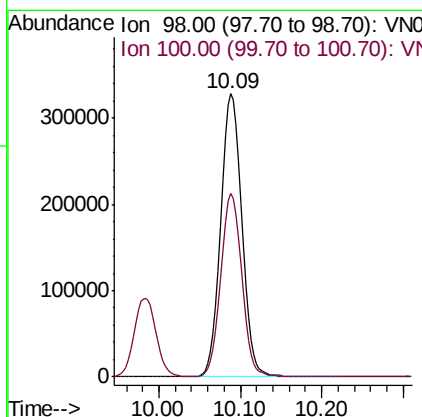
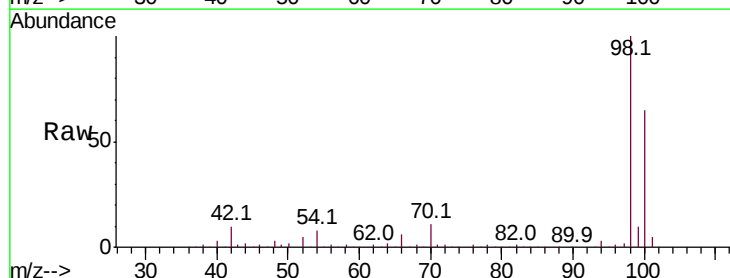
Manual Integrations
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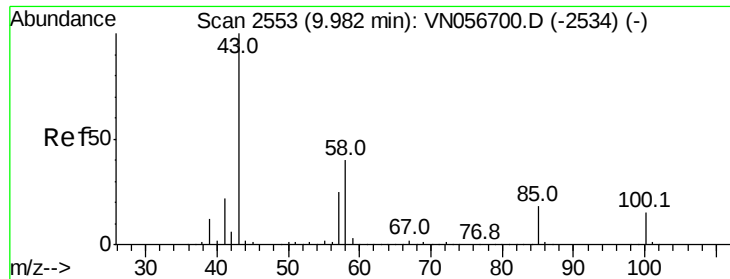
MMDadoda
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#50
Toluene-d8
Concen: 51.732 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.0	78.0





#51

4-Methyl-2-Pentanone

Concen: 244.637 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1111629

Ion Ratio Lower Upper

43 100

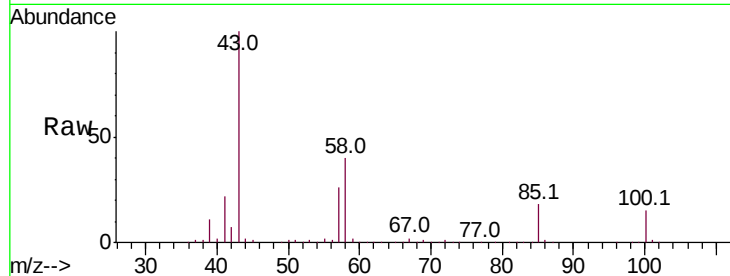
58 40.4 32.0 48.0

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN056811.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN056811.D (-2534) (-)

9.98

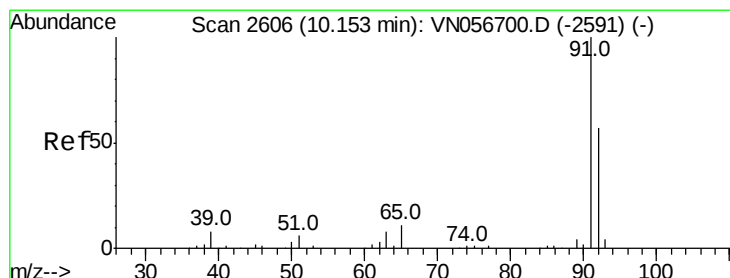
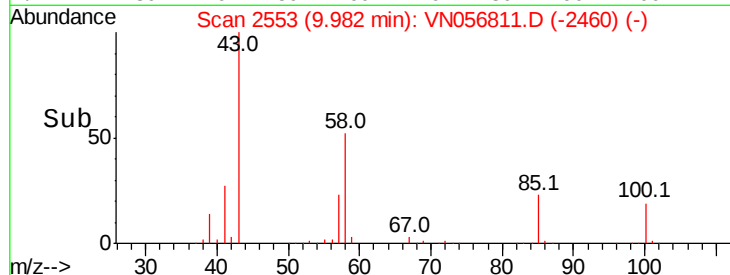
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 50.427 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN056811.D

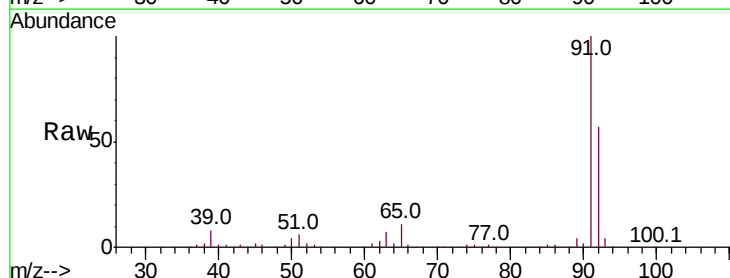
Acq: 18 Jul 2019 14:23

Tgt Ion: 92 Resp: 415491

Ion Ratio Lower Upper

92 100

91 173.0 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN056811.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN056811.D (-2591) (-)

10.15

400000

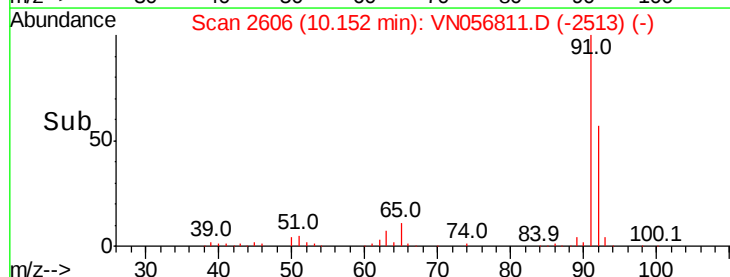
300000

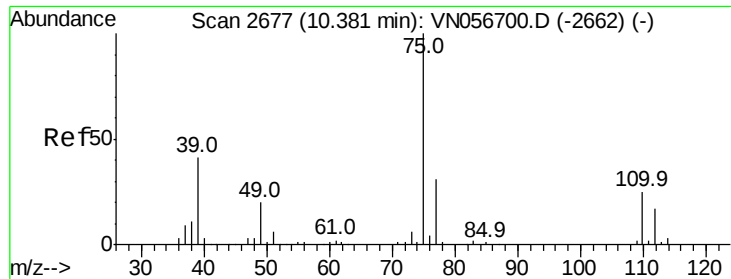
200000

100000

0

Time-->





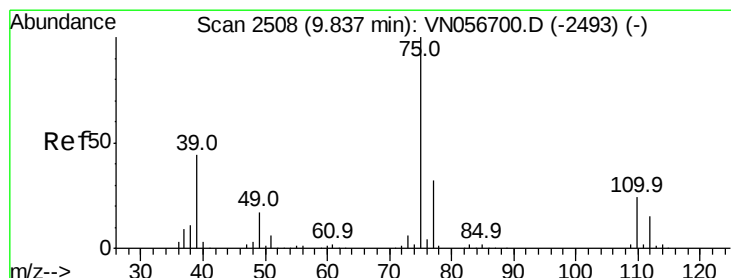
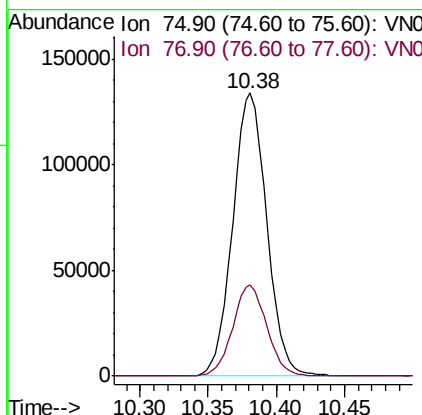
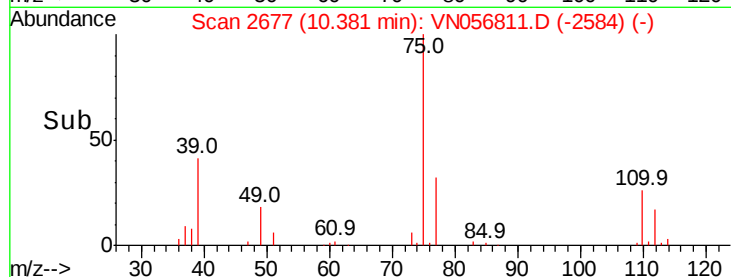
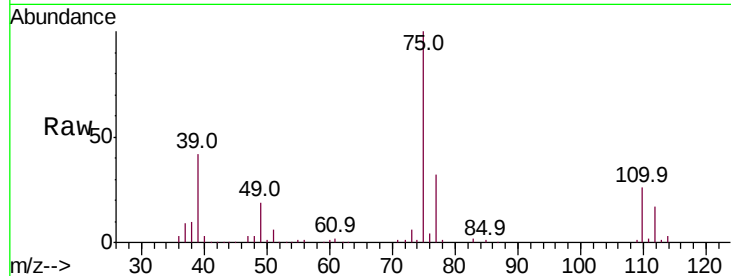
#53
t-1,3-Dichloropropene
Concen: 51.273 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 75 Resp: 232228
Ion Ratio Lower Upper
75 100
77 32.0 25.0 37.6

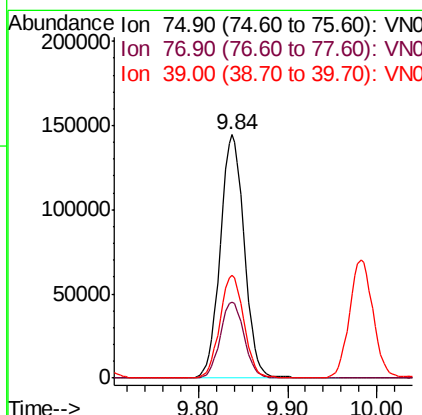
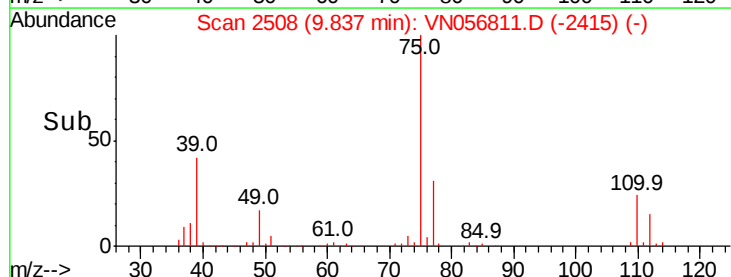
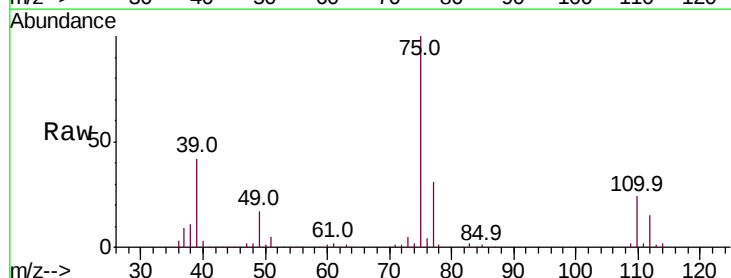
Manual Integrations
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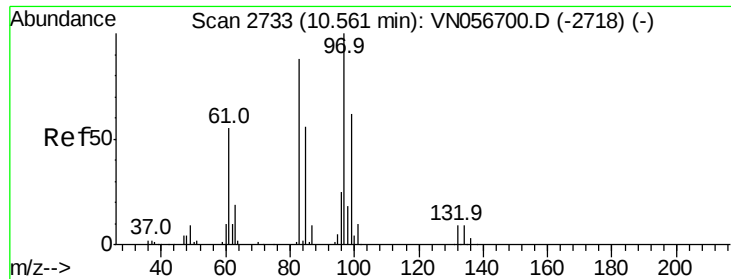
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#54
cis-1,3-Dichloropropene
Concen: 51.096 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion: 75 Resp: 268556
Ion Ratio Lower Upper
75 100
77 31.4 26.0 39.0
39 42.5 35.1 52.7





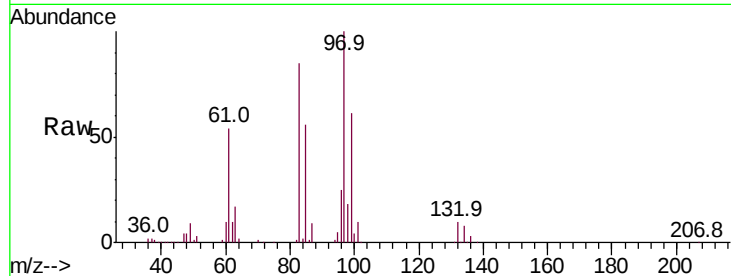
#55
 1,1,2-Trichloroethane
 Concen: 48.942 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	97	Resp	169136
Ion	Ratio	Lower	Upper
97	100		
83	85.3	70.3	105.5
85	56.2	44.8	67.2
99	60.8	49.6	74.4

Manual Integrations
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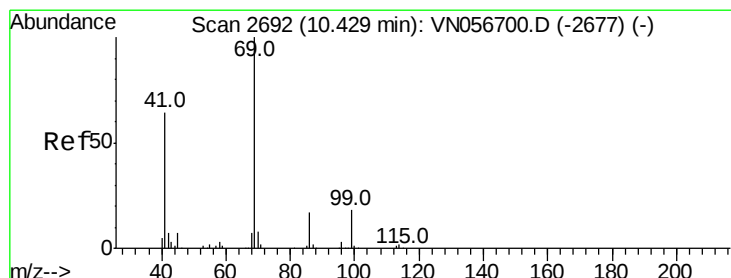
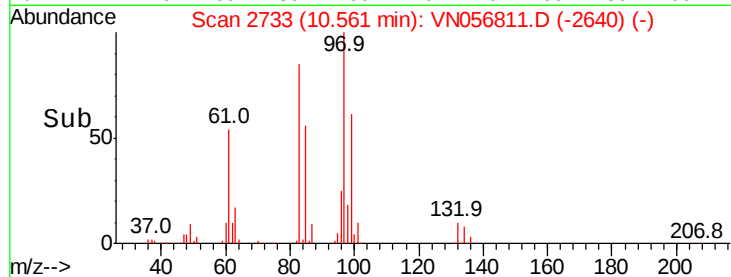
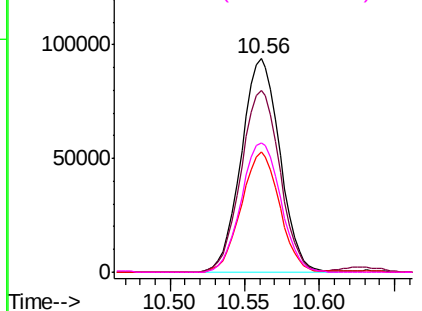
Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

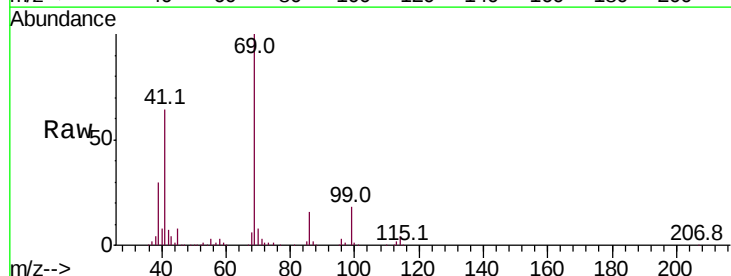
Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO



#56
 Ethyl methacrylate
 Concen: 51.931 ug/l
 RT: 10.43 min Scan# 2691
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Tgt Ion	69	Resp	258227
Ion	Ratio	Lower	Upper
69	100		
41	63.6	51.0	76.4
39	30.2	24.6	36.8

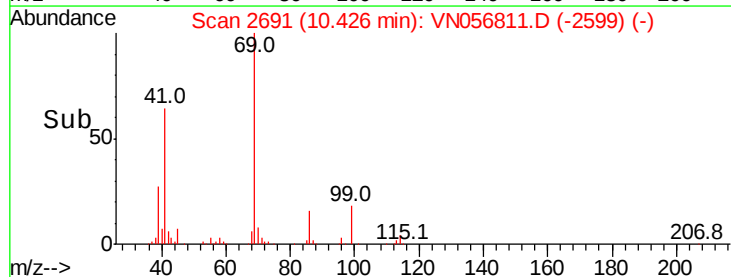
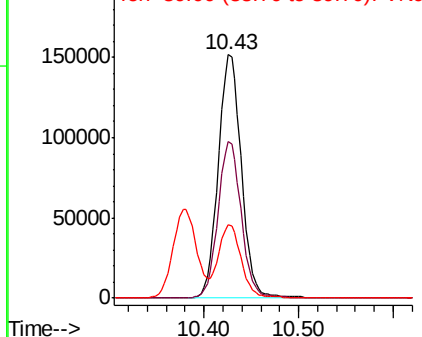


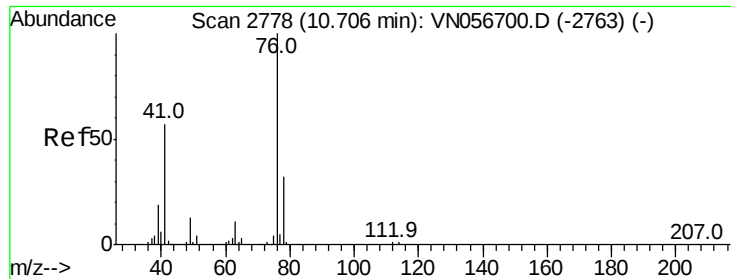
Abundance

Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 49.866 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 281457

Ion Ratio Lower Upper

76 100

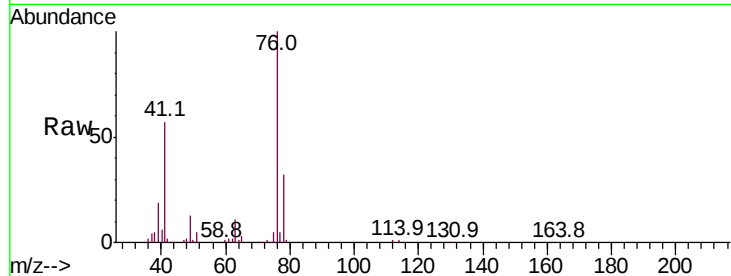
78 32.1 26.0 39.0

Manual Integrations

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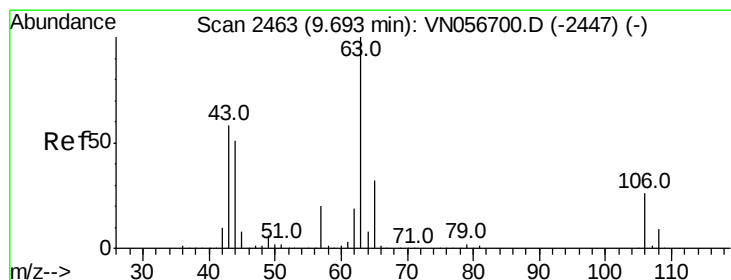
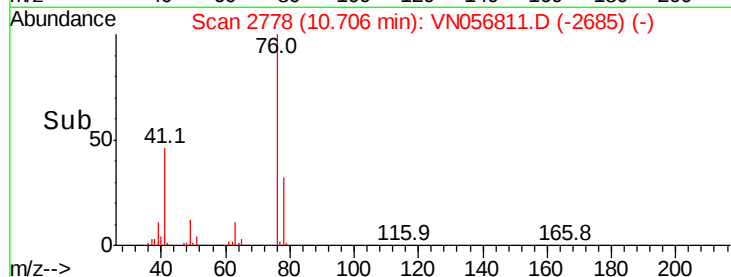
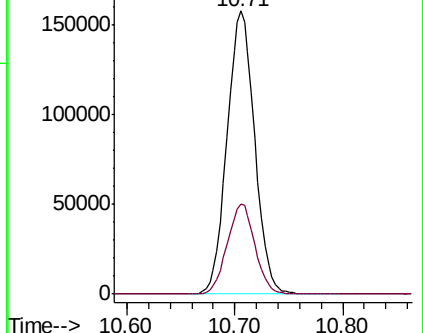
MMDadoda

7/19/2019 11:31:42 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 248.947 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN056811.D

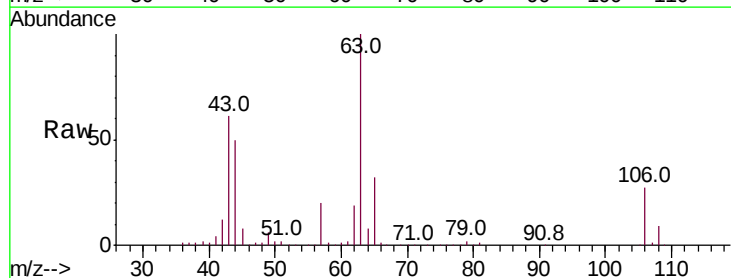
Acq: 18 Jul 2019 14:23

Tgt Ion: 63 Resp: 595267

Ion Ratio Lower Upper

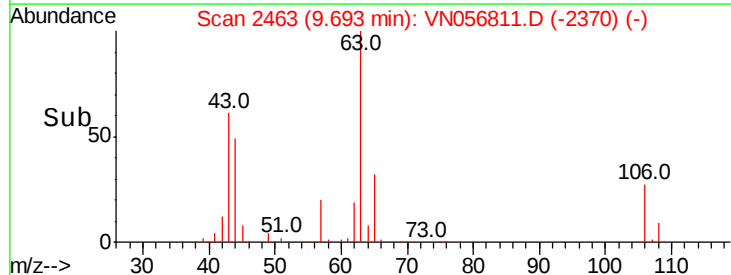
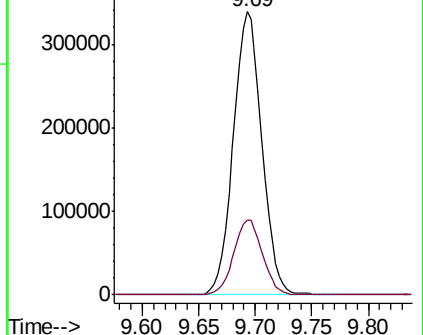
63 100

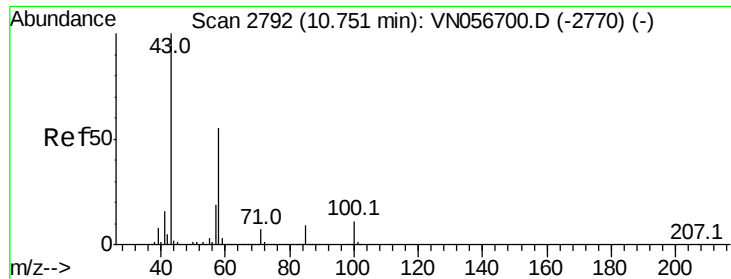
106 26.6 21.2 31.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





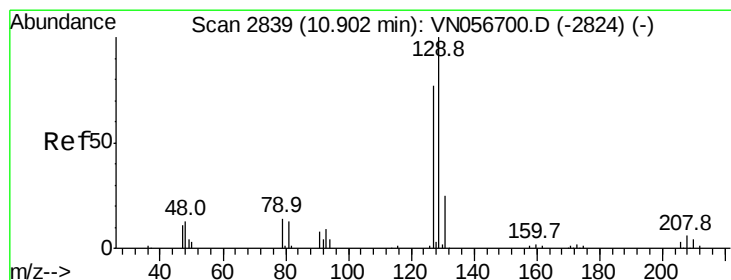
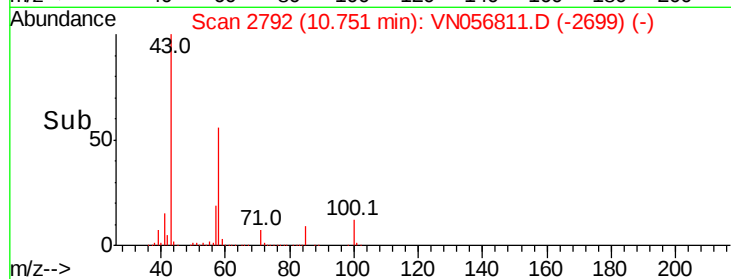
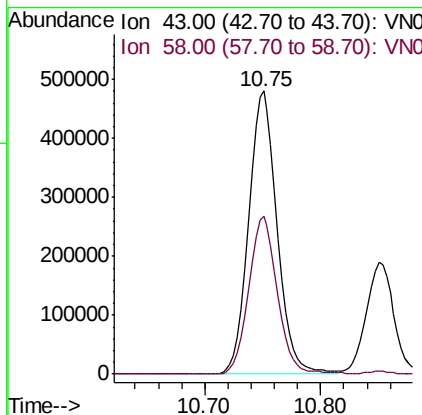
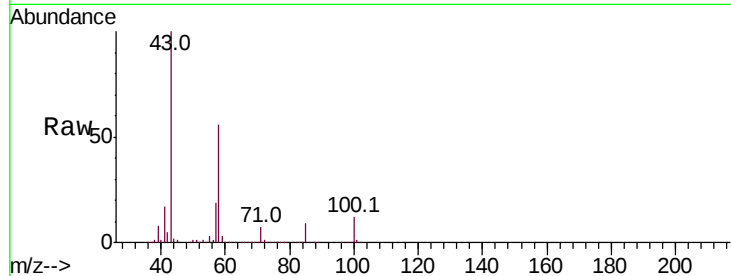
#59
2-Hexanone
Concen: 252.185 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 822244
Ion Ratio Lower Upper
43 100
58 56.2 27.9 83.6

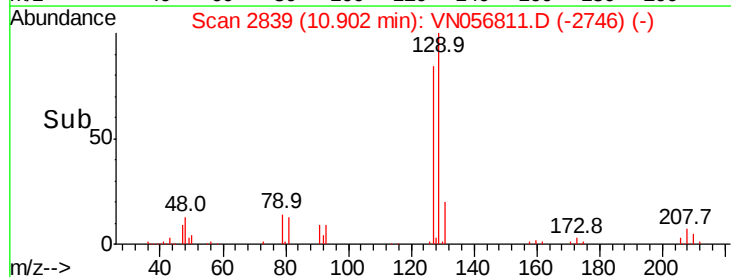
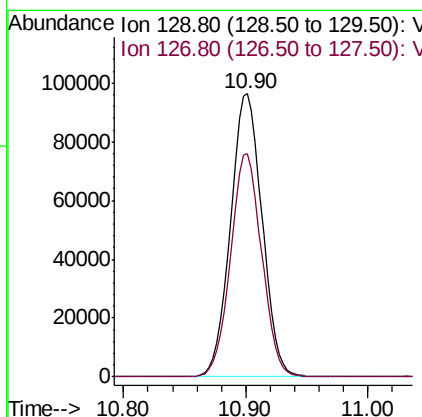
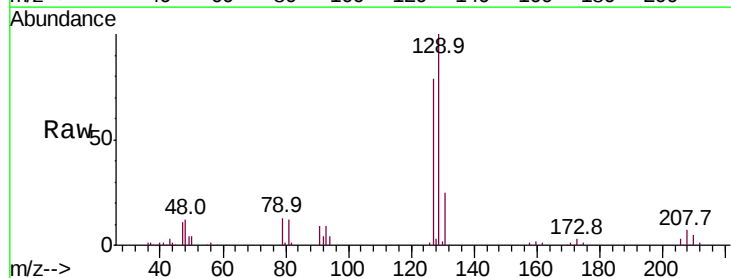
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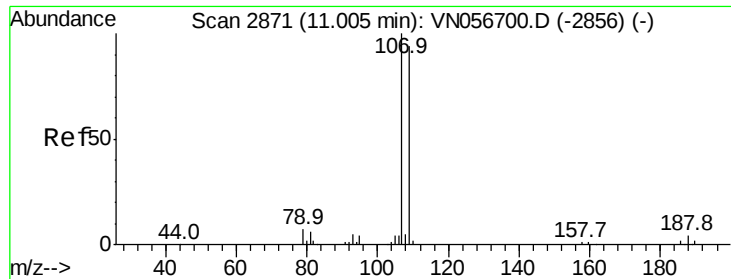
MMDadoda
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#60
Dibromochloromethane
Concen: 51.054 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion: 129 Resp: 173520
Ion Ratio Lower Upper
129 100
127 77.8 38.2 114.6





#61

1,2-Dibromoethane

Concen: 49.996 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC050

Tot Ion: 107 Resp: 171708

Ion Ratio Lower Upper

107 100

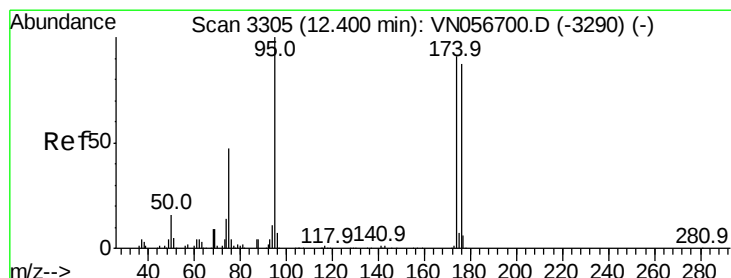
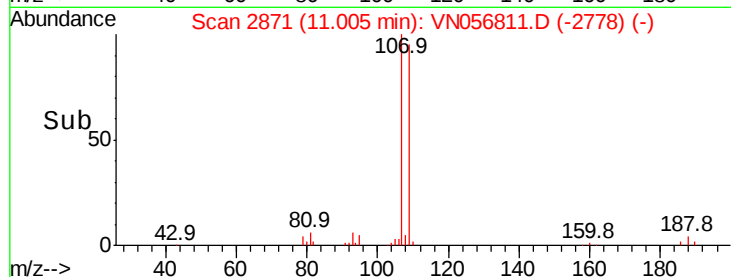
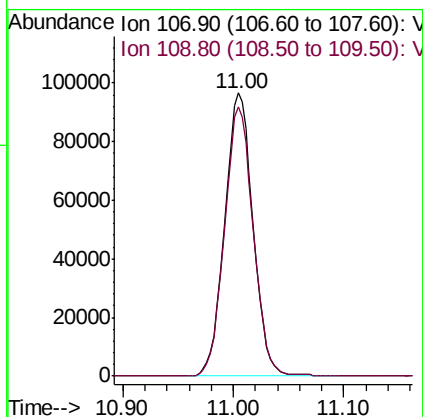
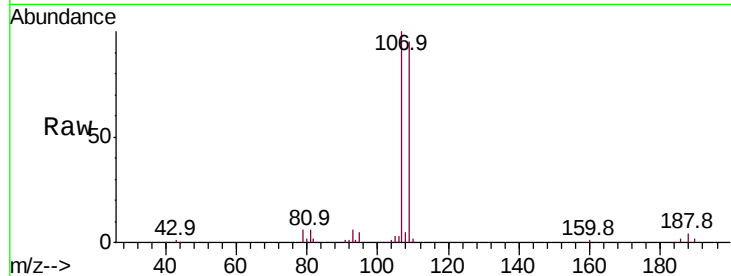
109 96.2 76.2 114.4

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#62

4-Bromofluorobenzene

Concen: 52.920 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

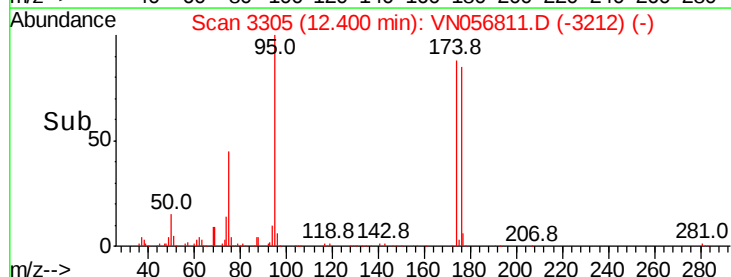
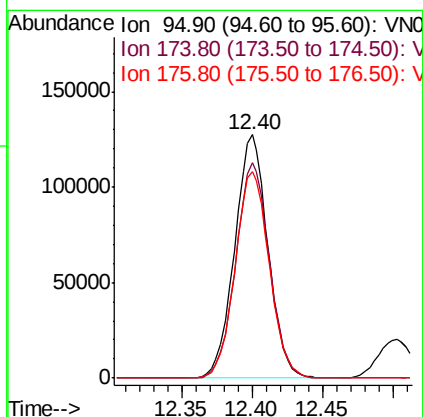
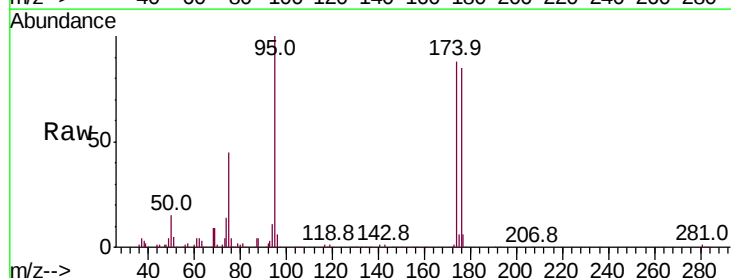
Tgt Ion: 95 Resp: 209889

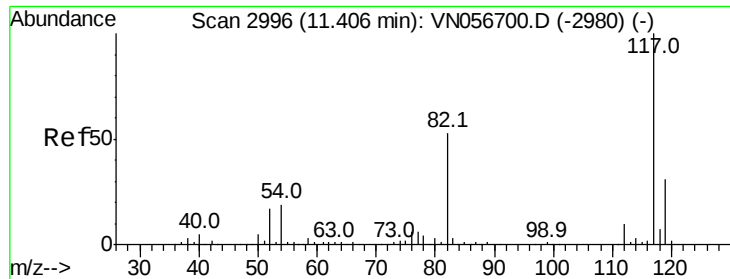
Ion Ratio Lower Upper

95 100

174 89.6 0.0 180.0

176 87.3 0.0 173.2





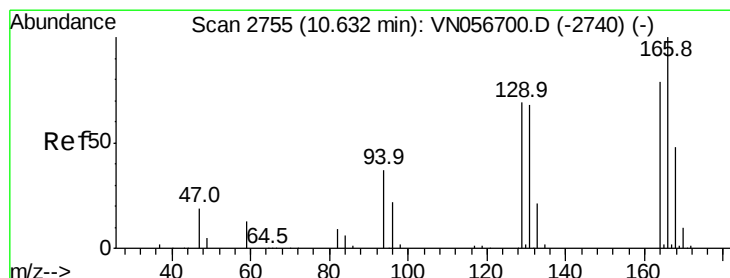
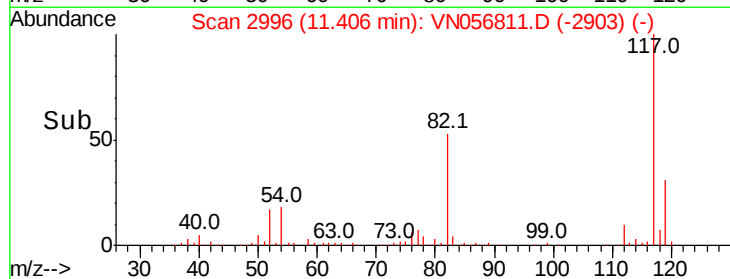
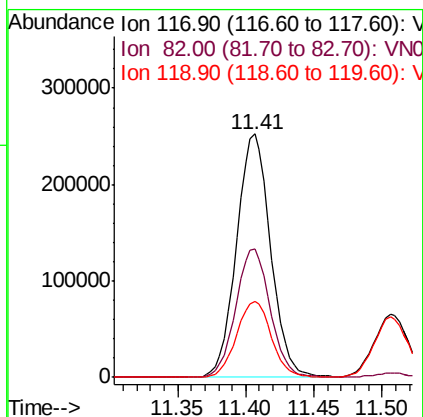
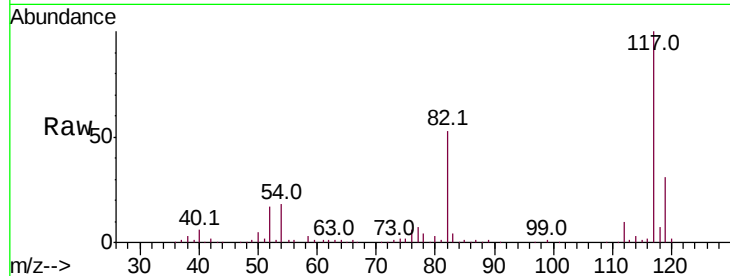
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	42.2	63.2
119	31.2	25.2	37.8

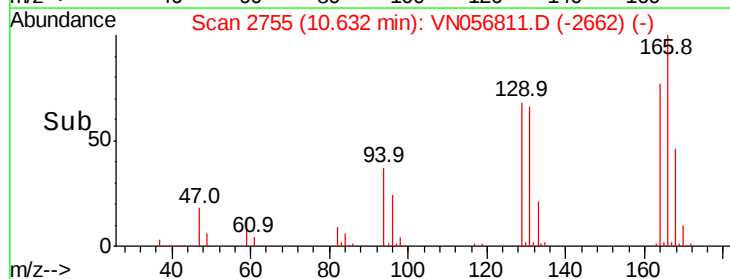
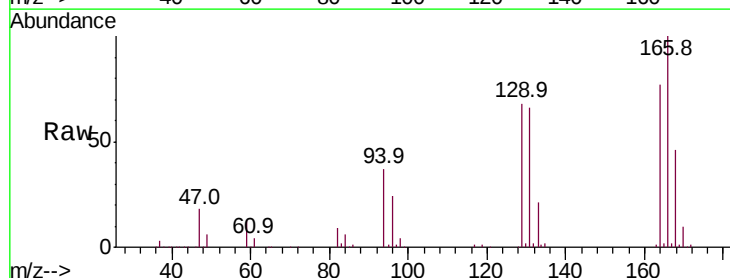
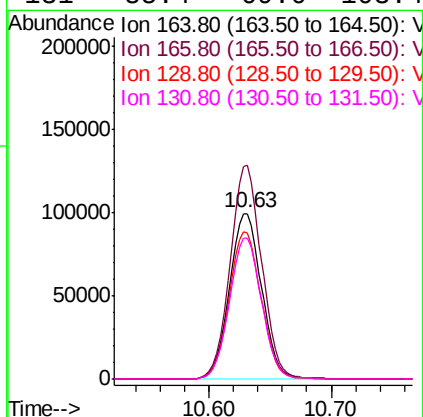
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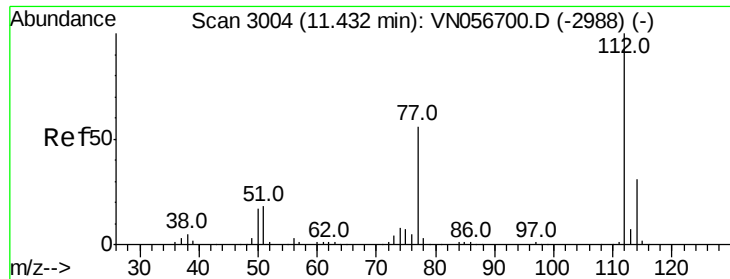
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#64
Tetrachloroethene
Concen: 48.263 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.1	101.4	152.2
129	88.4	69.6	104.4
131	85.4	69.0	103.4





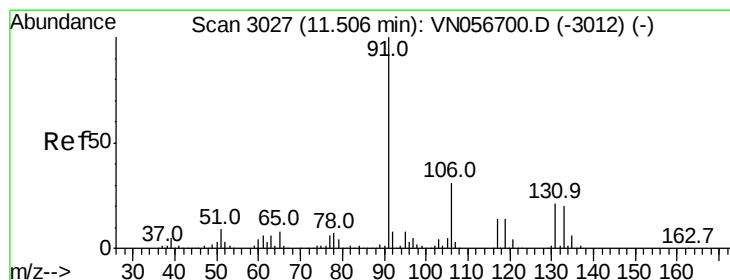
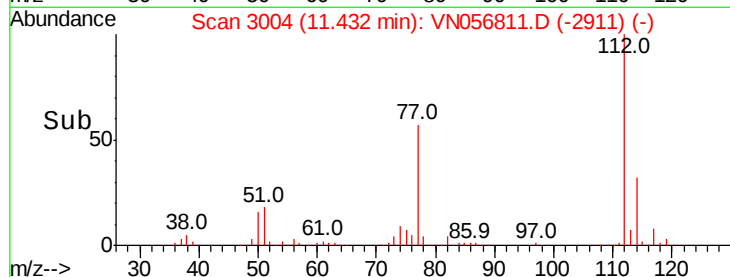
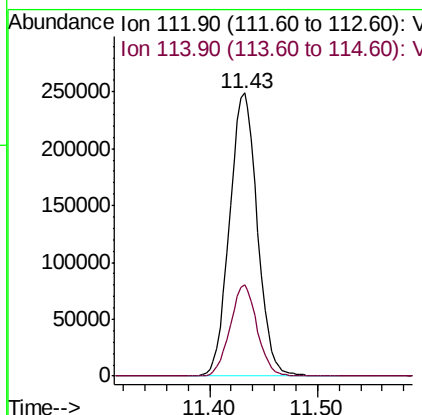
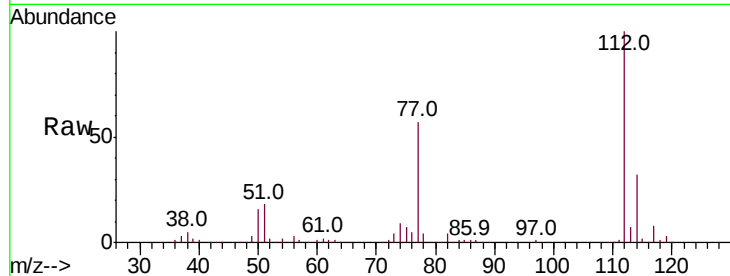
#65
Chlorobenzene
Concen: 49.946 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 447411
Ion Ratio Lower Upper
112 100
114 32.2 25.2 37.8

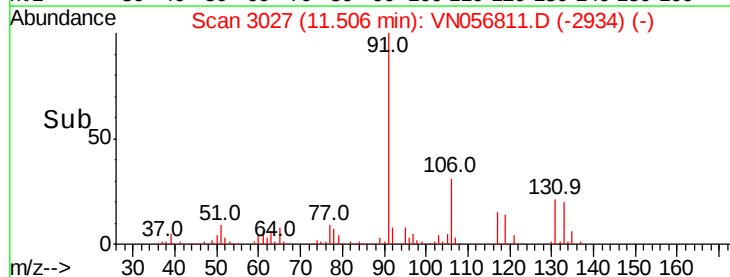
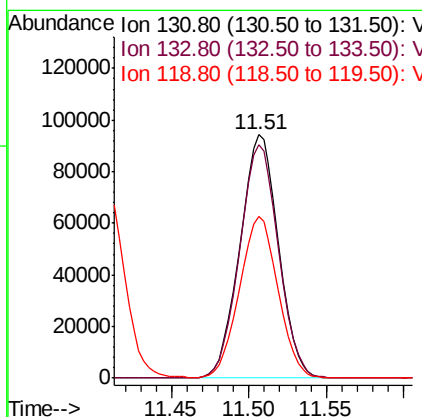
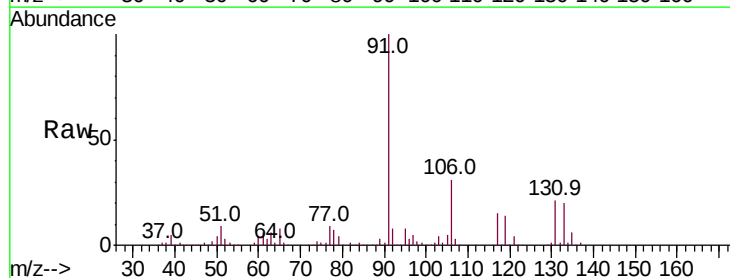
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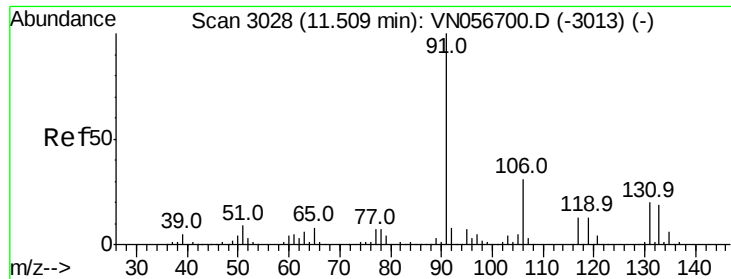
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#66
1,1,1,2-Tetrachloroethane
Concen: 49.518 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion:131 Resp: 163319
Ion Ratio Lower Upper
131 100
133 96.9 46.9 140.7
119 66.6 32.8 98.3





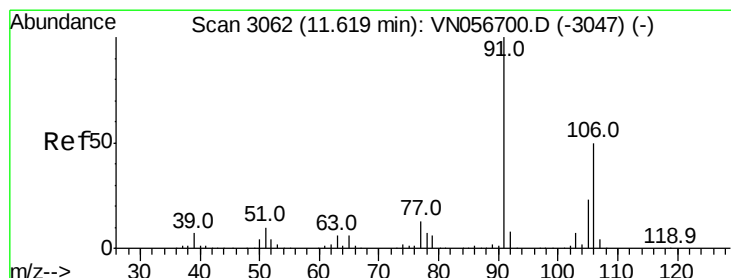
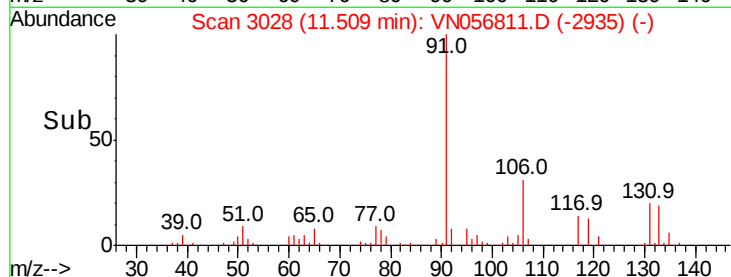
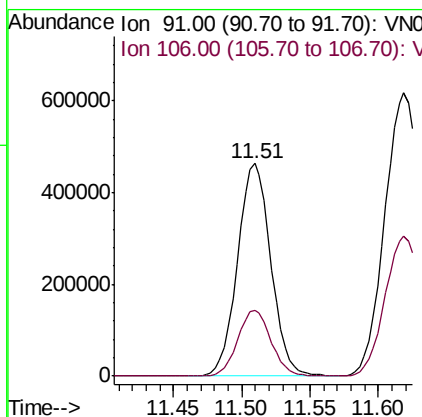
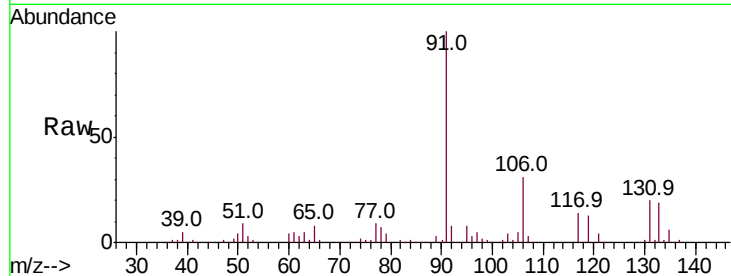
#67
Ethyl Benzene
Concen: 49.854 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 784838
Ion Ratio Lower Upper
91 100
106 31.2 24.8 37.2

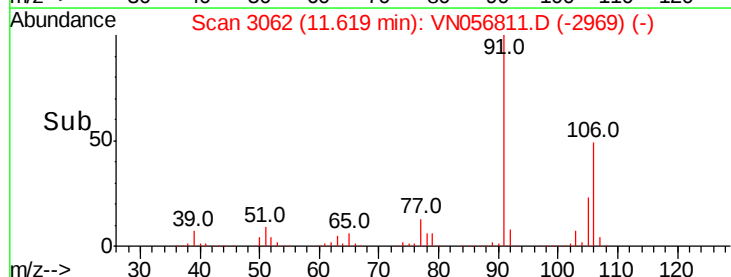
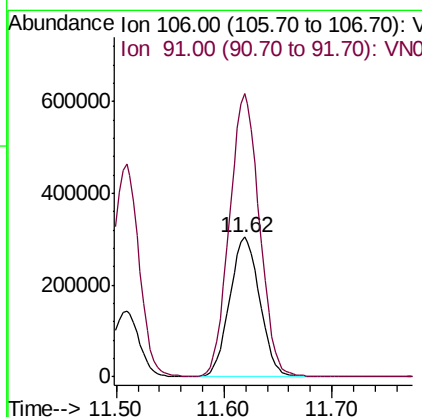
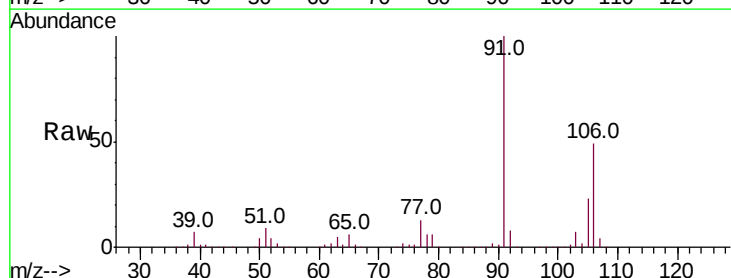
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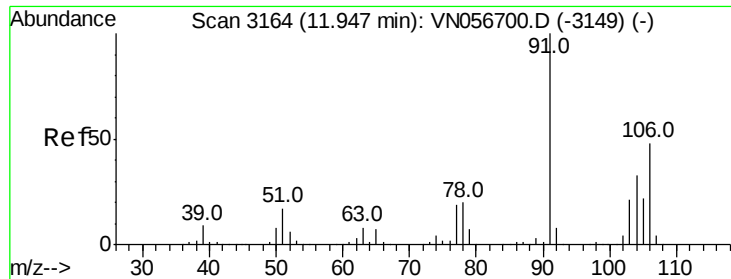
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#68
m/p-Xylenes
Concen: 100.960 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion: 106 Resp: 593991
Ion Ratio Lower Upper
106 100
91 201.7 160.5 240.7





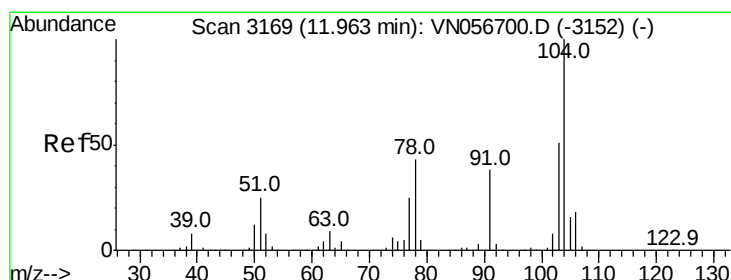
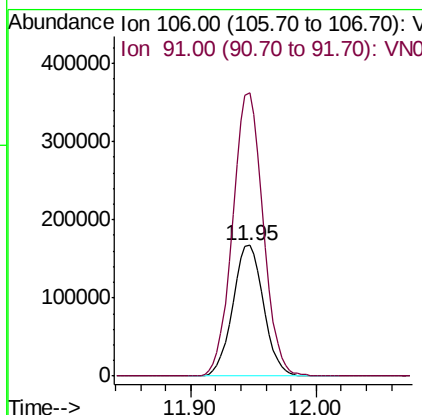
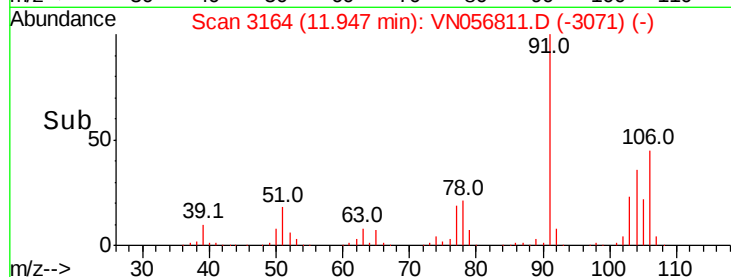
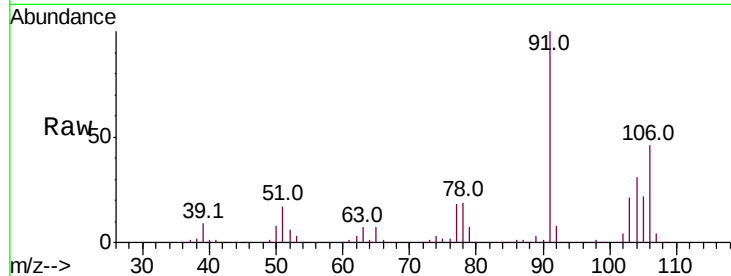
#69
o-Xylene
Concen: 49.249 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 284862
Ion Ratio Lower Upper
106 100
91 214.6 105.6 316.8

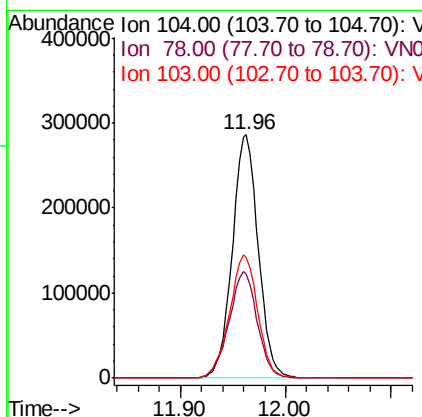
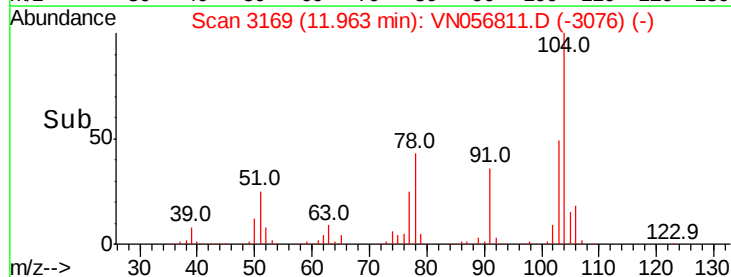
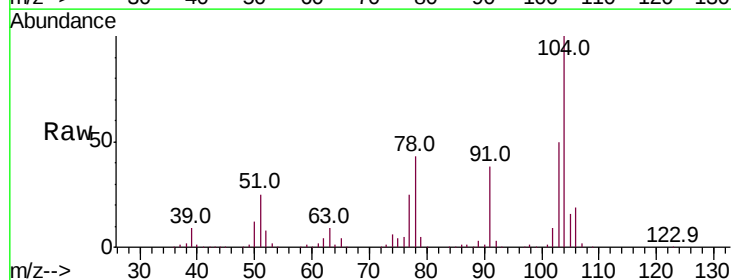
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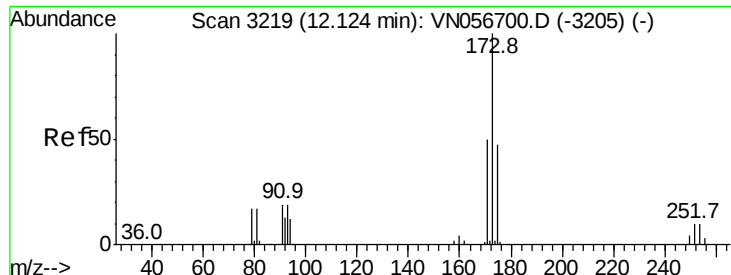
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#70
Styrene
Concen: 52.006 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion:104 Resp: 486317
Ion Ratio Lower Upper
104 100
78 47.8 38.6 57.8
103 55.0 44.2 66.4





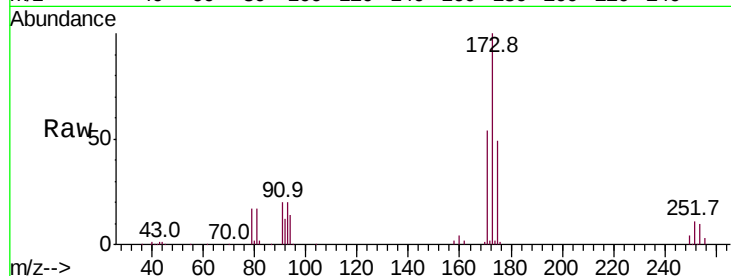
#71
Bromoform
Concen: 50.712 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.0	23.8	71.4
254	0.0	0.0	0.0

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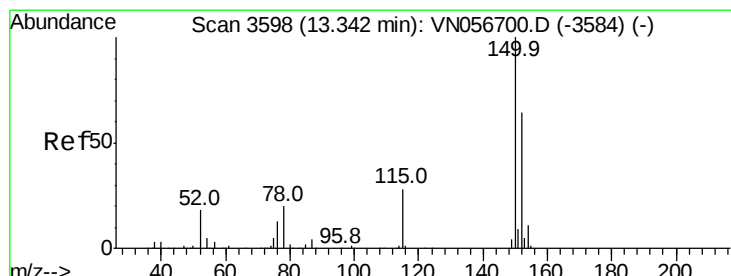
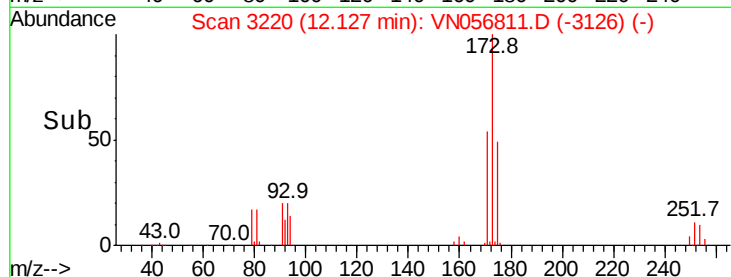
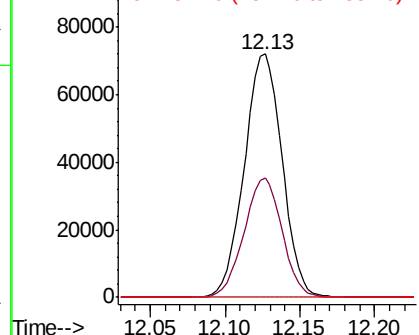


Abundance

Ion 172.70 (172.40 to 173.40): V

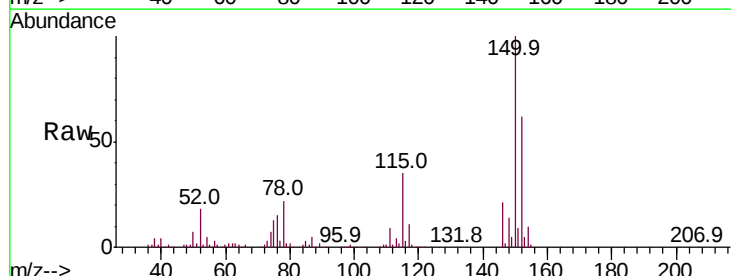
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	28.2	84.7
150	173.7	0.0	345.8

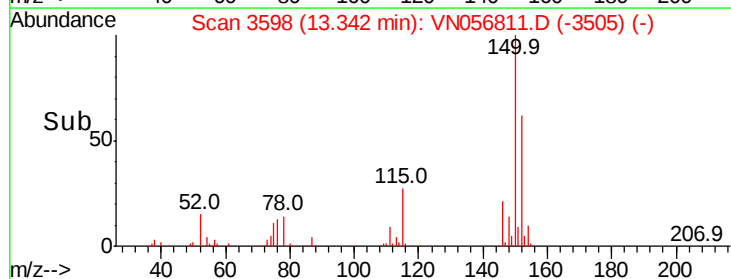
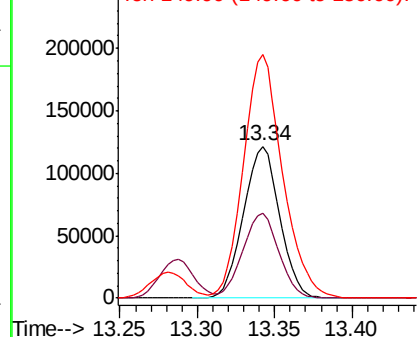


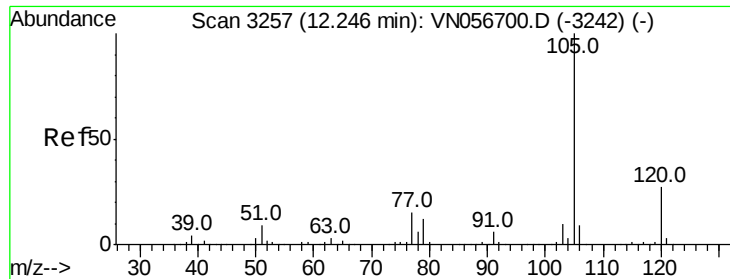
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 48.306 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 769507

Ion Ratio Lower Upper

105 100

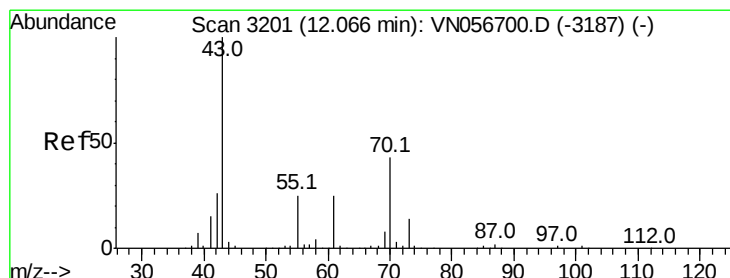
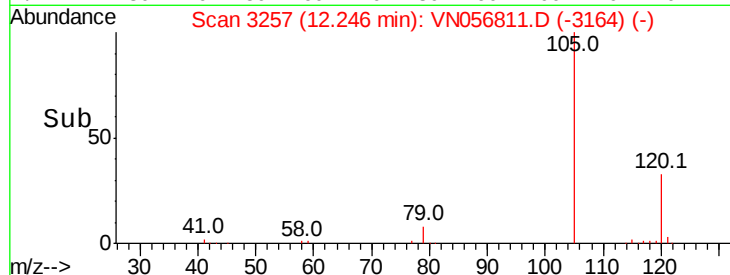
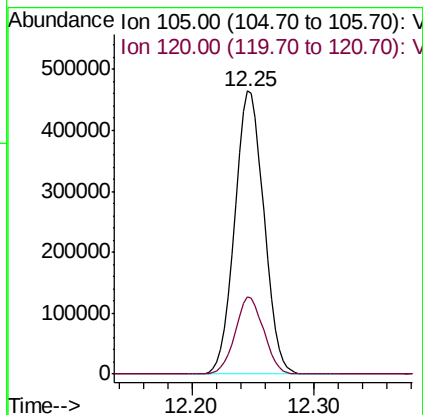
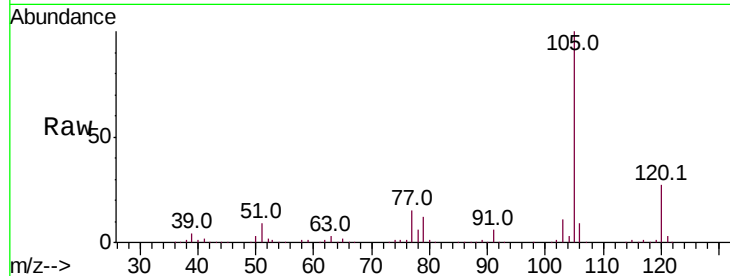
120 26.6 13.4 40.2

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#74

N-ethyl acetate

Concen: 48.285 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tgt Ion: 43 Resp: 286459

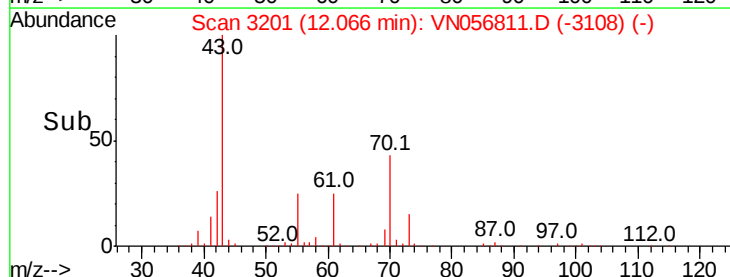
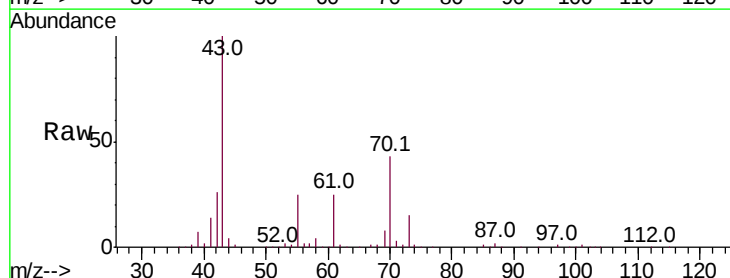
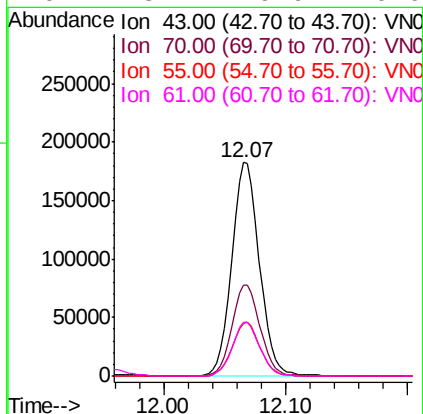
Ion Ratio Lower Upper

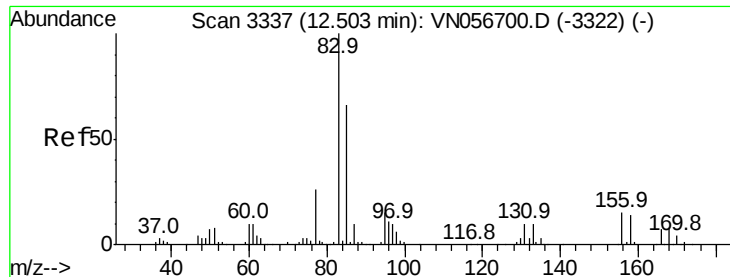
43 100

70 43.3 34.5 51.7

55 25.3 20.2 30.2

61 25.2 19.9 29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 51.563 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 237572

Ion Ratio Lower Upper

83 100

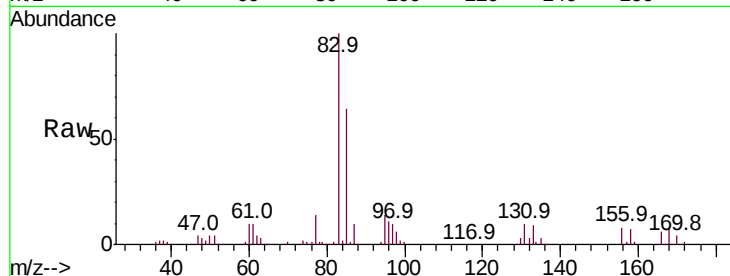
131 10.4 5.3 15.8

85 64.3 32.6 97.8

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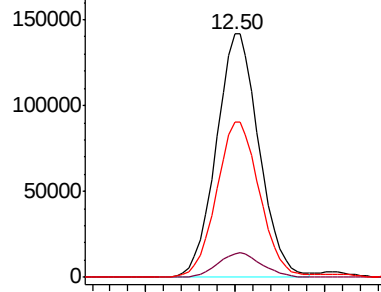
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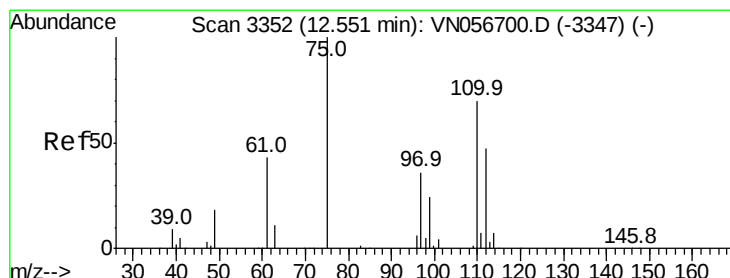
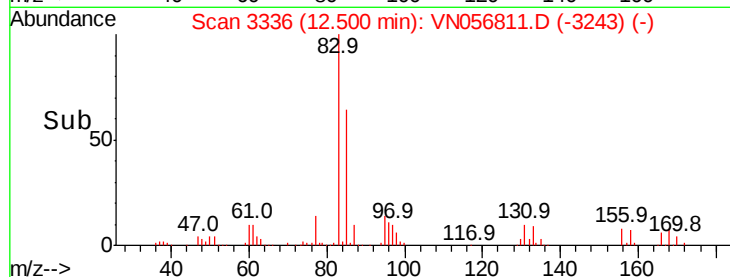
Abundance Ion 82.90 (82.60 to 83.60): VNC

Ion 130.80 (130.50 to 131.50): VNC

Ion 84.90 (84.60 to 85.60): VNC



Time-->



#76

1,2,3-Trichloropropane

Concen: 48.710 ug/l m

RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VN056811.D

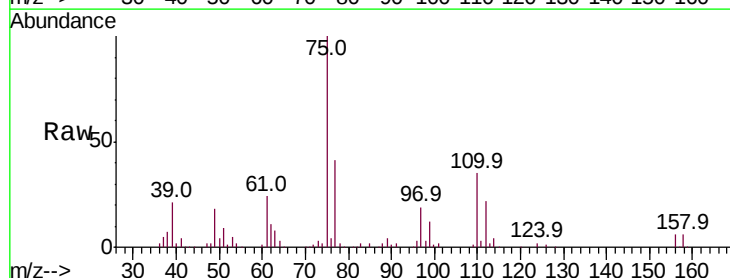
Acq: 18 Jul 2019 14:23

Tgt Ion: 75 Resp: 210479

Ion Ratio Lower Upper

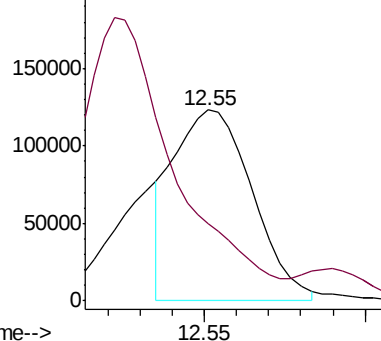
75 100

77 0.0 0.0 0.0

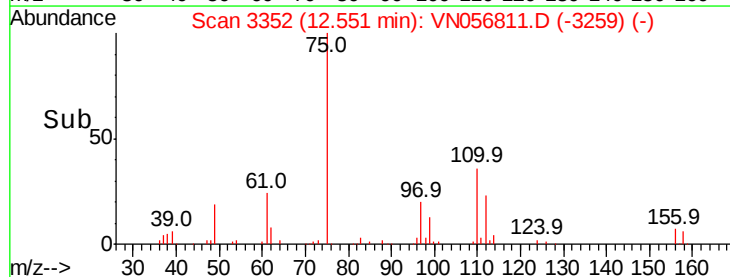


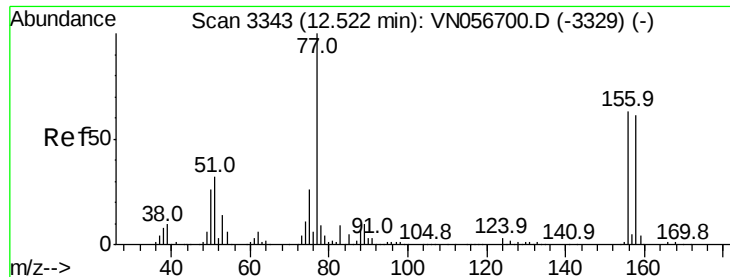
Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC



Time-->





#77

Bromobenzene

Concen: 47.985 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

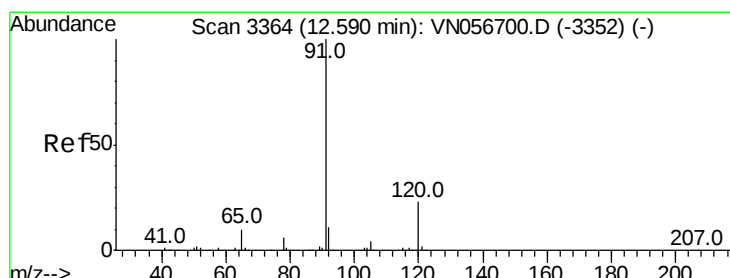
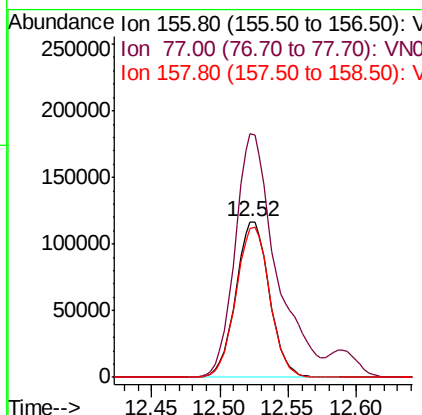
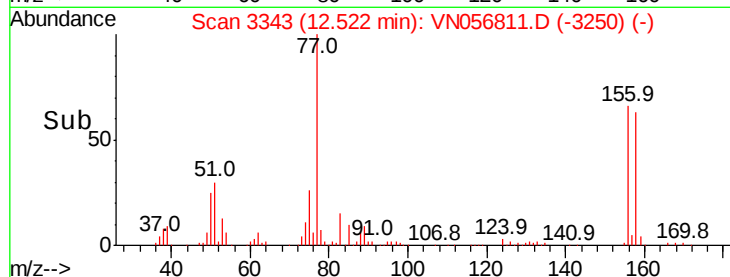
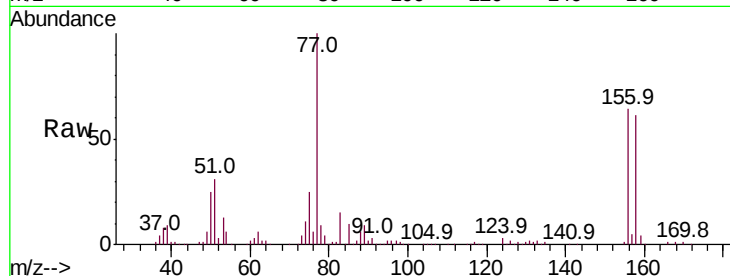
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	199934
Ion Ratio	Lower	Upper	
156	100		
77	190.1	97.2	291.6
158	97.1	48.9	146.8

Manual Integrations
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#78

n-propylbenzene

Concen: 48.634 ug/l

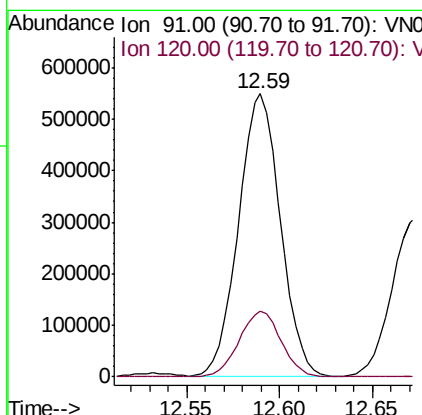
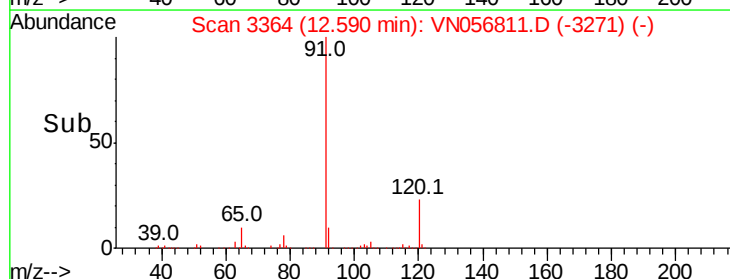
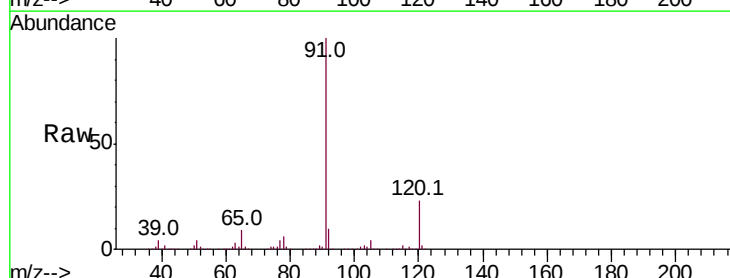
RT: 12.59 min Scan# 3364

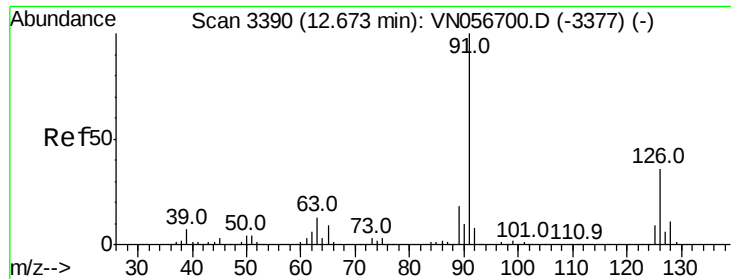
Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tgt Ion:	91	Resp:	860081
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.8	35.3





#79

2-Chlorotoluene

Concen: 52.669 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 513857

Ion Ratio Lower Upper

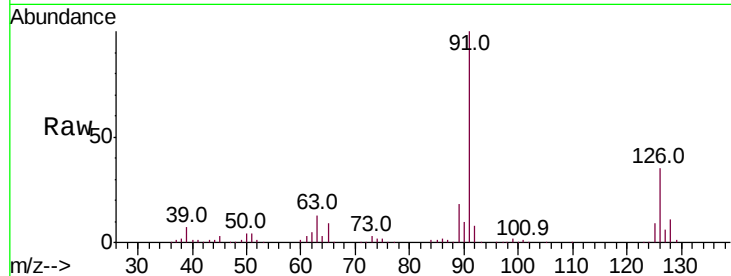
91 100

126 35.1 17.9 53.7

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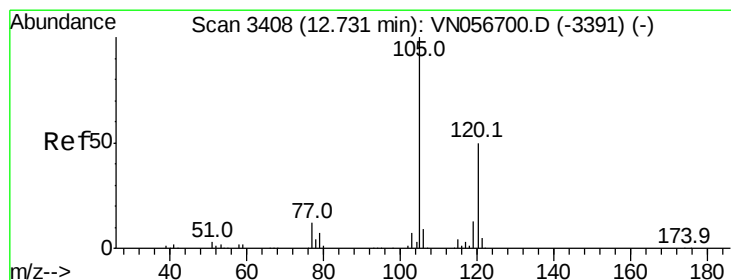
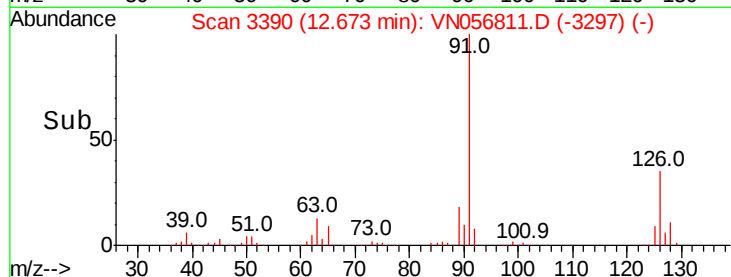
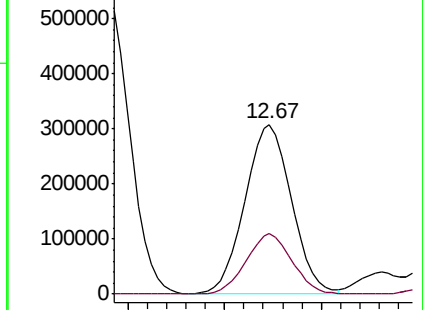
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Abundance Ion 91.00 (90.70 to 91.70): VN056700.D (-3377) (-)

Ion 125.90 (125.60 to 126.60): VN056700.D (-3377) (-)



#80

1,3,5-Trimethylbenzene

Concen: 48.444 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056811.D

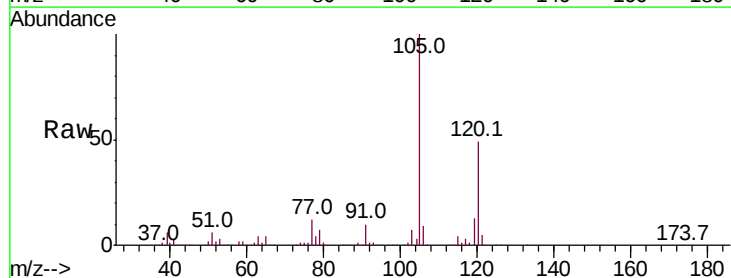
Acq: 18 Jul 2019 14:23

Tgt Ion: 105 Resp: 654046

Ion Ratio Lower Upper

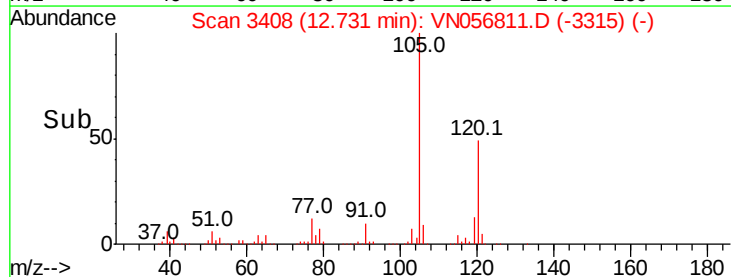
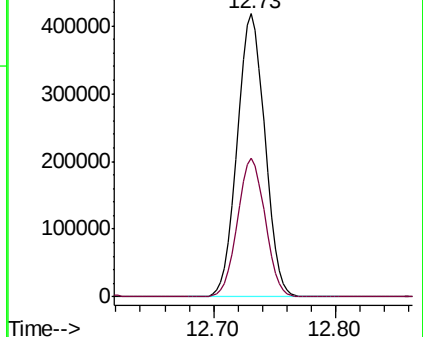
105 100

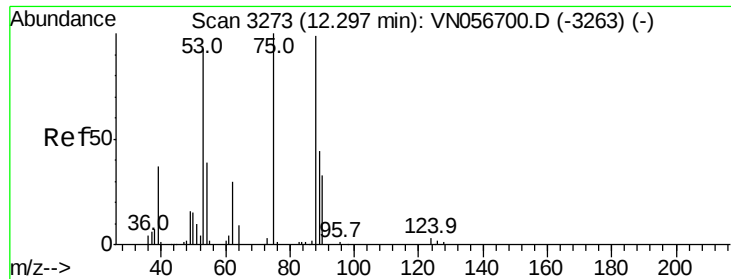
120 48.9 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): VN056700.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN056700.D (-3391) (-)





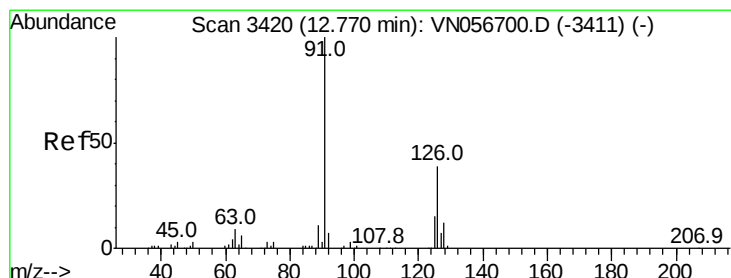
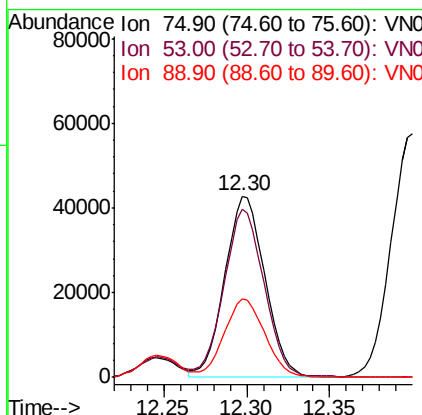
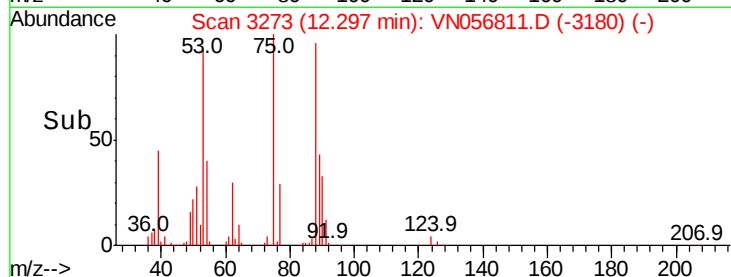
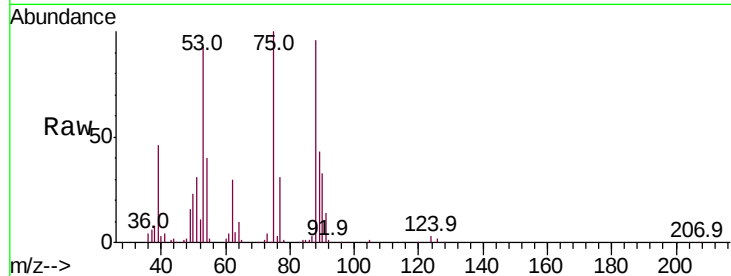
#81
trans-1,4-Dichloro-2-butene
Concen: 51.521 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	93.1	73.7	110.5
89	43.9	36.2	54.2

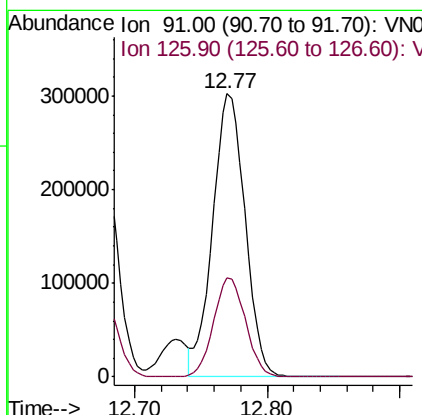
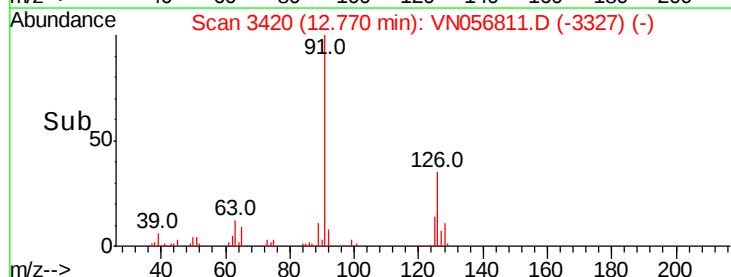
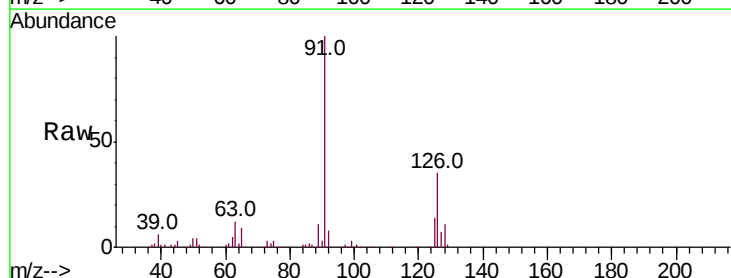
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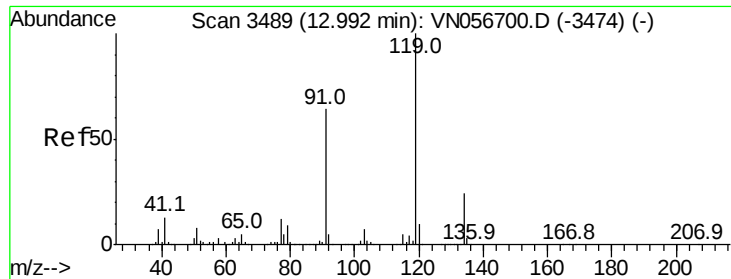
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#82
4-Chlorotoluene
Concen: 49.340 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.6	52.8





#83

tert-Butylbenzene

Concen: 52.565 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

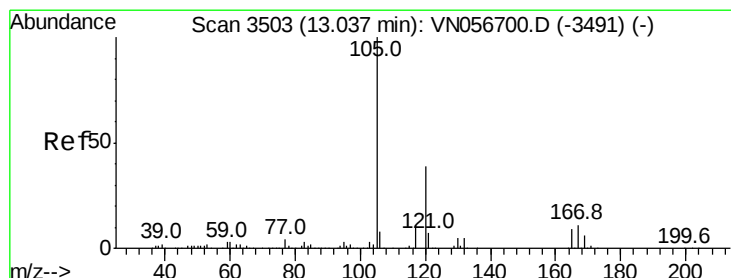
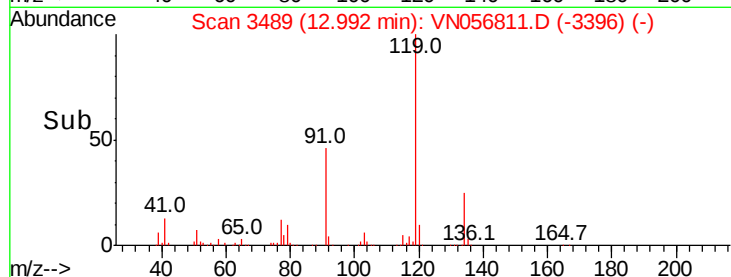
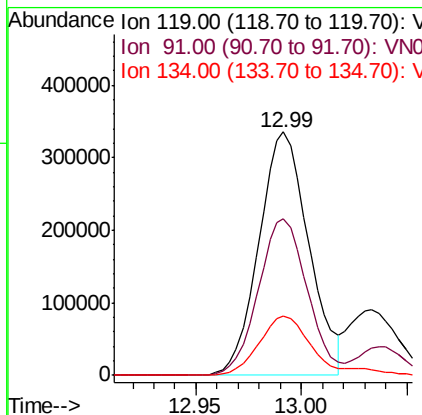
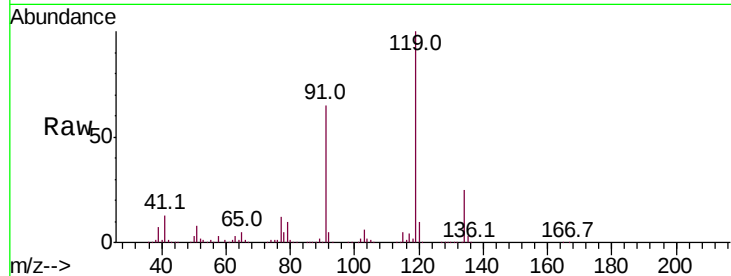
ClientSampleId :

VSTDCCC050

Tot Ion:	119	Resp:	552451
Ion Ratio	Lower	Upper	
119	100		
91	63.3	31.8	95.4
134	26.7	13.0	38.9

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 49.064 ug/l

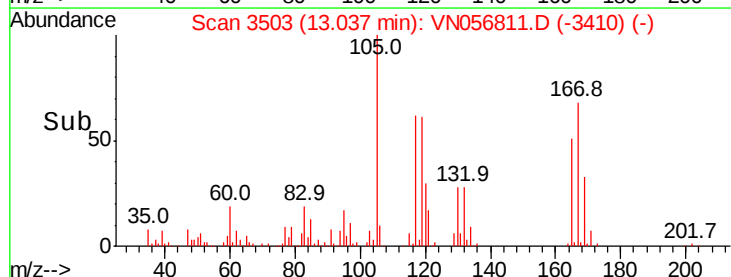
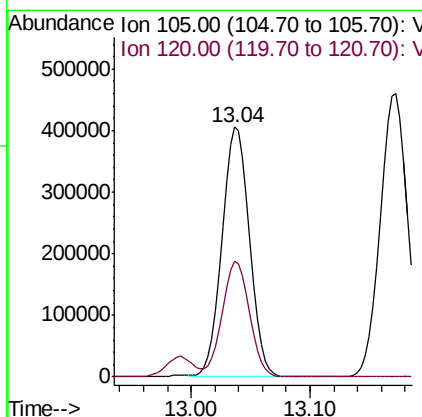
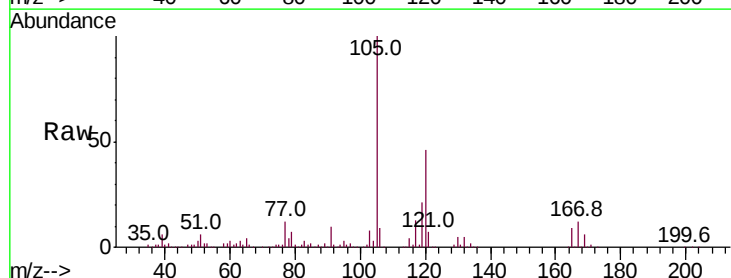
RT: 13.04 min Scan# 3503

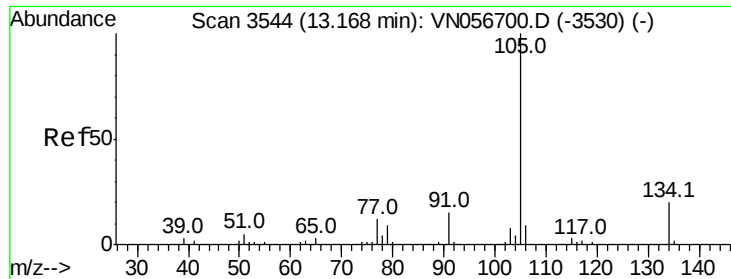
Delta R.T. -0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tgt Ion:	105	Resp:	647140
Ion Ratio	Lower	Upper	
105	100		
120	45.9	22.9	68.8





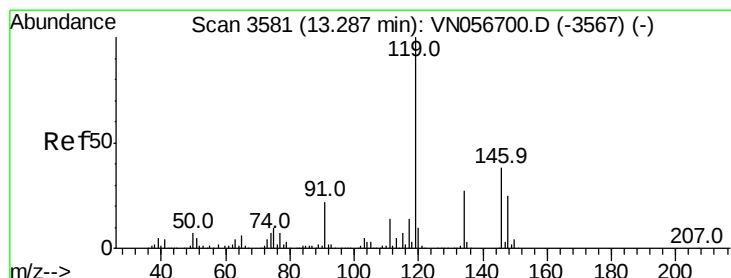
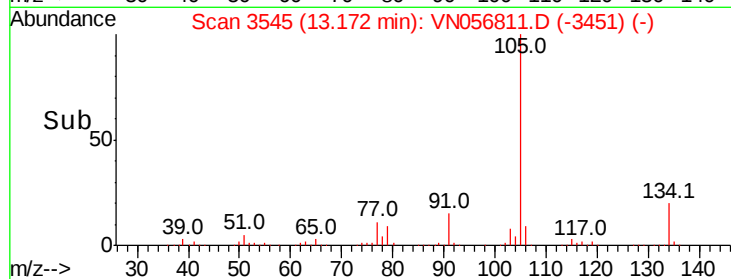
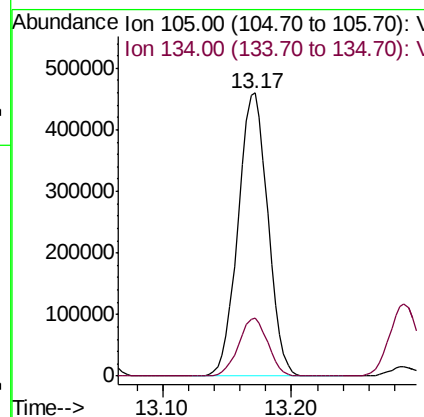
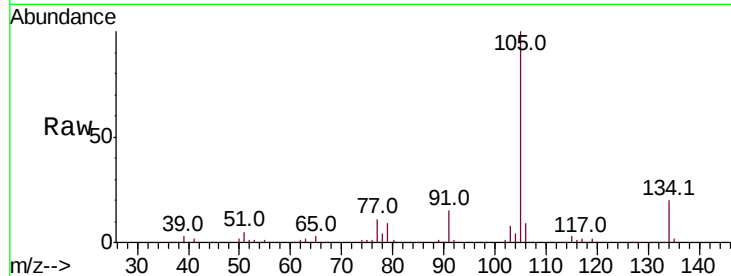
#85
 sec-Butylbenzene
 Concen: 49.139 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion:105 Resp: 737193
 Ion Ratio Lower Upper
 105 100
 134 20.3 10.1 30.1

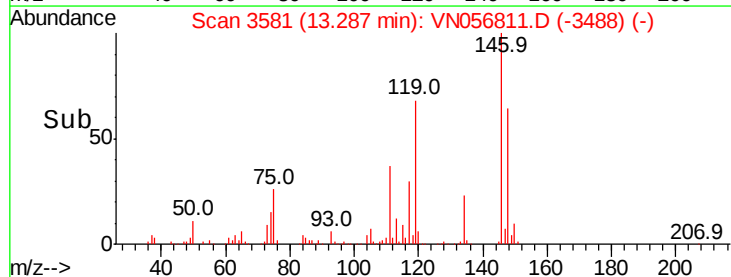
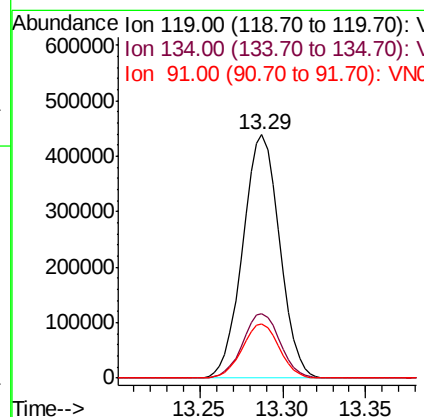
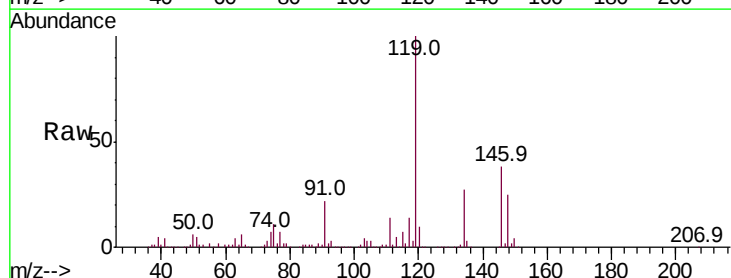
Manual Integrations
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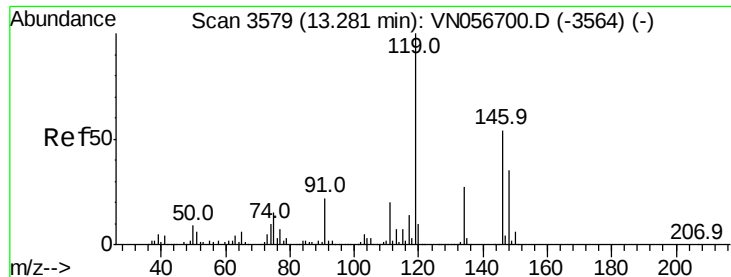
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#86
 p-Isopropyltoluene
 Concen: 49.772 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Tgt Ion:119 Resp: 676422
 Ion Ratio Lower Upper
 119 100
 134 26.8 13.6 40.7
 91 22.2 11.2 33.5





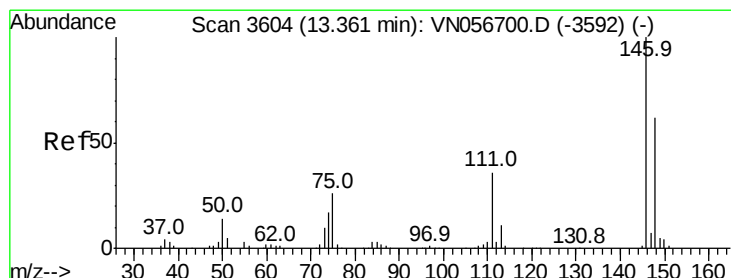
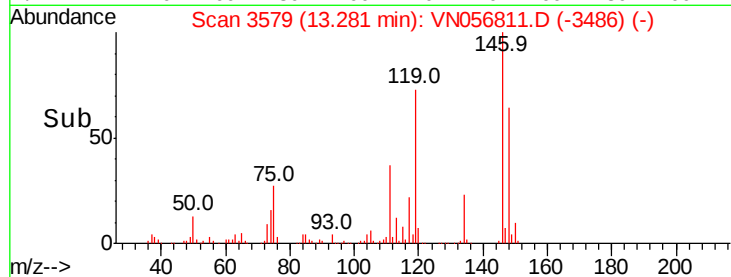
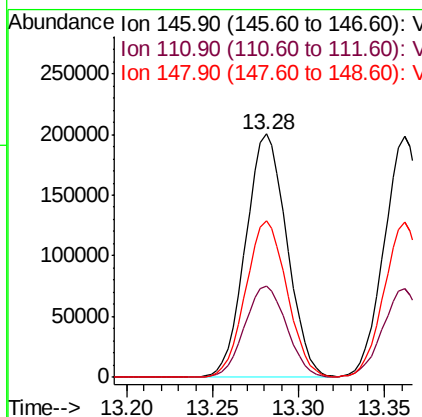
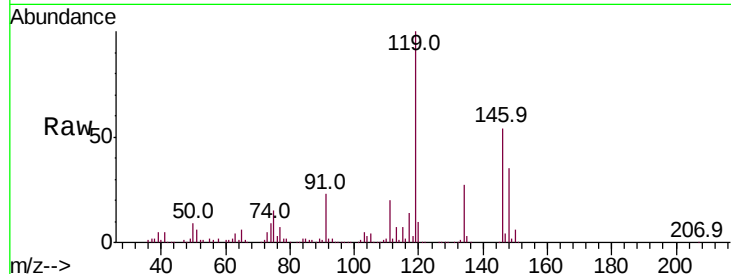
#87
 1,3-Dichlorobenzene
 Concen: 48.973 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.8	56.3
148	64.5	32.3	96.8

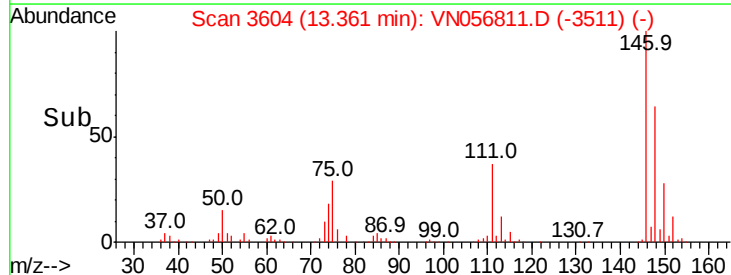
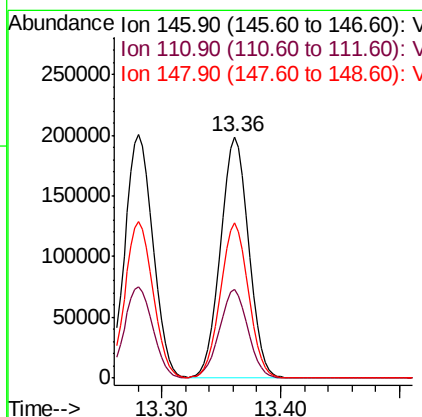
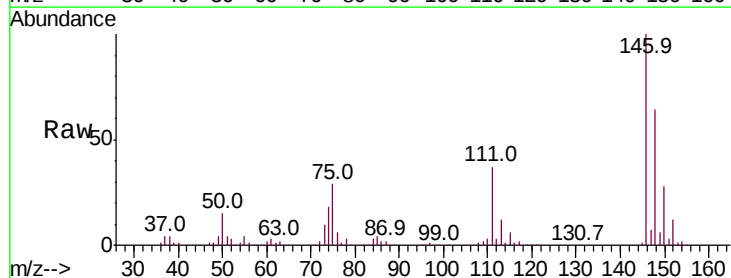
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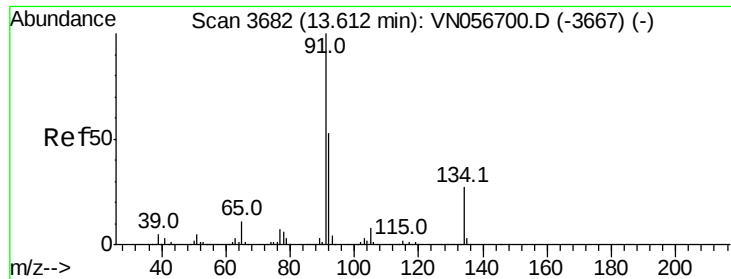
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#88
 1,4-Dichlorobenzene
 Concen: 49.157 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.6	55.8
148	63.9	31.9	95.7





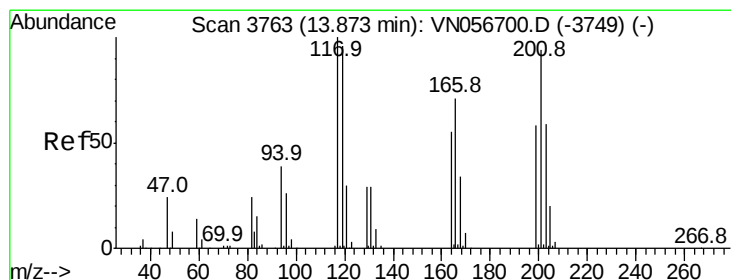
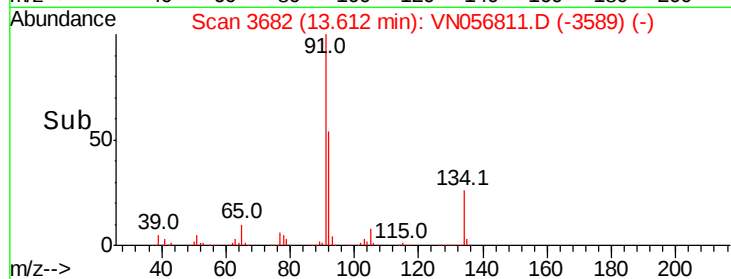
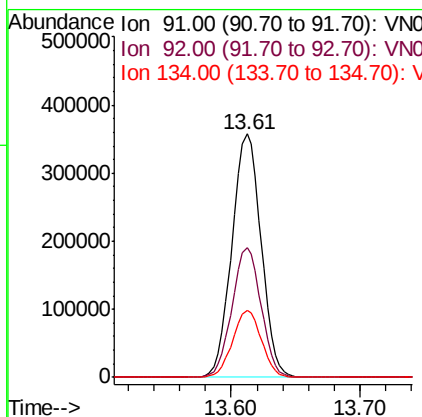
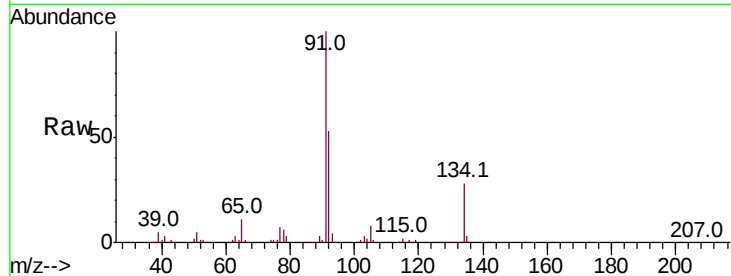
#89
n-Butylbenzene
Concen: 51.265 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	53.0	26.0	78.0	
134	27.2	13.4	40.2	

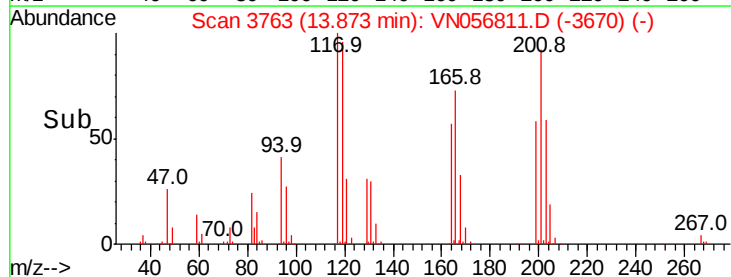
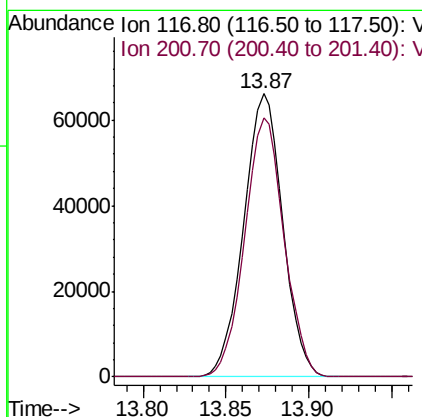
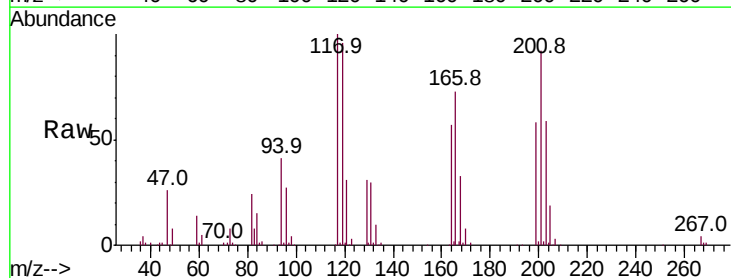
Manual Integrations
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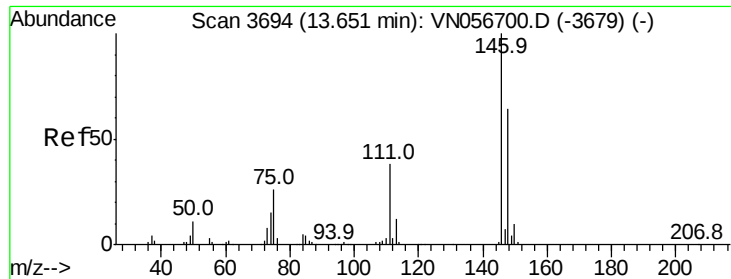
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#90
Hexachloroethane
Concen: 49.292 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN056811.D
Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	91.8	46.5	139.5	





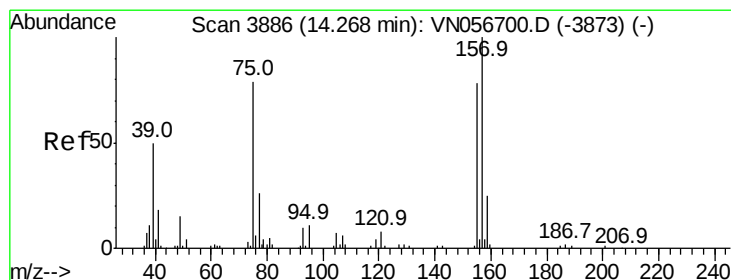
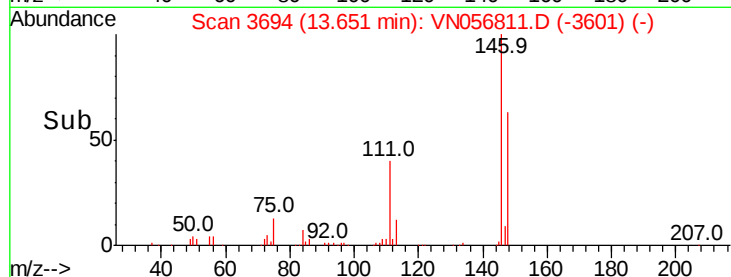
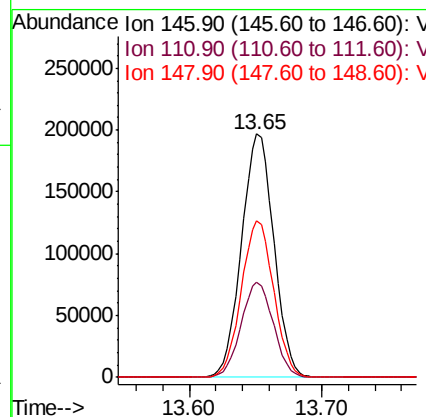
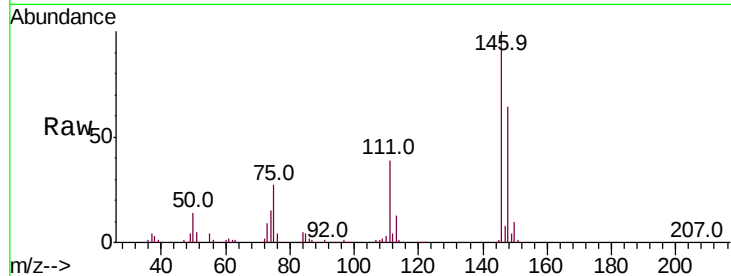
#91
 1,2-Dichlorobenzene
 Concen: 47.733 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.1	57.1
148	64.2	31.7	95.1

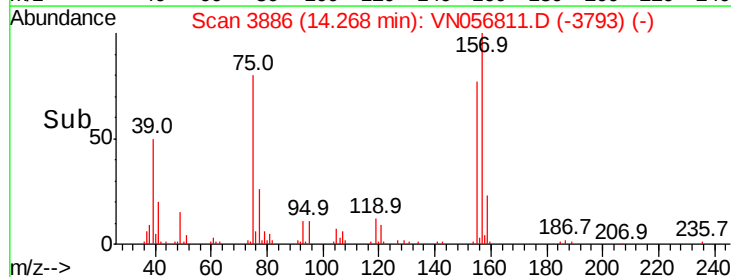
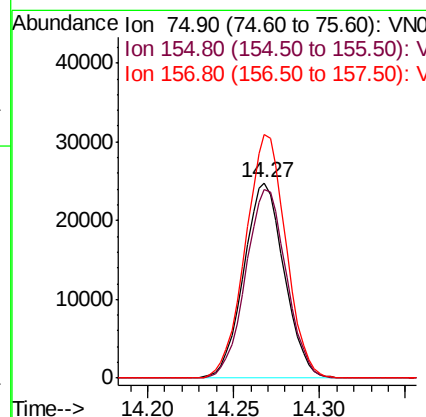
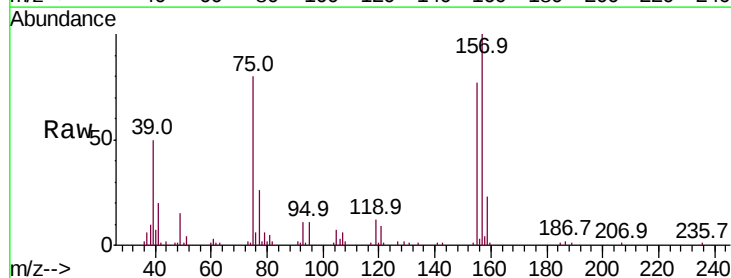
Manual Integrations
 APPROVED

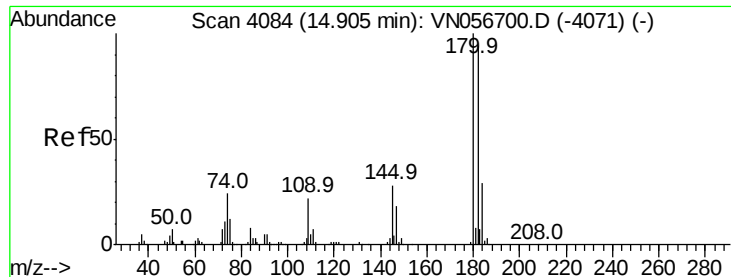
MMDadoda
 7/19/2019 11:31:42 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.378 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN056811.D
 Acq: 18 Jul 2019 14:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	97.0	49.3	147.9
157	124.9	62.4	187.1





#93

1,2,4-Trichlorobenzene

Concen: 44.980 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

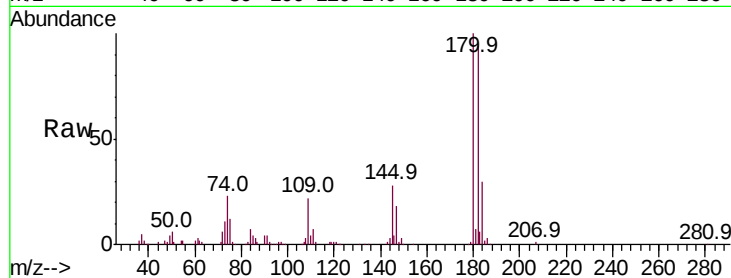
ClientSampleId :

VSTDCCC050

Tot Ion:	180	Resp:	171996
Ion Ratio	Lower	Upper	
180	100		
182	94.4	47.2	141.6
145	28.2	14.2	42.8

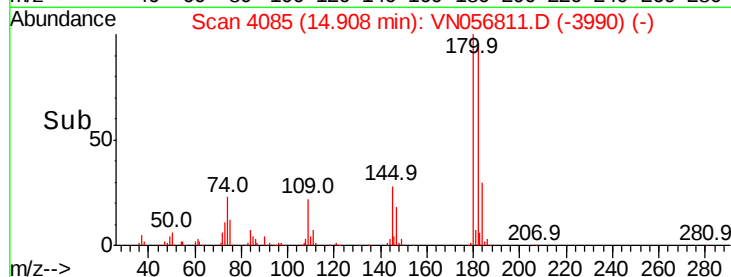
Manual Integrations
APPROVED

MMDadoda
7/19/2019 11:31:42 PM

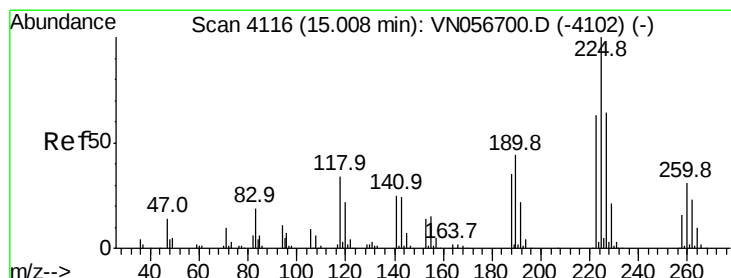


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

14.91



Time-->



#94

Hexachlorobutadiene

Concen: 54.425 ug/l

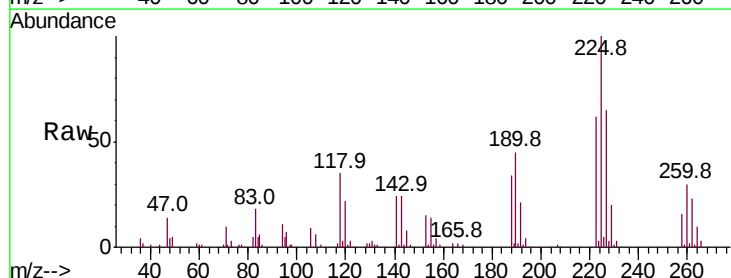
RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN056811.D

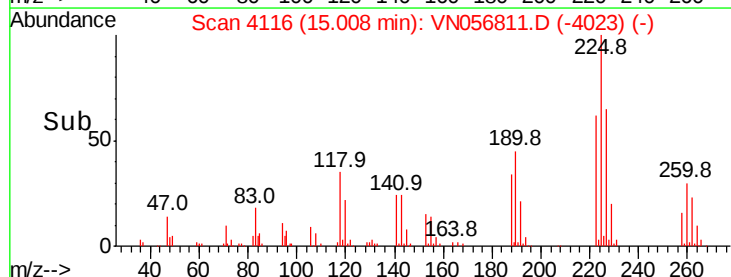
Acq: 18 Jul 2019 14:23

Tgt Ion:	225	Resp:	119164
Ion Ratio	Lower	Upper	
225	100		
223	63.0	31.5	94.5
227	64.9	32.0	96.2

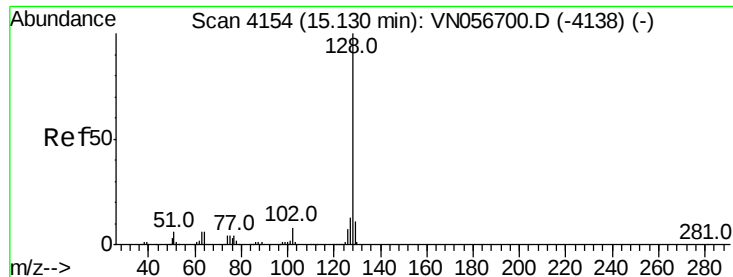


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

15.01



Time-->



#95

Naphthalene

Concen: 40.737 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Instrument :

MSVOA_N

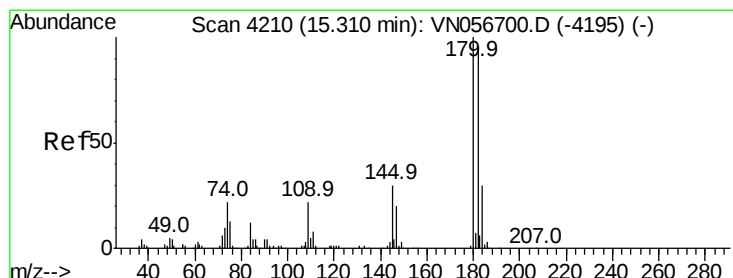
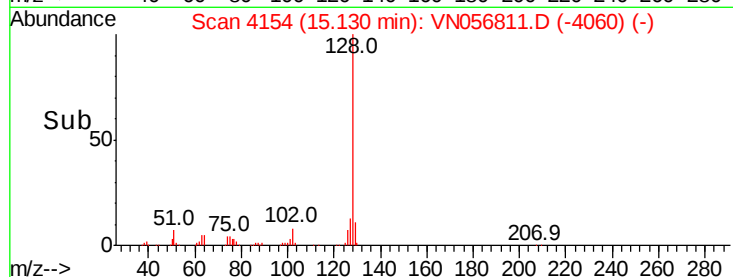
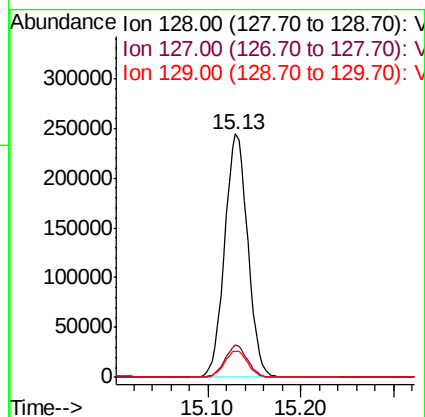
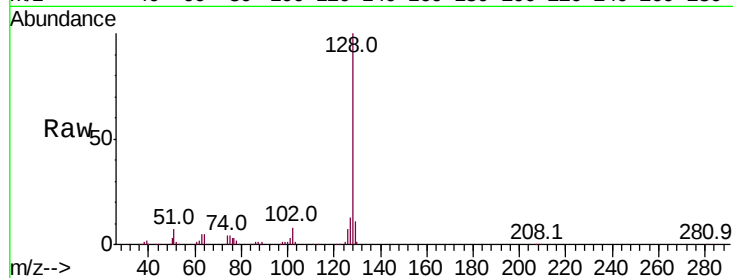
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	421449
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.3	15.5
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
7/19/2019 11:31:42 PM



#96

1,2,3-Trichlorobenzene

Concen: 45.033 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN056811.D

Acq: 18 Jul 2019 14:23

Tgt Ion:	180	Resp:	171147
Ion Ratio	Lower	Upper	
180	100		
182	96.3	47.1	141.3
145	29.8	15.0	45.1

