

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053019\
 Data File : VN055898.D
 Acq On : 30 May 2019 14:13
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 5/31/2019 9:38:27 AM

Quant Time: May 31 05:05:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	51488	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	275741	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	242812	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	102559	30.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.57%
60) 4-Bromofluorobenzene	12.40	95	110311	29.20	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.33%
63) Toluene-d8	10.09	98	335129	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	42549	18.848 ug/l	99
3) Chloromethane	2.06	50	61159	19.046 ug/l	99
4) Vinyl Chloride	2.18	62	63438	19.357 ug/l	100
5) Bromomethane	2.53	94	44462m	23.172 ug/l	
6) Chloroethane	2.68	64	40034	20.911 ug/l	94
7) Trichlorofluoromethane	3.00	101	82772	20.132 ug/l	100
8) Diethyl Ether	3.40	74	37705	20.861 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	52526	20.219 ug/l	99
10) 1,1-Dichloroethene	3.72	96	52727	19.401 ug/l	94
11) Methyl Iodide	3.94	142	77265	19.929 ug/l	98
12) Methyl Acetate	4.33	43	66432	19.987 ug/l	98
13) Acrolein	3.60	56	42605	92.251 ug/l	99
14) Acrylonitrile	4.99	53	149194	98.454 ug/l	99
15) Acetone	3.82	58	51669	109.788 ug/l	99
16) Carbon Disulfide	4.03	76	128914	16.544 ug/l	99
17) Allyl chloride	4.31	41	88013	17.981 ug/l	95
18) Methylene Chloride	4.54	84	61796	19.854 ug/l	98
19) trans-1,2-Dichloroethene	5.03	96	56629	19.370 ug/l	95
20) Diisopropyl ether	5.96	45	180309	18.990 ug/l	95
21) 1,1-Dichloroethane	5.84	63	103984	19.377 ug/l	100
22) cis-1,2-Dichloroethene	6.82	96	67276	19.731 ug/l	97
23) tert-Butyl Alcohol	4.81	59	58517	87.927 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	178697	19.378 ug/l	98
25) Chloroform	7.37	83	104060	19.633 ug/l	98
26) Cyclohexane	7.65	56	94041	18.995 ug/l	# 98
29) 1,1-Dichloropropene	7.79	75	76336	19.775 ug/l	99
30) 2-Butanone	6.84	43	211899	102.990 ug/l	99
31) 2,2-Dichloropropane	6.82	77	83741	18.642 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	88176	19.272 ug/l	100
33) Carbon Tetrachloride	7.77	117	74178	18.124 ug/l	98
34) Benzene	8.04	78	242664	20.362 ug/l	99
35) Methacrylonitrile	7.17	41	36854	19.407 ug/l	99
36) 1,2-Dichloroethane	8.12	62	79598	20.438 ug/l	99
37) Trichloroethene	8.83	130	67375	20.263 ug/l	99
38) Methylcyclohexane	9.08	83	95080	19.441 ug/l	99
39) 1,2-Dichloropropane	9.12	63	63421	19.796 ug/l	96
40) Dibromomethane	9.21	93	42536	20.561 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	77681	18.321	ug/l	100
42) Vinyl Acetate	5.90	43	763322	95.556	ug/l	100
43) Ethyl Acetate	6.93	43	79653	19.696	ug/l #	100
44) Isopropyl Acetate	8.17	43	126019	18.818	ug/l #	87
45) 1,4-Dioxane	9.20	88	25997	412.634	ug/l	97
46) Methyl methacrylate	9.20	41	59922	19.178	ug/l	99
47) n-amyl Acetate	12.07	43	103281	18.646	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	80908	17.287	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	93465	18.245	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	60807	20.190	ug/l	99
51) Ethyl methacrylate	10.43	69	92047	18.962	ug/l	99
52) 1,3-Dichloropropane	10.71	76	100212	20.187	ug/l	99
53) Dibromochloromethane	10.90	129	61817	17.375	ug/l	98
54) 1,2-Dibromoethane	11.00	107	62911	20.187	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	169612	89.800	ug/l	99
56) Bromoform	12.13	173	42653	14.615	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	396687	98.687	ug/l	100
59) 2-Hexanone	10.75	43	284602	99.037	ug/l	100
61) Tetrachloroethene	10.63	164	65744	20.002	ug/l	98
62) Toluene	10.16	91	266525	20.412	ug/l	99
64) Chlorobenzene	11.43	112	160101	20.213	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	58524	18.338	ug/l	99
66) Ethyl Benzene	11.51	91	285197	19.991	ug/l	99
67) m/p-Xylenes	11.62	106	217394	40.112	ug/l	99
68) o-Xylene	11.95	106	107808	20.102	ug/l	98
69) Styrene	11.96	104	172654	19.513	ug/l	98
70) Isopropylbenzene	12.25	105	285798	20.367	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	85443	19.786	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	76048m	20.461	ug/l	
73) Bromobenzene	12.53	156	71891	19.366	ug/l	99
74) n-propylbenzene	12.59	91	299363	19.781	ug/l	100
75) 2-Chlorotoluene	12.67	91	189471	20.495	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	233755	20.153	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	21166	14.337	ug/l	85
78) 4-Chlorotoluene	12.77	91	170733	19.487	ug/l	99
79) tert-butylbenzene	12.99	119	209331	20.529	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	226742	19.692	ug/l	99
81) sec-Butylbenzene	13.17	105	265764	20.513	ug/l	99
82) p-Isopropyltoluene	13.29	119	236954	19.873	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	111410	19.145	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	103046	18.594	ug/l	99
85) n-Butylbenzene	13.61	91	171481	18.487	ug/l	98
86) Hexachloroethane	13.87	117	37333	15.919	ug/l	89
87) 1,2-Dichlorobenzene	13.65	146	113649	19.395	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13421	16.397	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	46250	14.622	ug/l	97
90) Hexachlorobutadiene	15.01	225	40304	17.077	ug/l	98
91) Naphthalene	15.13	128	138566	16.033	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	54079	16.359	ug/l	98

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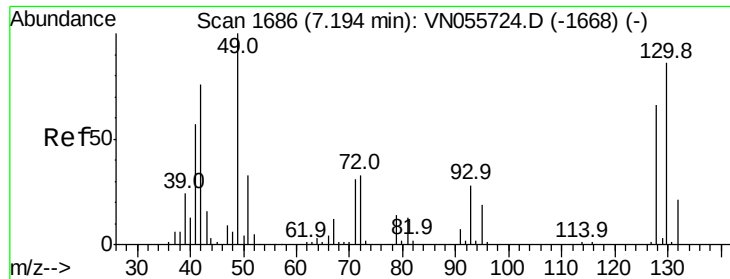
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion:128 Resp: 51488

Ion Ratio Lower Upper

128 100

49 147.8 0.0 383.2

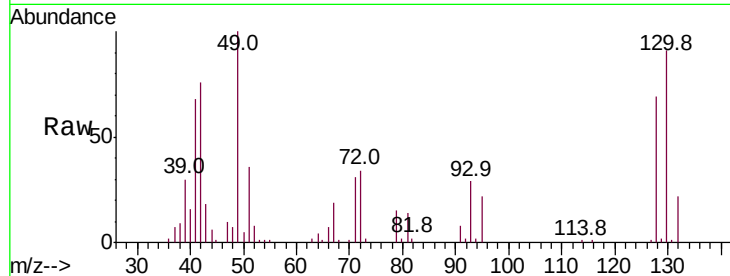
130 130.3 0.0 326.3

Manual Integrations

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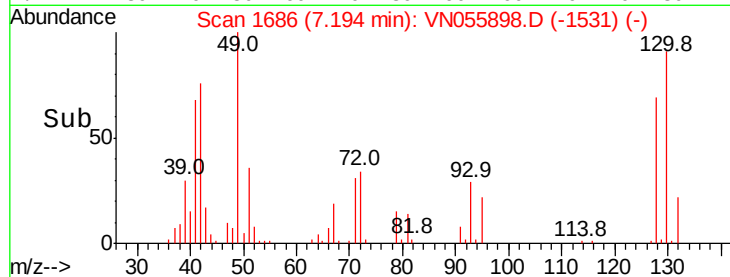
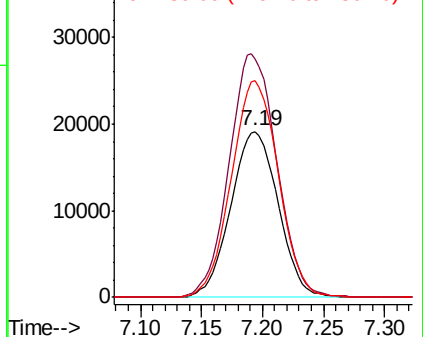
5/31/2019 9:38:27 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 18.848 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN055898.D

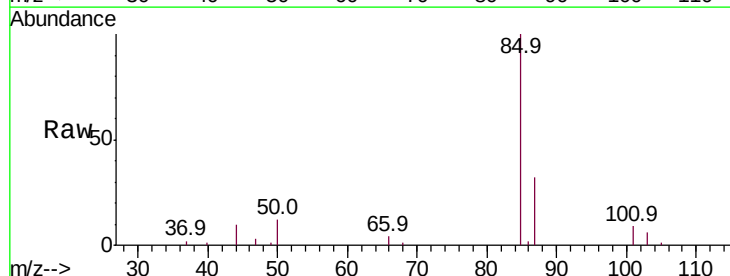
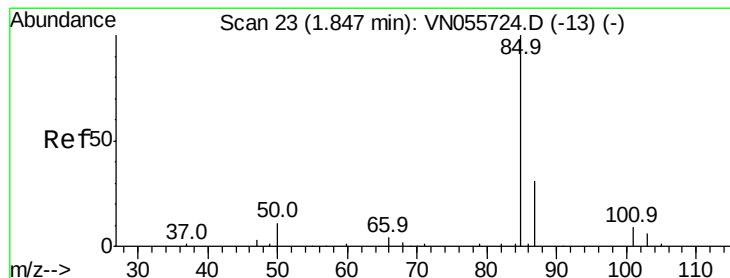
Acq: 30 May 2019 14:13

Tgt Ion: 85 Resp: 42549

Ion Ratio Lower Upper

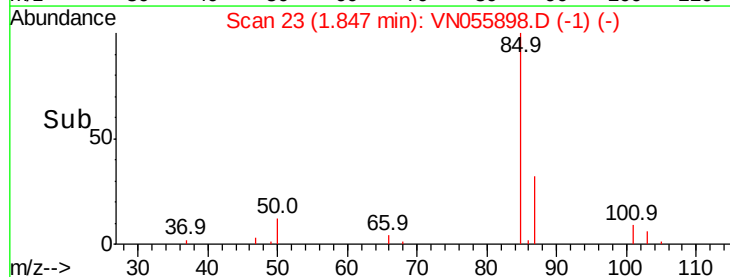
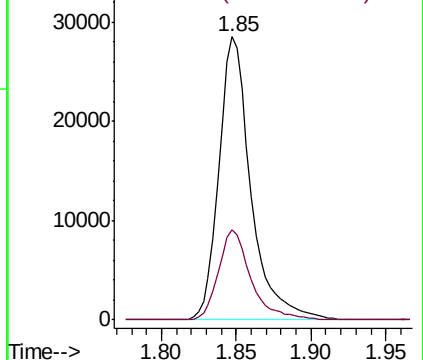
85 100

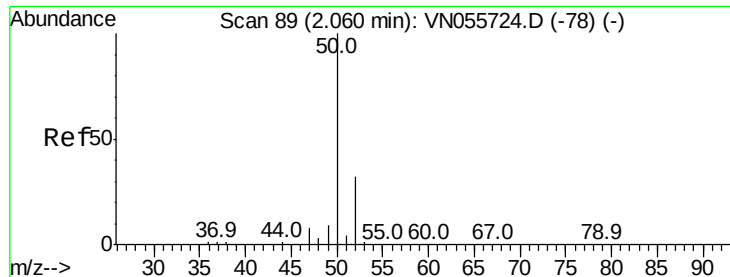
87 31.9 15.7 47.0



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 19.046 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 50 Resp: 61159

Ion Ratio Lower Upper

50 100

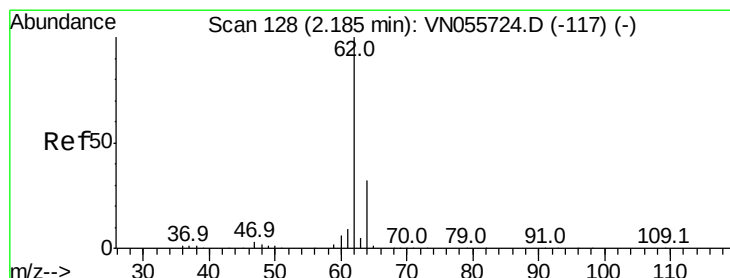
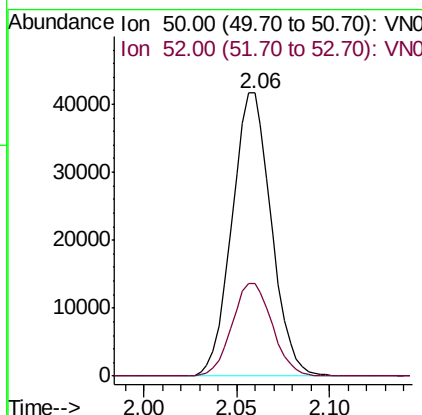
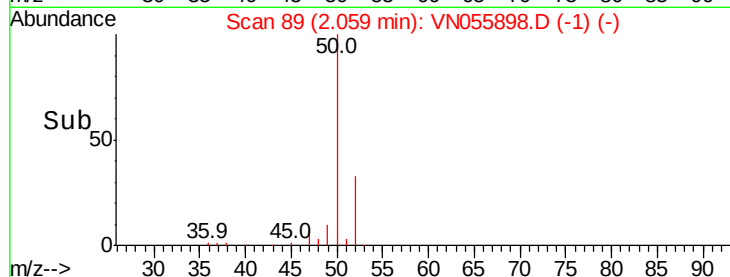
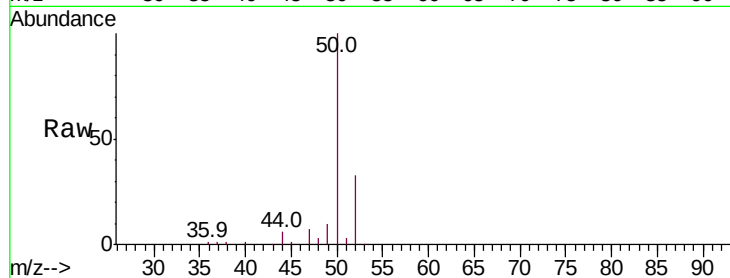
52 32.6 25.4 38.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.357 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN055898.D

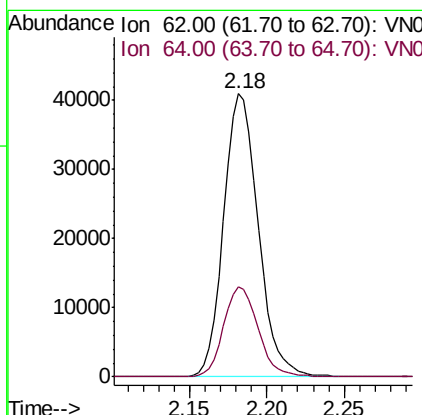
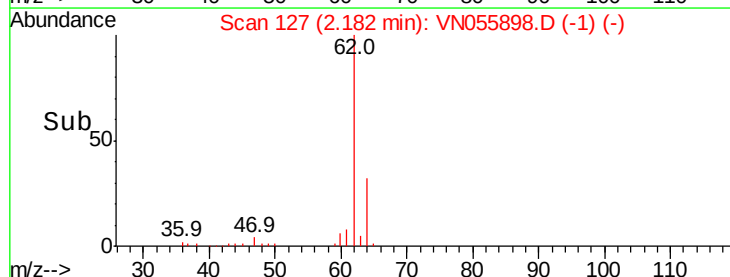
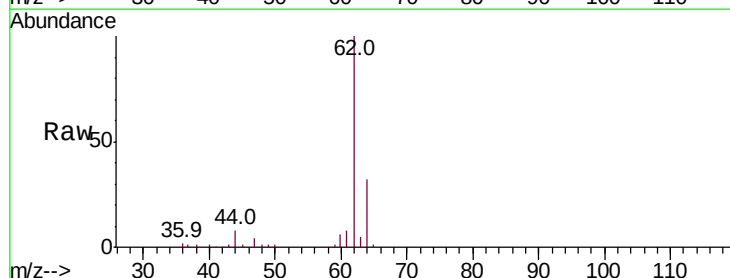
Acq: 30 May 2019 14:13

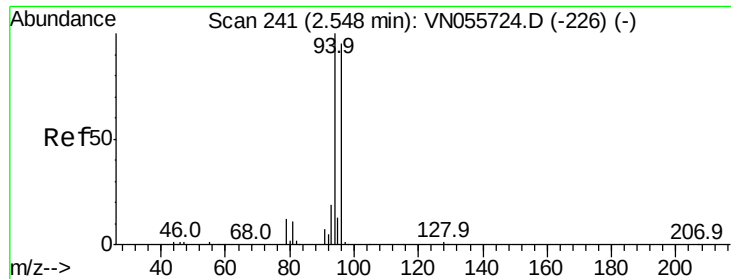
Tgt Ion: 62 Resp: 63438

Ion Ratio Lower Upper

62 100

64 31.9 25.7 38.5





#5

Bromomethane

Concen: 23.172 ug/l m

RT: 2.53 min Scan# 236

Delta R.T. -0.02 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 94 Resp: 44462

Ion Ratio Lower Upper

94 100

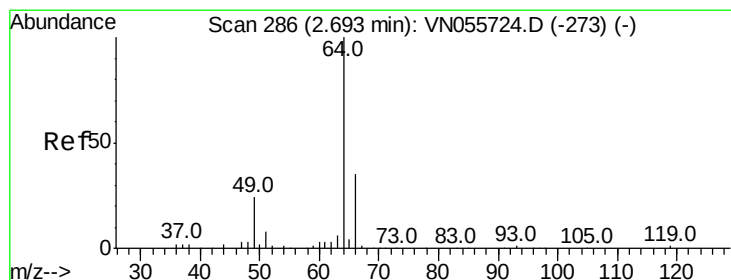
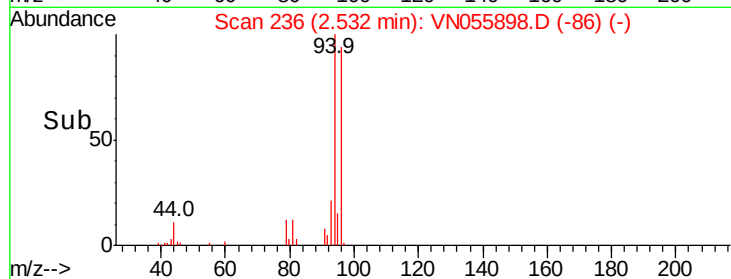
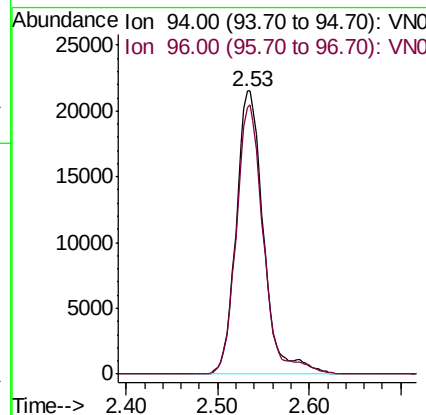
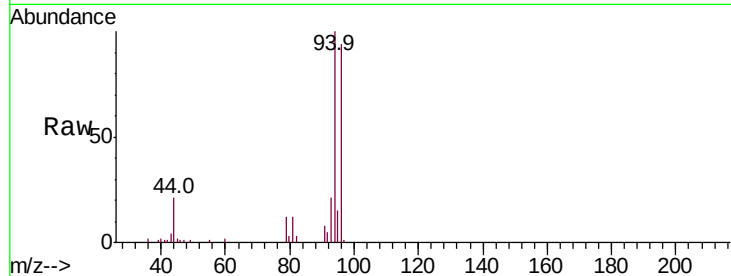
96 94.4 75.8 113.8

Manual Integrations

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#6

Chloroethane

Concen: 20.911 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.01 min

Lab File: VN055898.D

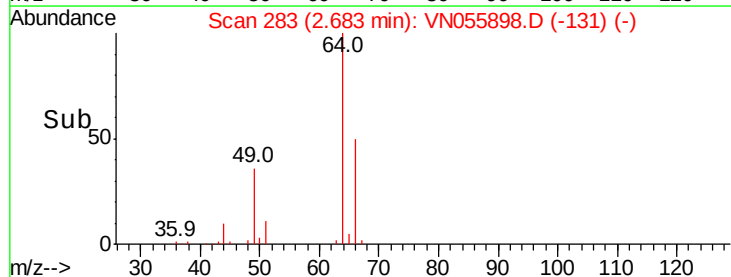
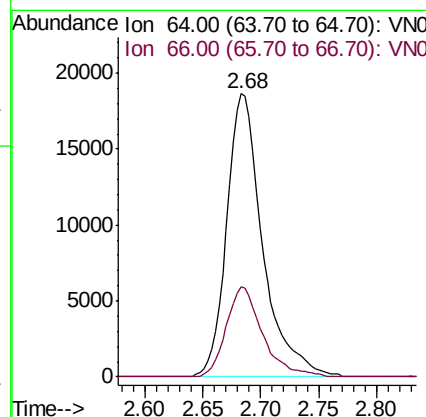
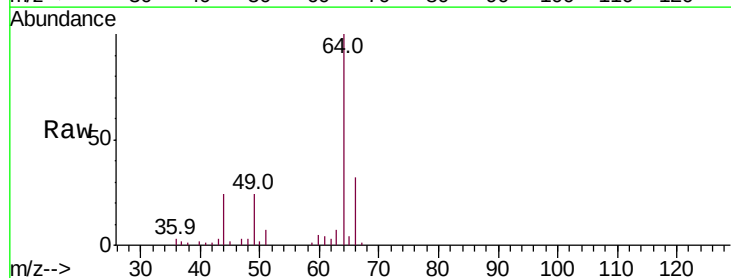
Acq: 30 May 2019 14:13

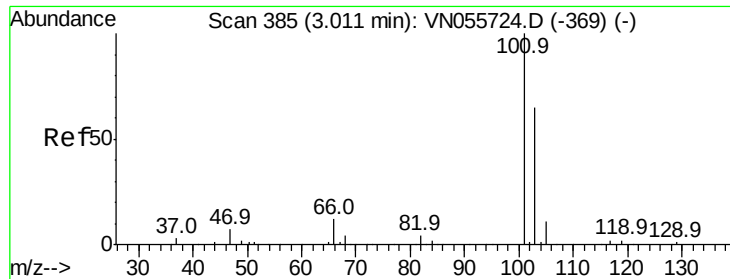
Tgt Ion: 64 Resp: 40034

Ion Ratio Lower Upper

64 100

66 31.7 27.9 41.9





#7

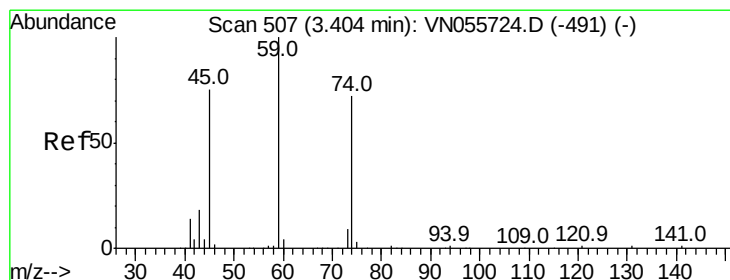
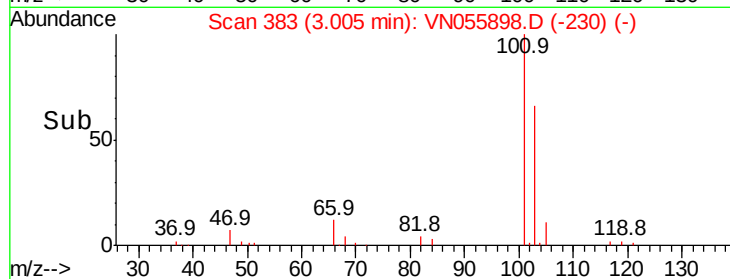
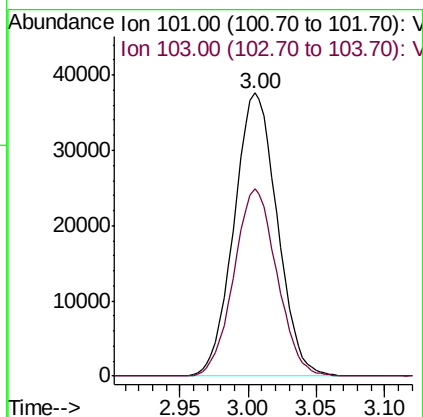
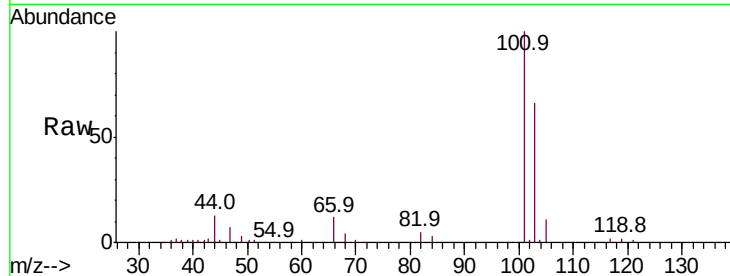
Trichlorofluoromethane
Concen: 20.132 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.01 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
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ClientSampleId :
VSTDCCC020

Tot Ion:101 Resp: 82772
Ion Ratio Lower Upper
101 100
103 66.0 52.6 78.8

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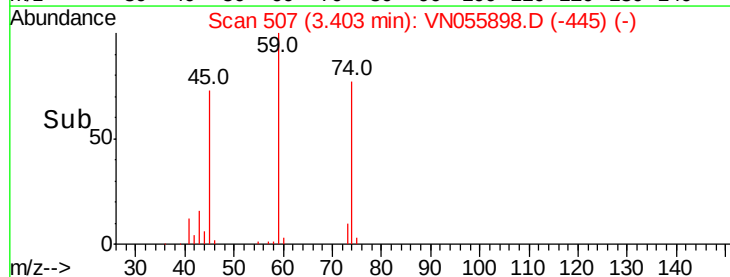
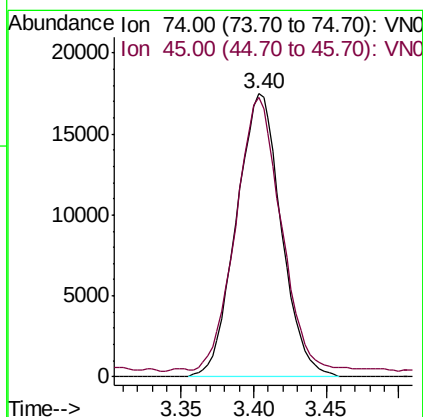
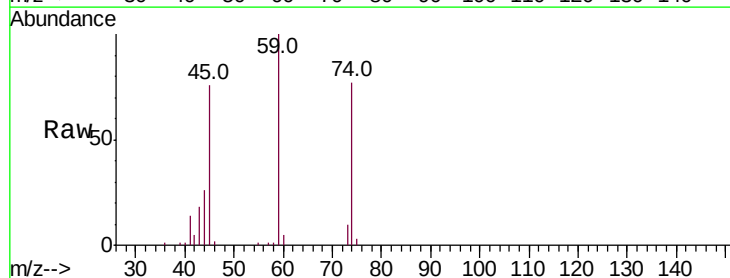
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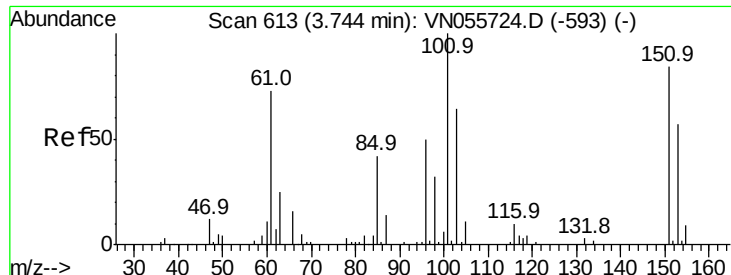


#8

Diethyl Ether
Concen: 20.861 ug/l
RT: 3.40 min Scan# 507
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion: 74 Resp: 37705
Ion Ratio Lower Upper
74 100
45 95.7 20.4 184.0





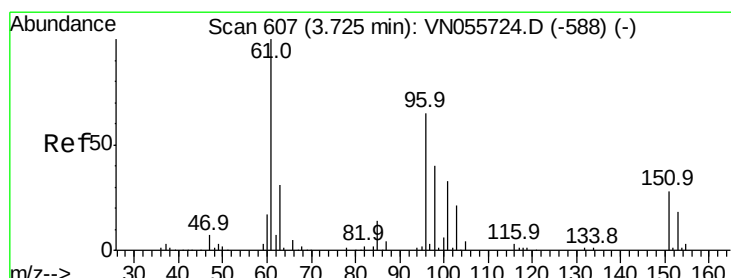
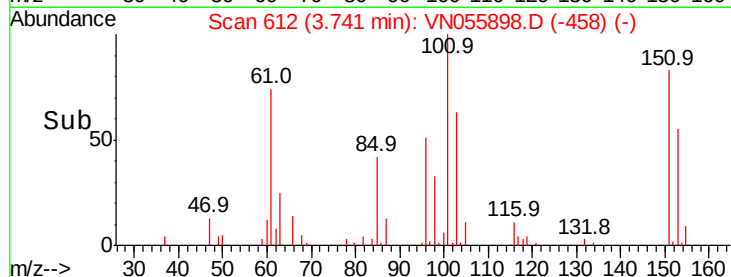
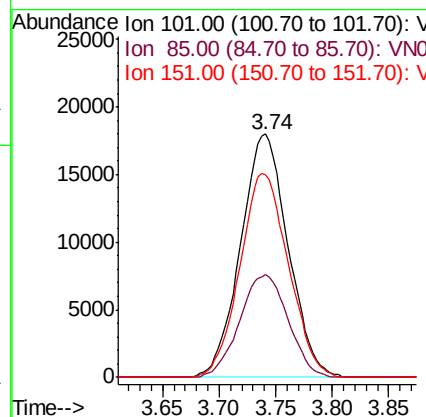
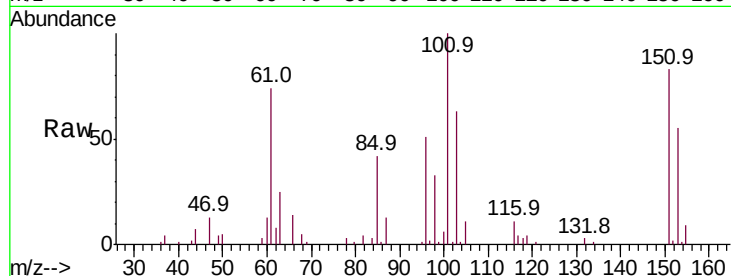
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.219 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN055898.D
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Instrument :
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 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
101	100	52526		
85	43.0		0.0	86.6
151	85.4		0.0	172.2

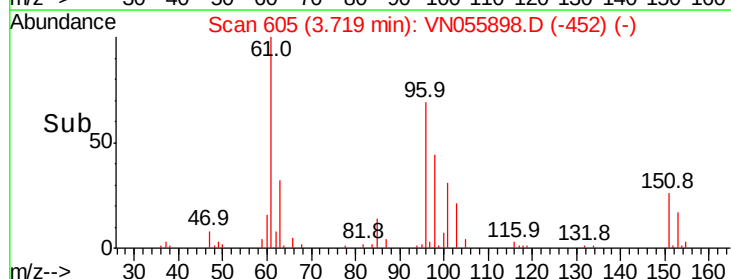
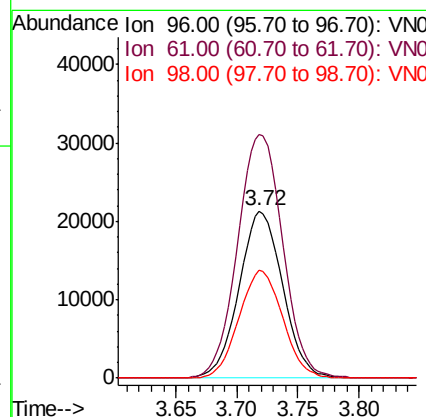
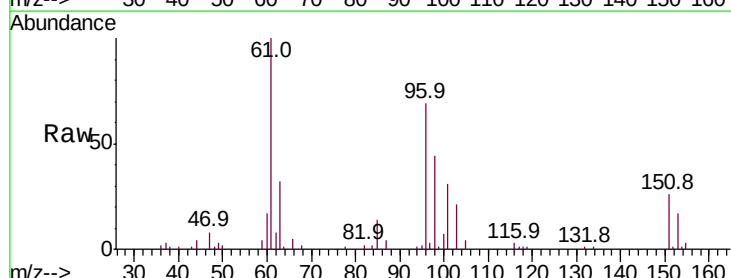
Manual Integrations
 APPROVED

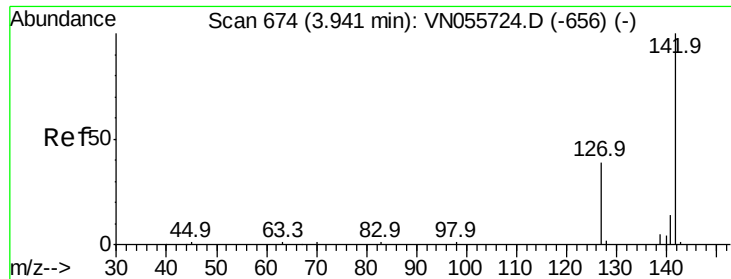
MMDadoda
 5/31/2019 9:38:27 AM



#10
 1,1-Dichloroethene
 Concen: 19.401 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. -0.01 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	52727		
61	144.9		123.7	185.5
98	64.4		50.0	75.0





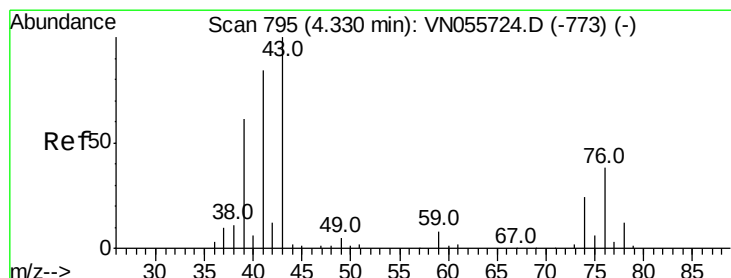
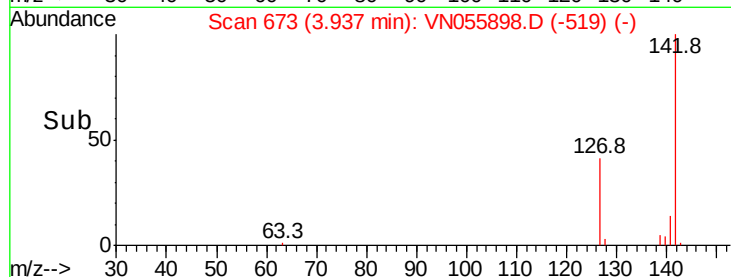
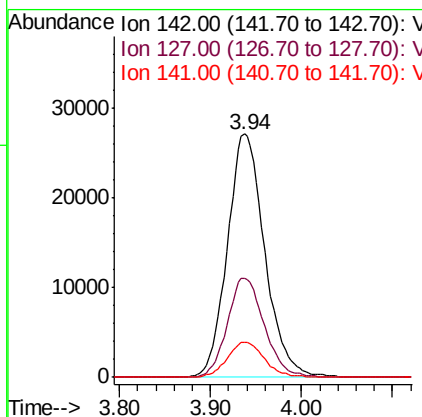
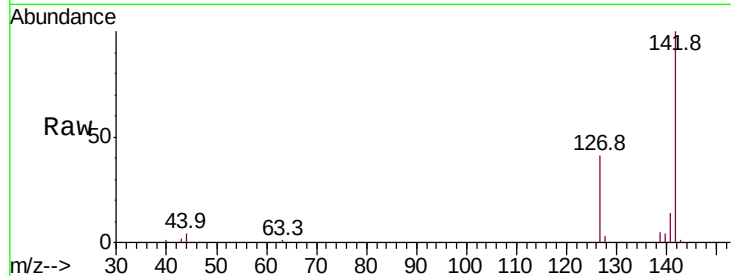
#11
Methvl Iodide
Concen: 19.929 ug/l
RT: 3.94 min Scan# 673
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
142	100		
127	40.7	19.6	58.7
141	14.5	6.9	20.6

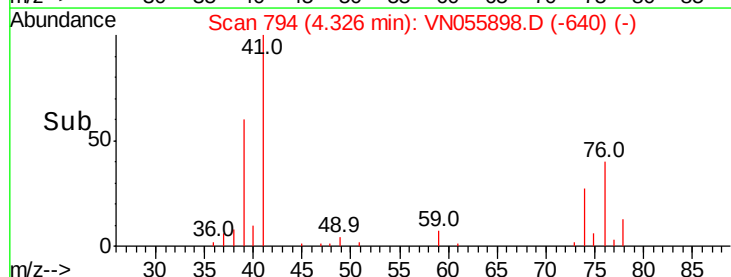
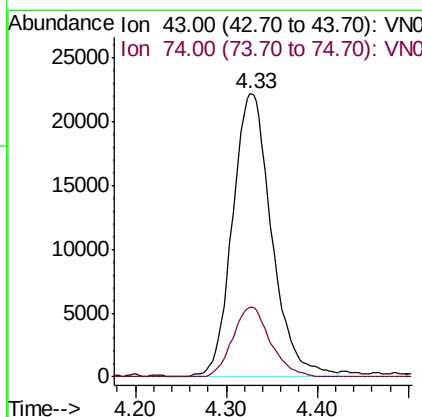
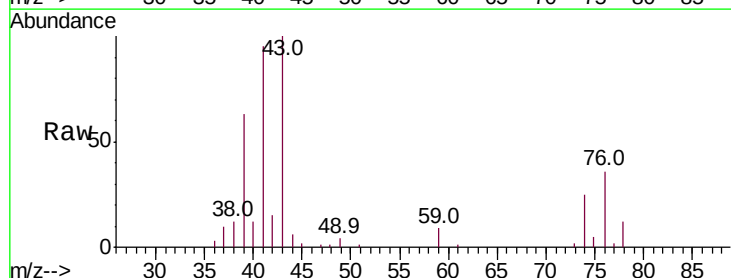
Manual Integrations
APPROVED

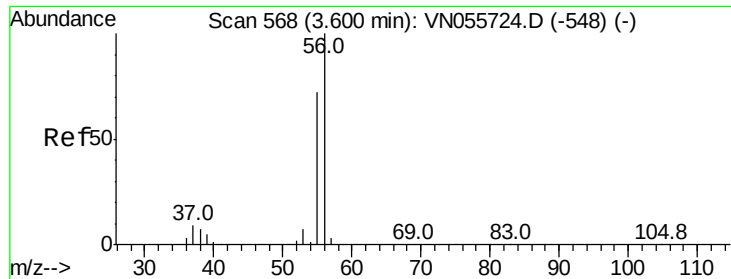
MMDadoda
5/31/2019 9:38:27 AM



#12
Methyl Acetate
Concen: 19.987 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.2	28.8





#13

Acrolein

Concen: 92.251 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 56 Resp: 42605

Ion Ratio Lower Upper

56 100

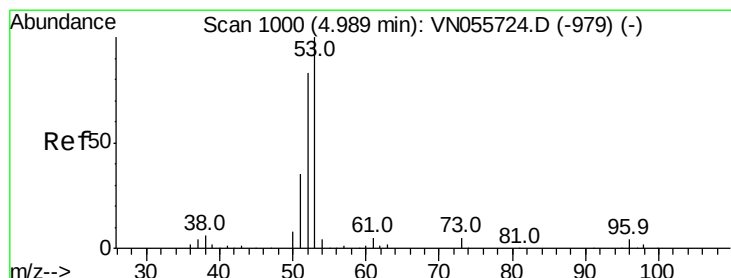
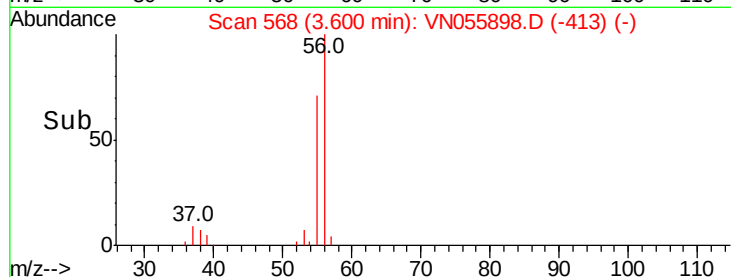
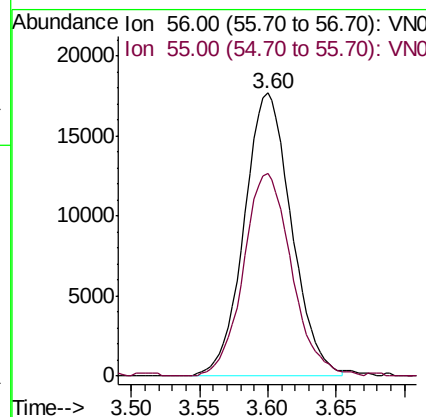
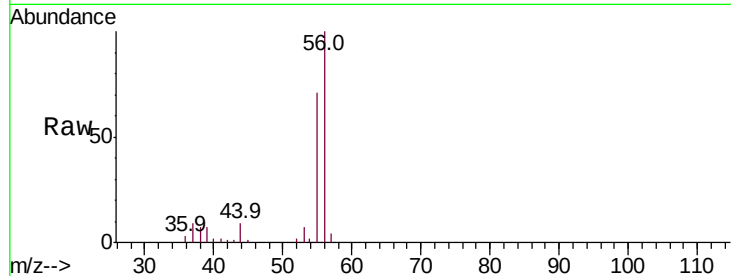
55 72.4 57.0 85.6

Manual Integrations

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MMDadoda

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#14

Acrylonitrile

Concen: 98.454 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

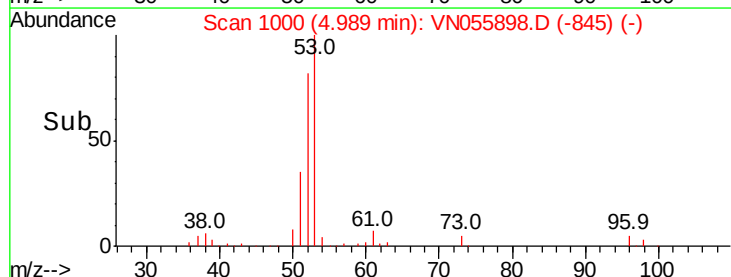
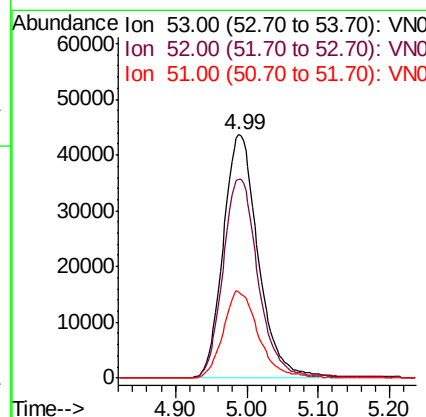
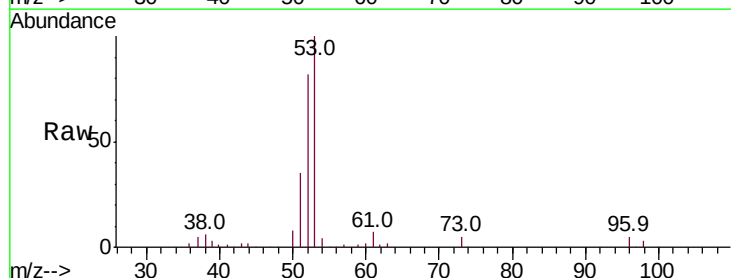
Tgt Ion: 53 Resp: 149194

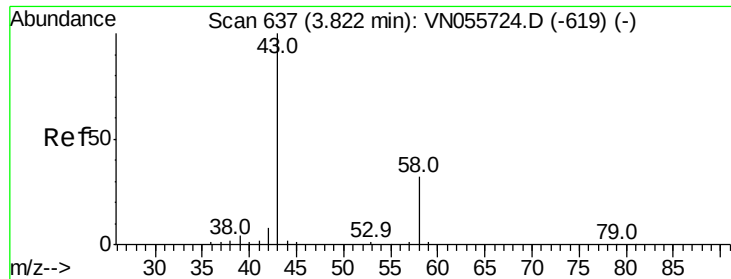
Ion Ratio Lower Upper

53 100

52 81.4 41.1 123.4

51 35.8 17.5 52.6





#15

Acetone

Concen: 109.788 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 58 Resp: 51669

Ion Ratio Lower Upper

58 100

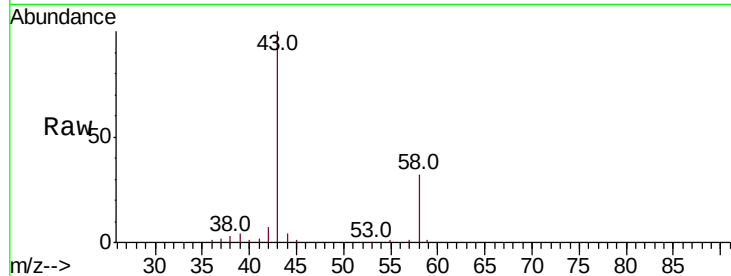
43 308.7 248.8 373.2

Manual Integrations

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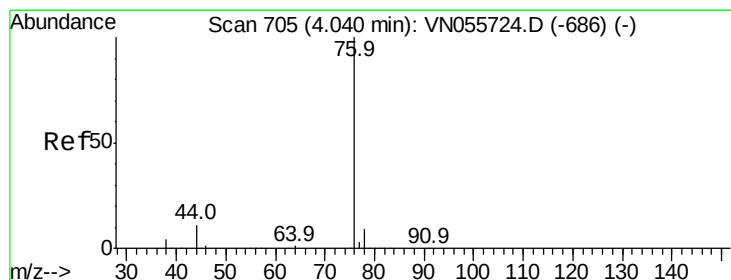
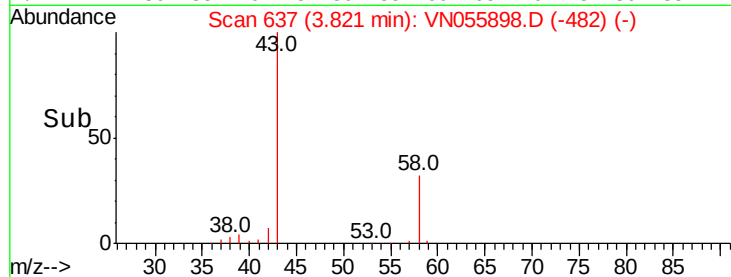
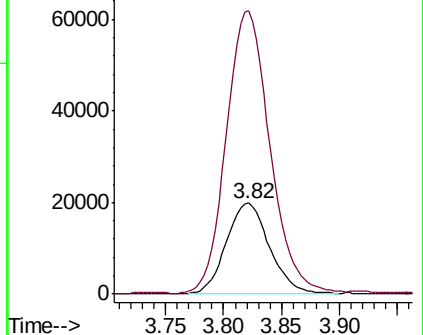
MMDadoda

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Abundance Ion 58.00 (57.70 to 58.70): VN055898.D (-550) (-)

Ion 43.00 (42.70 to 43.70): VN055898.D (-550) (-)



#16

Carbon Disulfide

Concen: 16.544 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.01 min

Lab File: VN055898.D

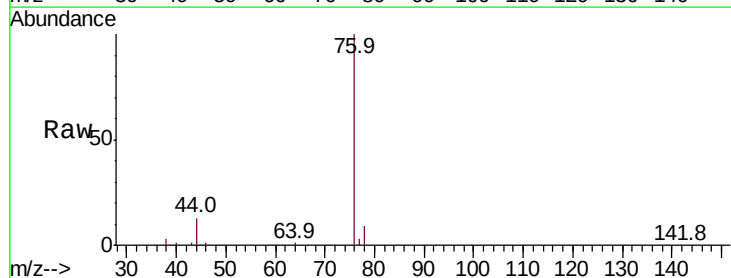
Acq: 30 May 2019 14:13

Tgt Ion: 76 Resp: 128914

Ion Ratio Lower Upper

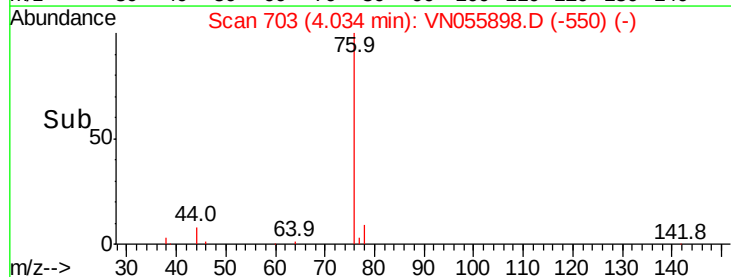
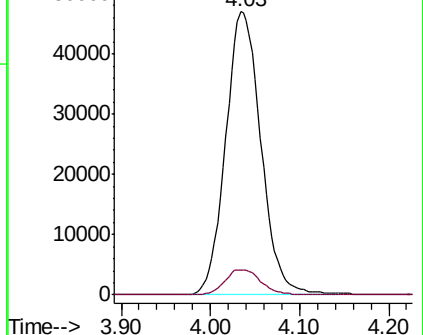
76 100

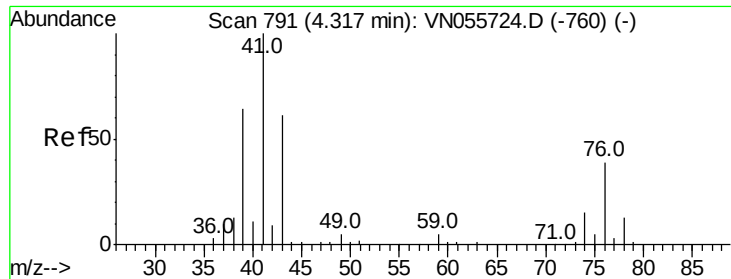
78 8.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN055898.D (-550) (-)

Ion 78.00 (77.70 to 78.70): VN055898.D (-550) (-)





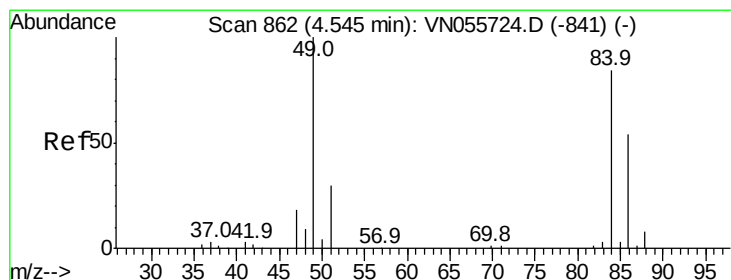
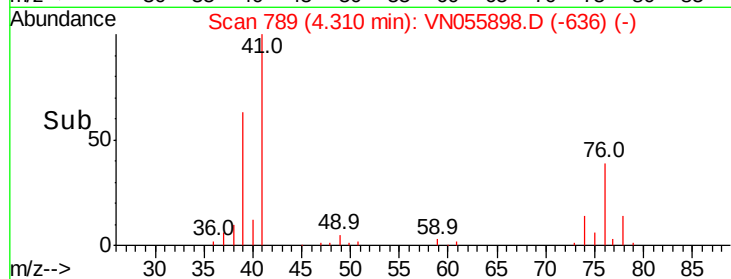
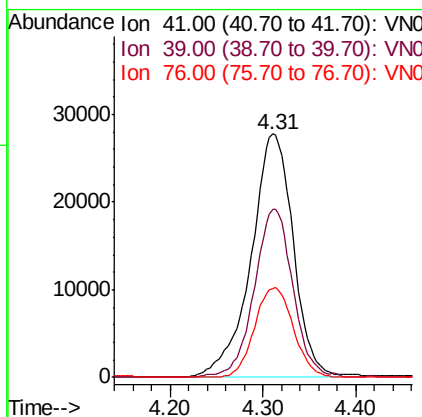
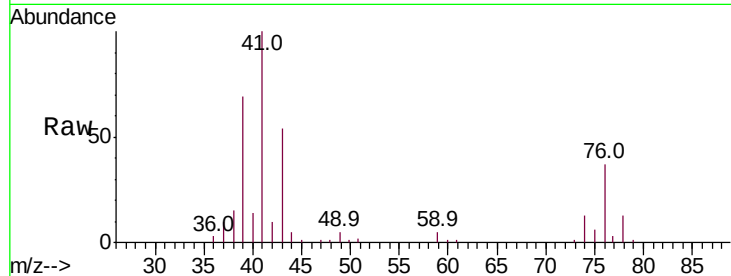
#17
Allvl chloride
Concen: 17.981 ug/l
RT: 4.31 min Scan# 789
Delta R.T. -0.01 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	68.8	31.8	95.3
76	36.7	19.3	57.9

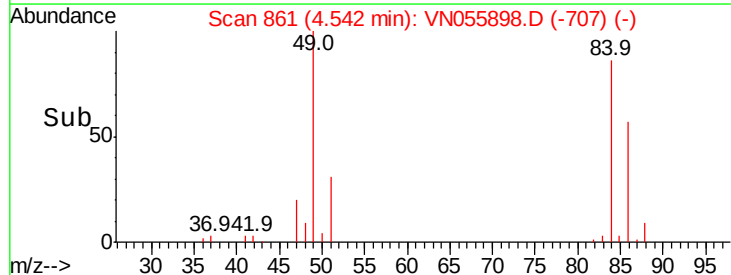
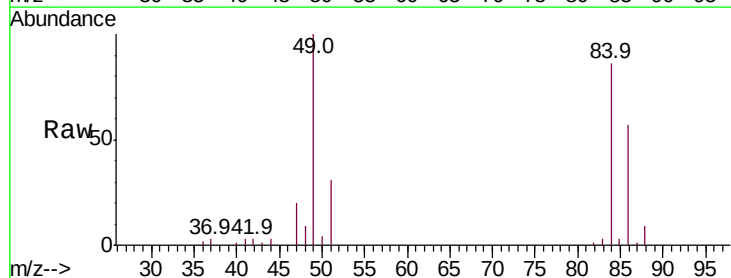
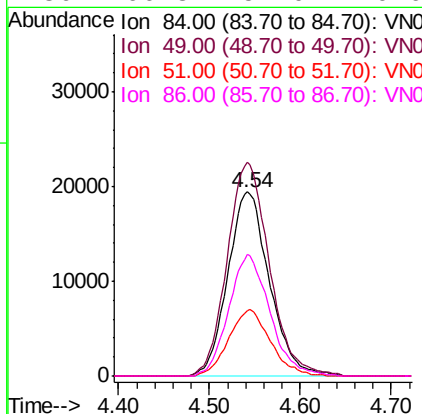
Manual Integrations
APPROVED

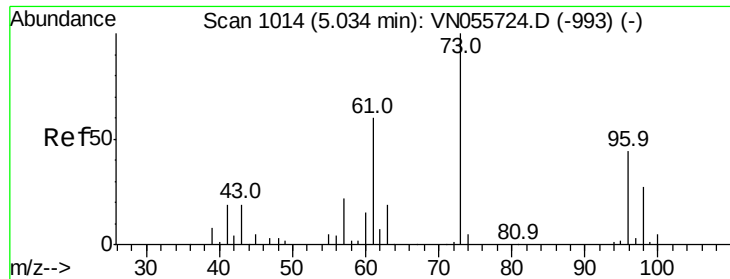
MMDadoda
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#18
Methylene Chloride
Concen: 19.854 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
84	100		
49	116.2	94.7	142.1
51	35.5	28.6	43.0
86	66.3	51.0	76.6





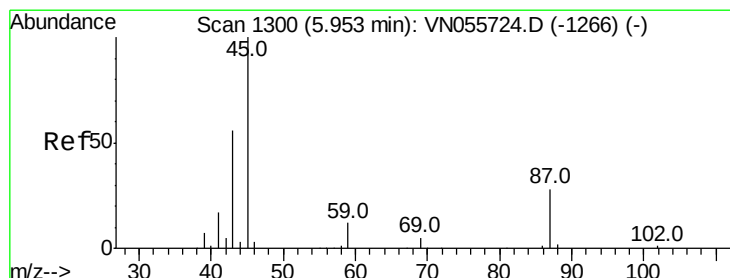
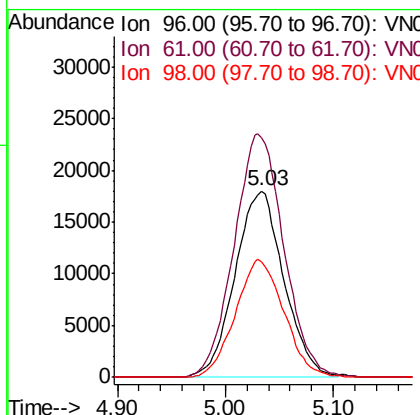
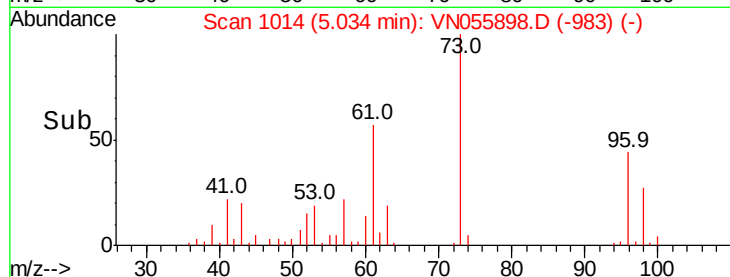
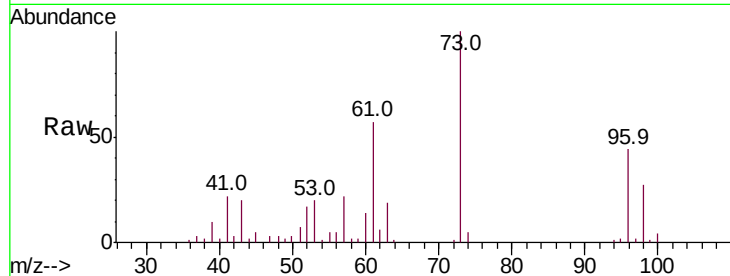
#19
trans-1,2-Dichloroethene
Concen: 19.370 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	127.2	108.5	162.7
98	62.0	49.4	74.2

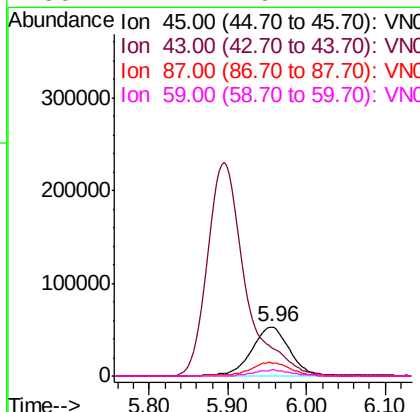
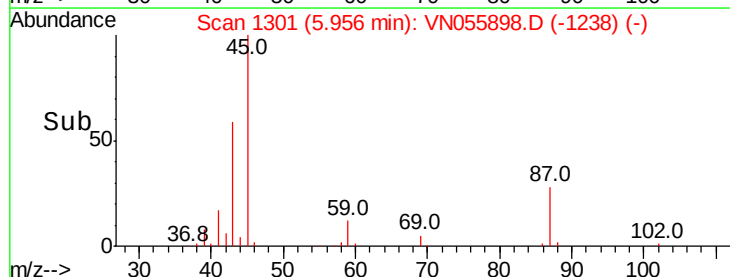
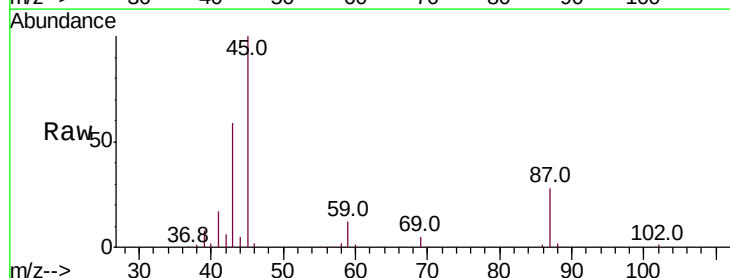
Manual Integrations
APPROVED

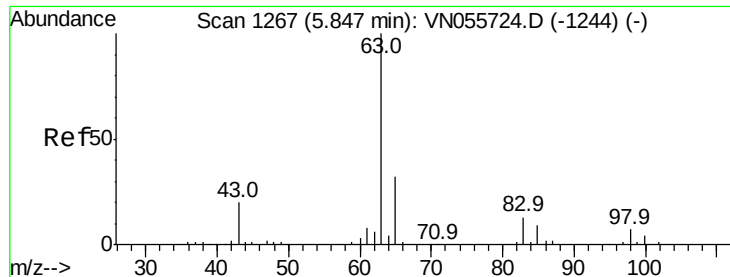
MMDadoda
5/31/2019 9:38:27 AM



#20
Diisopropyl ether
Concen: 18.990 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.0	48.6	73.0
87	27.1	22.6	34.0
59	12.1	9.4	14.2





#21

1,1-Dichloroethane

Concen: 19.377 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

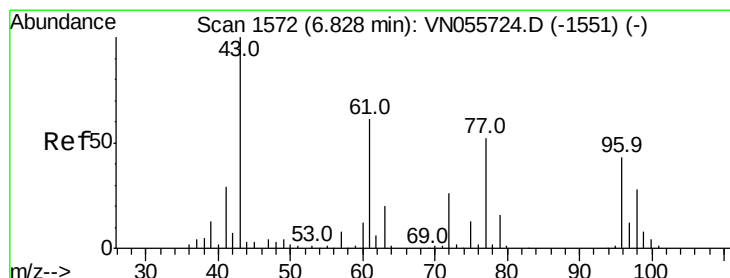
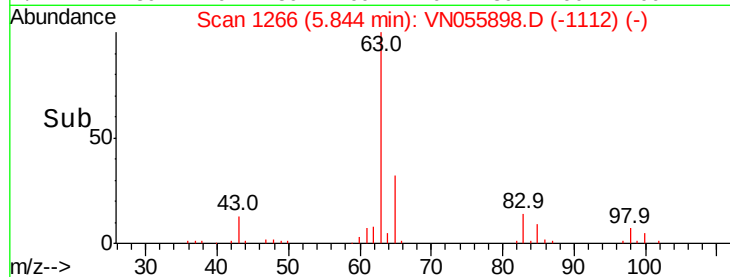
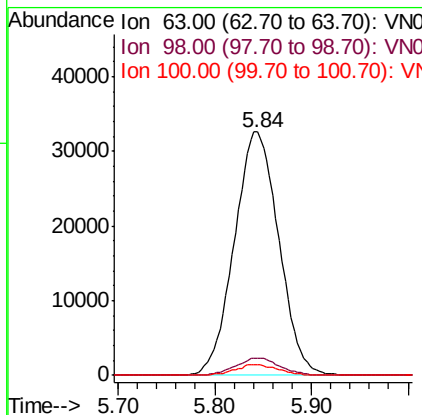
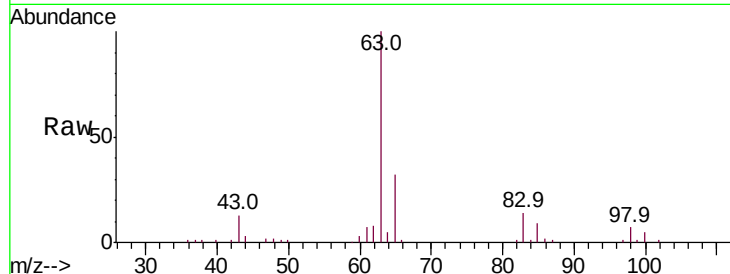
ClientSampleId :

VSTDCCC020

Tot Ion:	63	Resp:	103984
Ion Ratio	Lower	Upper	
63	100		
98	7.0	3.4	10.2
100	4.6	2.2	6.6

Manual Integrations
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#22

cis-1,2-Dichloroethene

Concen: 19.731 ug/l

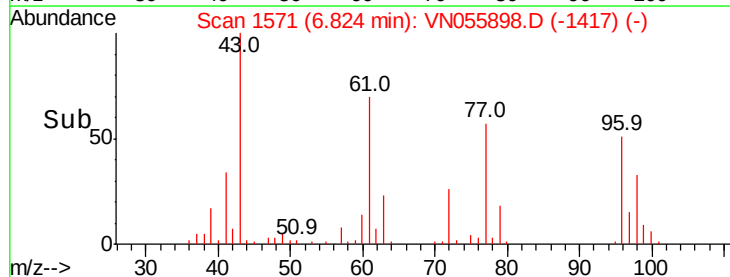
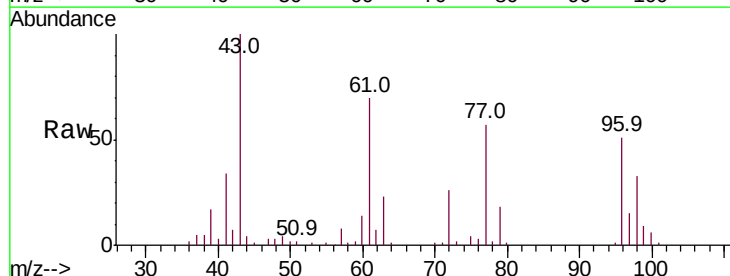
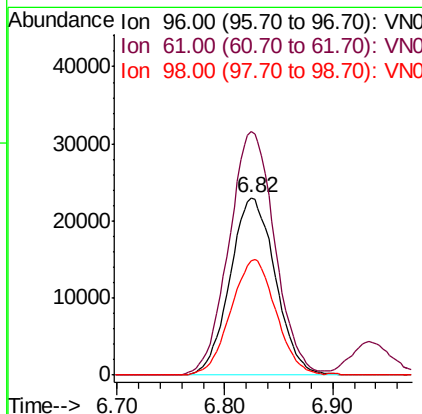
RT: 6.82 min Scan# 1571

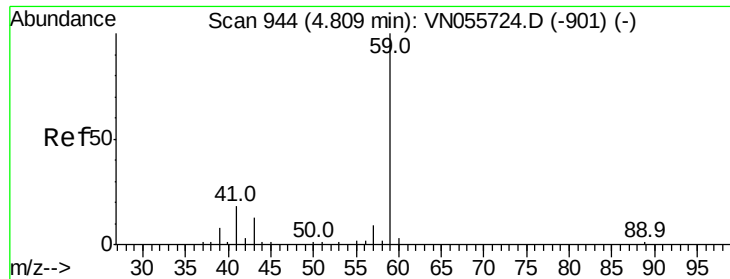
Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Tgt Ion:	96	Resp:	67276
Ion Ratio	Lower	Upper	
96	100		
61	139.0	115.7	173.5
98	64.9	51.5	77.3





#23

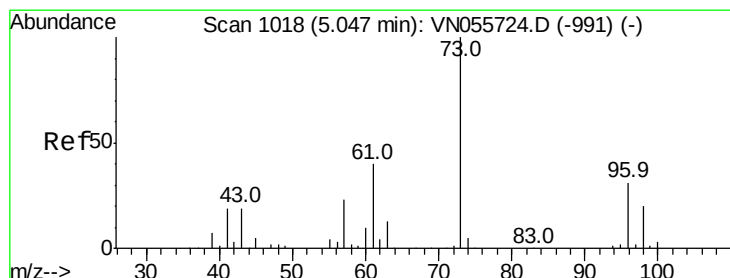
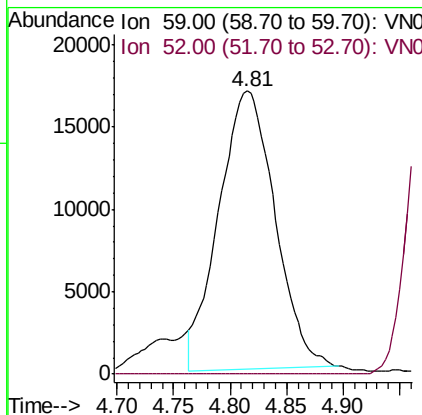
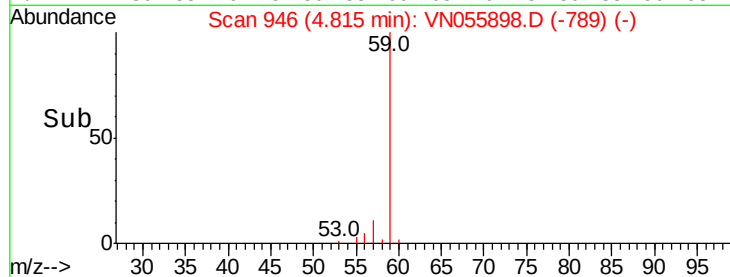
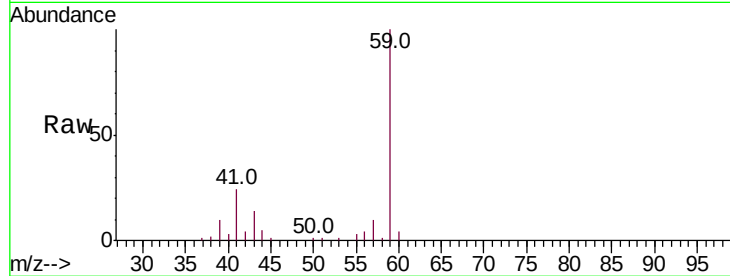
tert-Butyl Alcohol
 Concen: 87.927 ug/l
 RT: 4.81 min Scan# 946
 Delta R.T. 0.01 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	59	Ratio	Lower	Upper
59	100			
52	0.0	0.0	0.0	0.0

Manual Integrations
 APPROVED

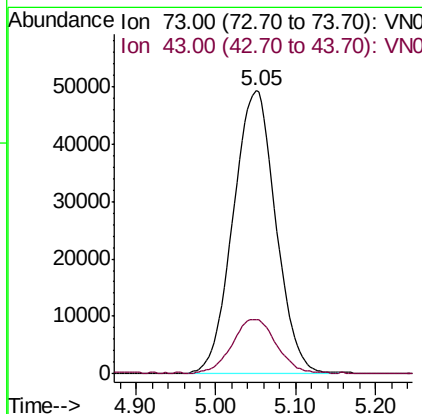
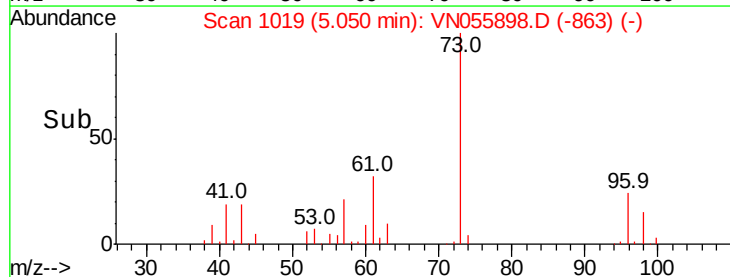
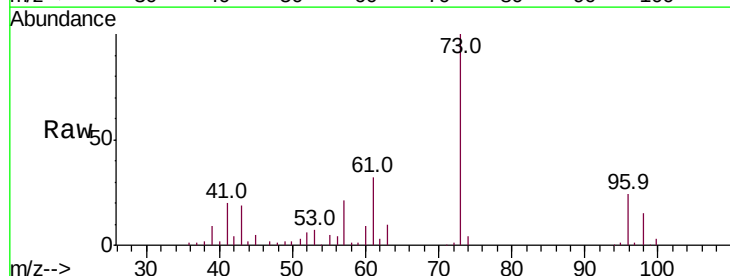
MMDadoda
 5/31/2019 9:38:27 AM

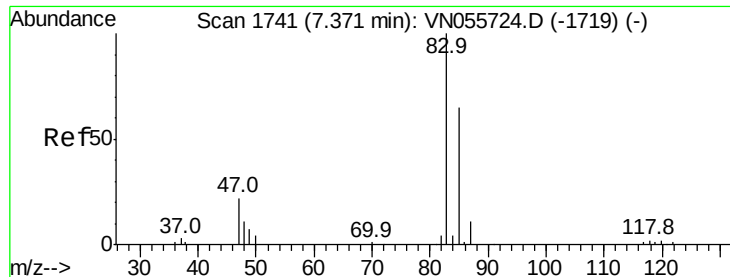


#24

Methyl tert-Butyl Ether
 Concen: 19.378 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	73	Ratio	Lower	Upper
73	100			
43	20.3	15.7	23.5	





#25

Chloroform

Concen: 19.633 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 83 Resp: 104060

Ion Ratio Lower Upper

83 100

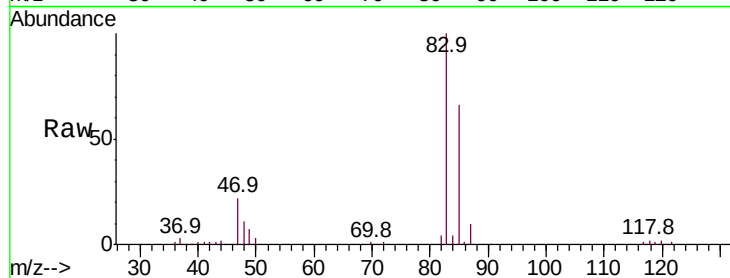
85 66.4 51.7 77.5

Manual Integrations

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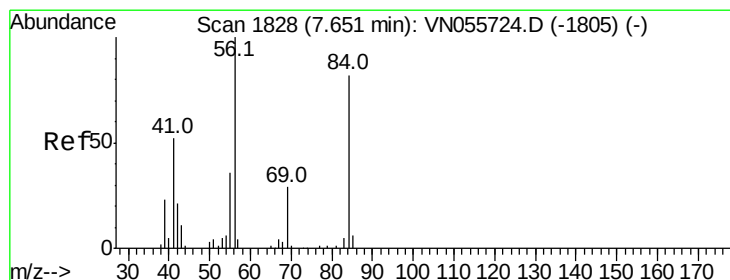
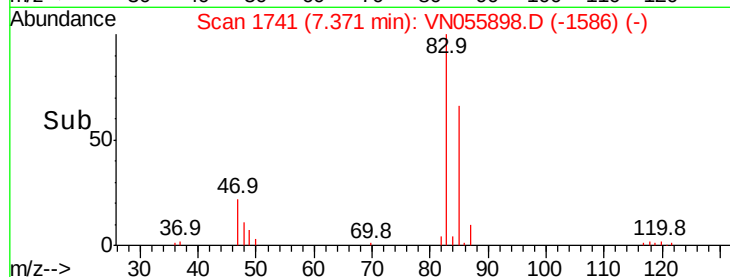
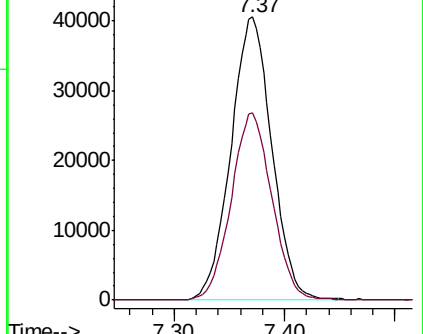
MMDadoda

5/31/2019 9:38:27 AM



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#26

Cyclohexane

Concen: 18.995 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

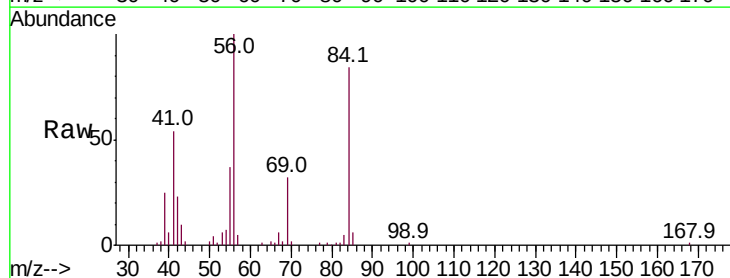
Tgt Ion: 56 Resp: 94041

Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

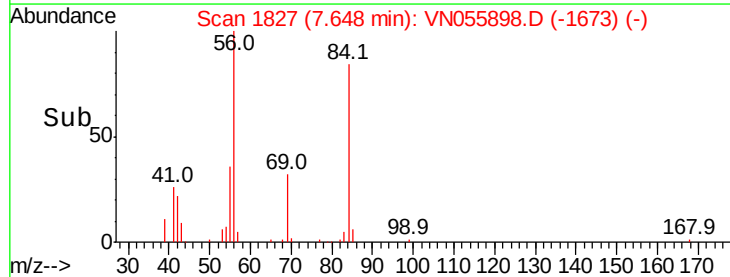
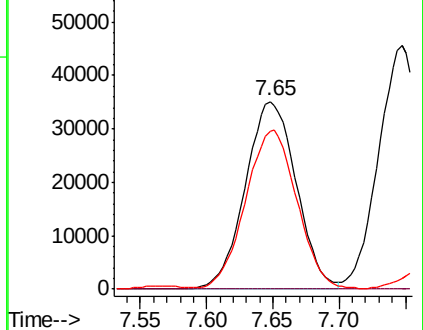
84 85.7 67.2 100.8

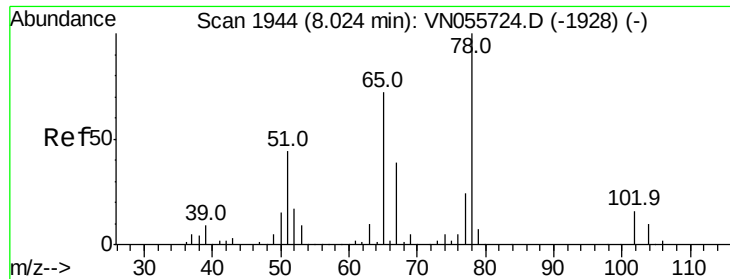


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





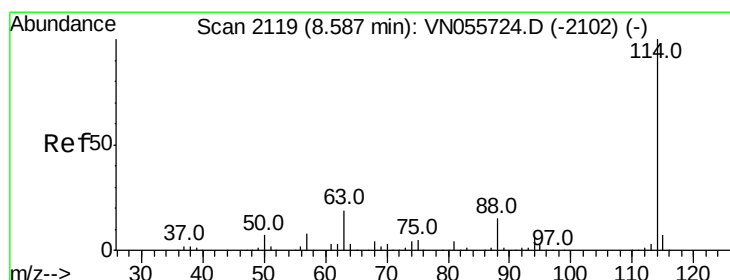
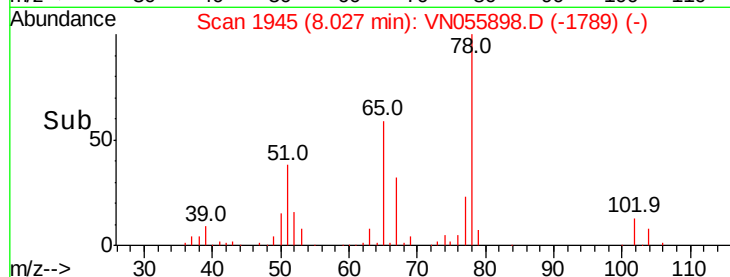
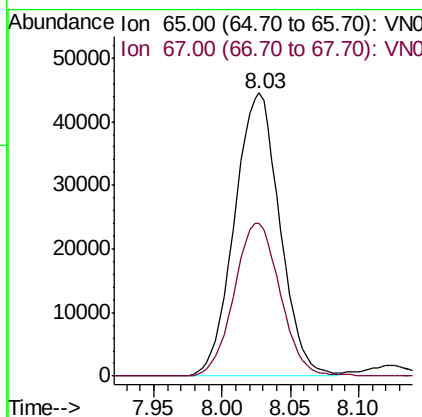
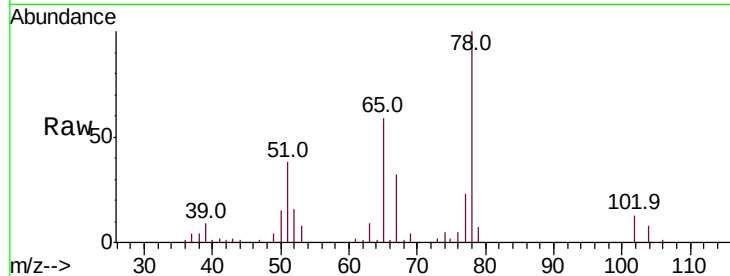
#27
 1,2-Dichloroethane-d4
 Concen: 30.474 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.0	43.5	65.3

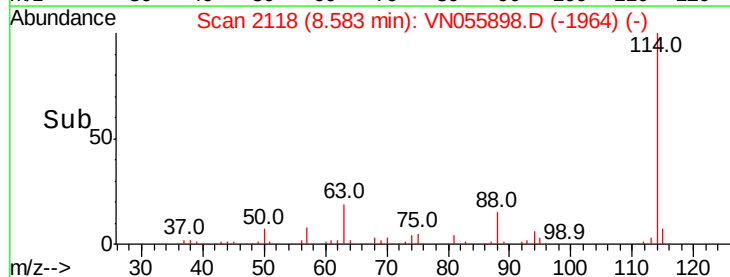
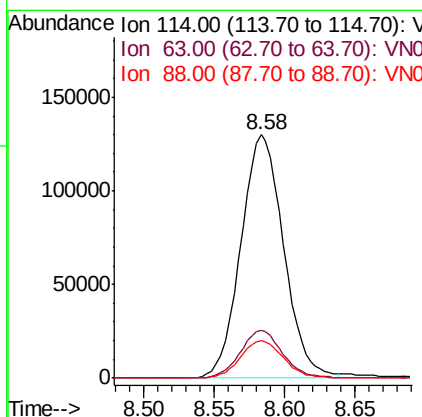
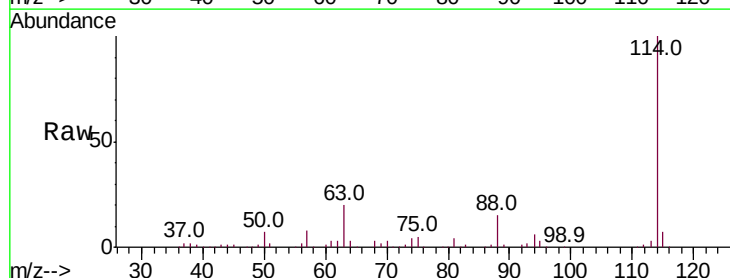
Manual Integrations
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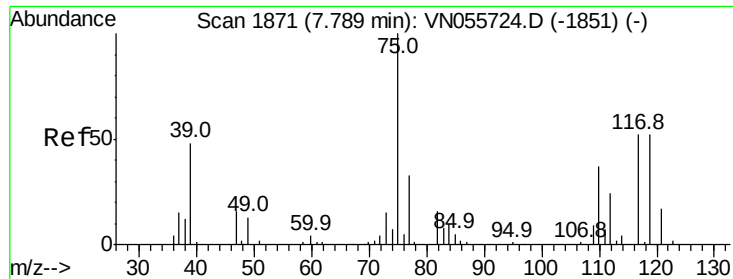
MMDadoda
 5/31/2019 9:38:27 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.3	15.6	23.4
88	15.5	12.3	18.5





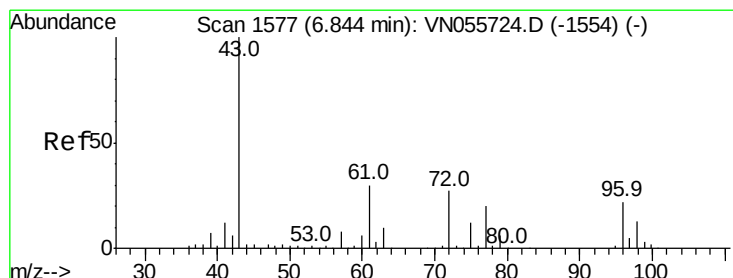
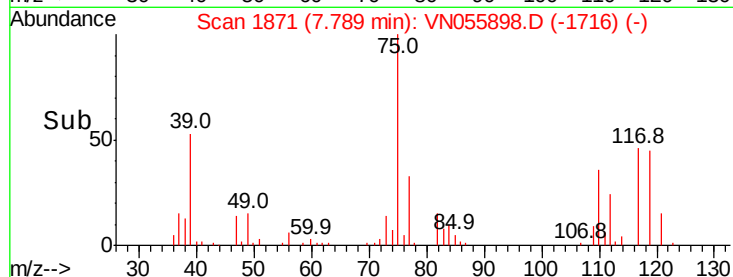
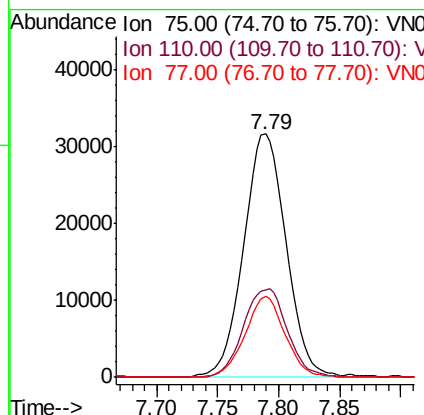
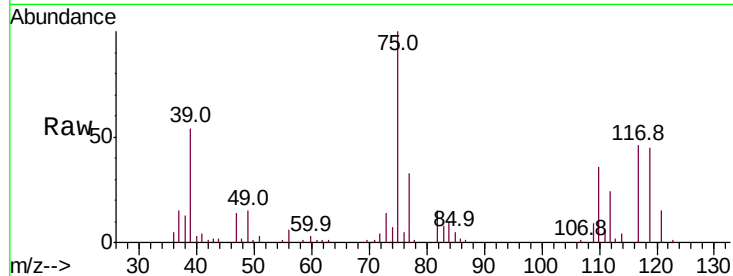
#29
 1,1-Dichloropropene
 Concen: 19.775 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
110	37.4	0.0	74.8
77	31.3	0.0	65.2

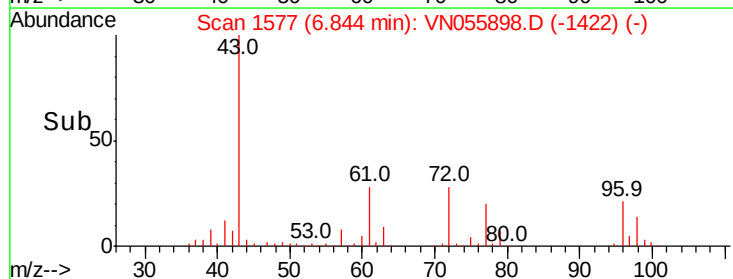
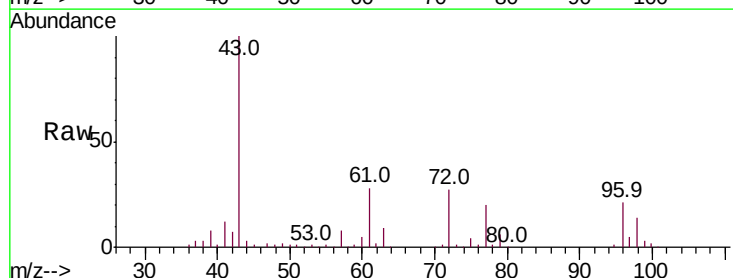
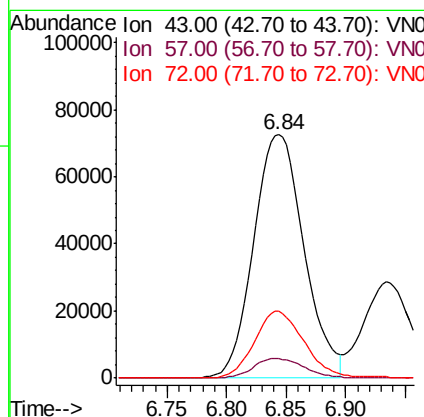
Manual Integrations
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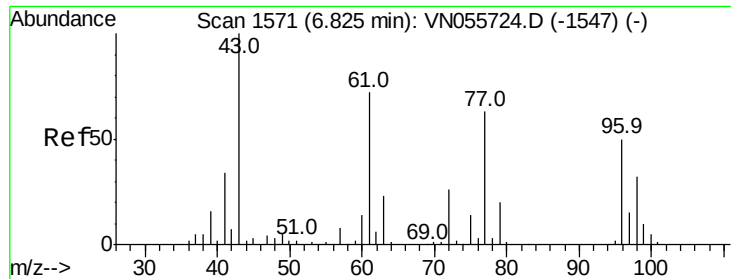
MMDadoda
 5/31/2019 9:38:27 AM



#30
 2-Butanone
 Concen: 102.990 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.2	6.6	10.0
72	27.6	21.7	32.5





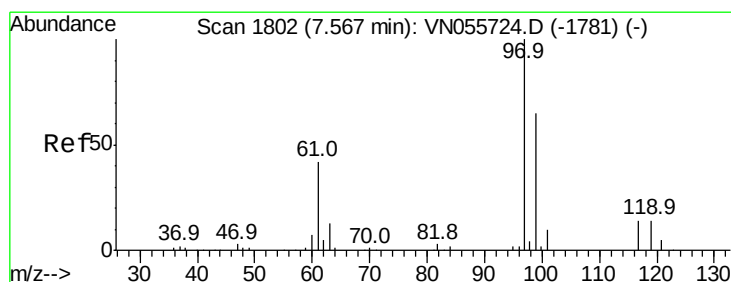
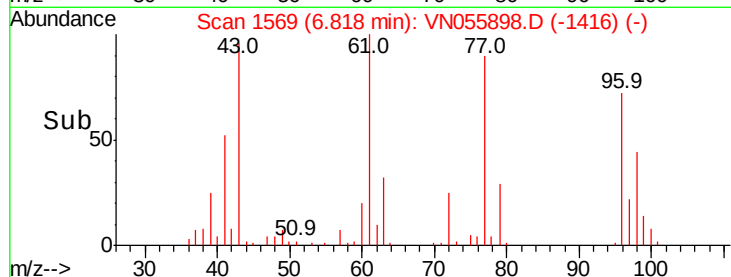
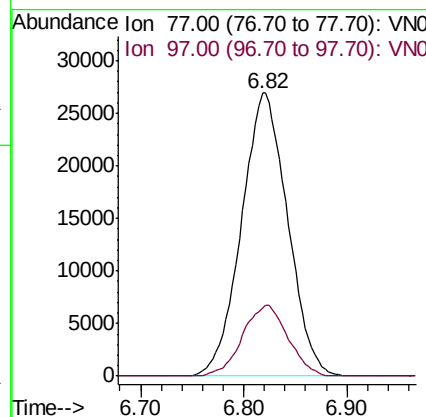
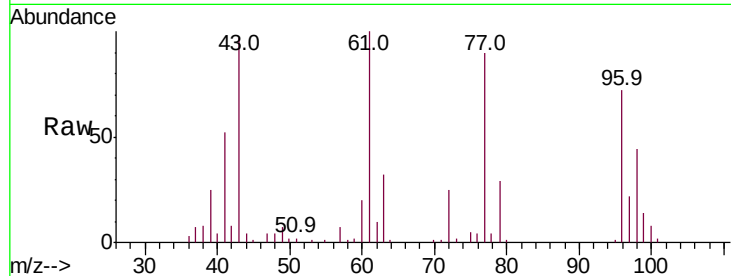
#31
 2,2-Dichloropropane
 Concen: 18.642 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. -0.01 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion: 77 Resp: 83741
 Ion Ratio Lower Upper
 77 100
 97 24.6 19.2 28.8

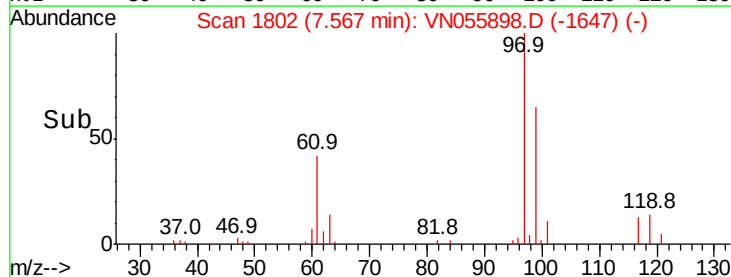
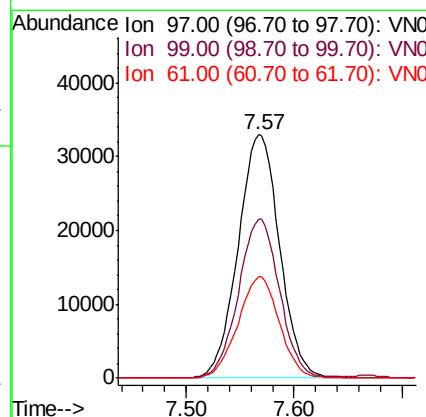
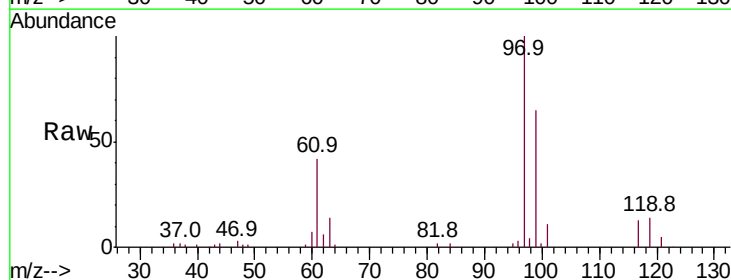
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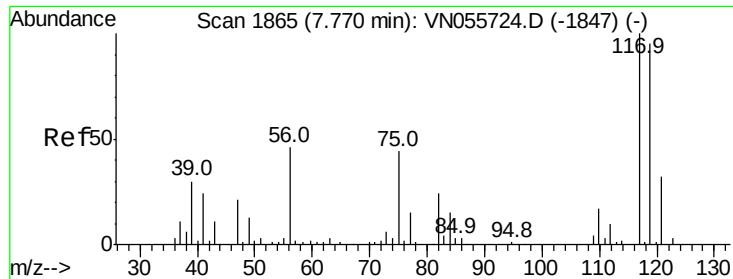
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 19.272 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion: 97 Resp: 88176
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.7 77.5
 61 41.5 33.1 49.7





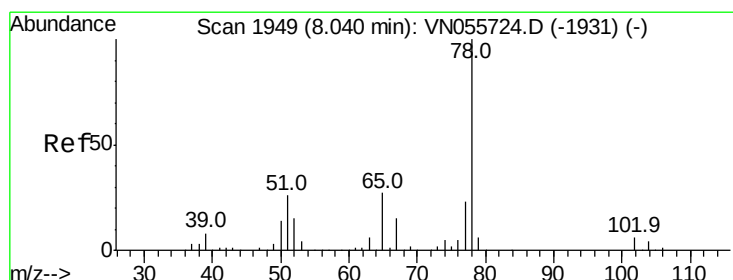
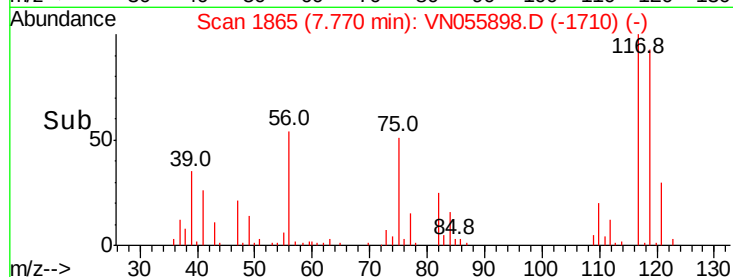
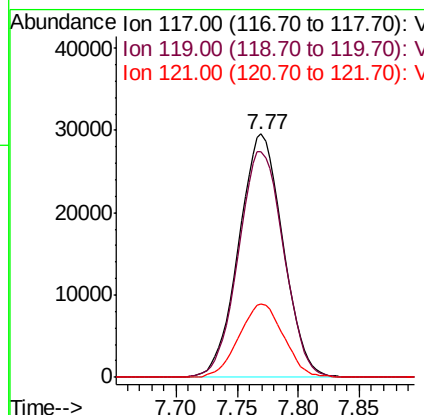
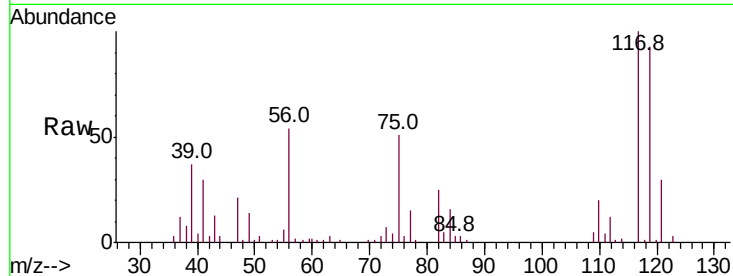
#33
Carbon Tetrachloride
Concen: 18.124 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.9	75.8	113.8
121	30.3	25.4	38.0

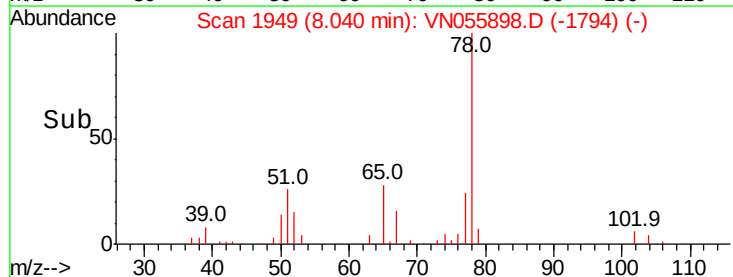
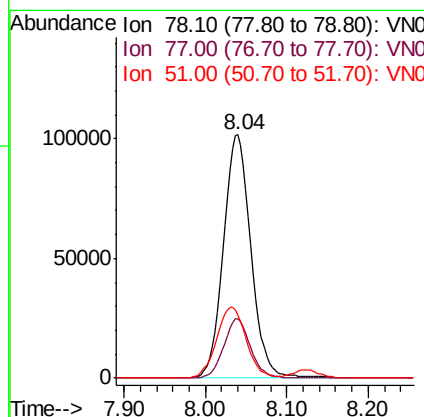
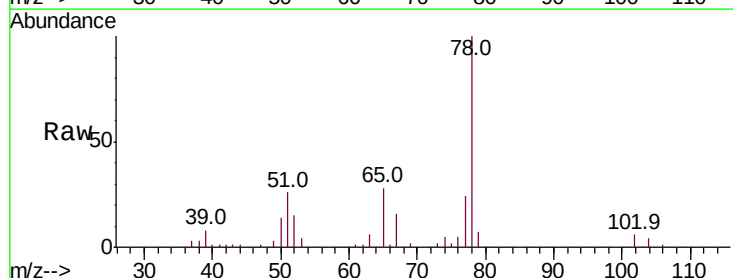
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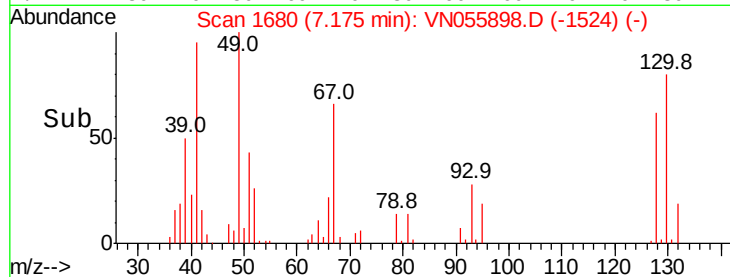
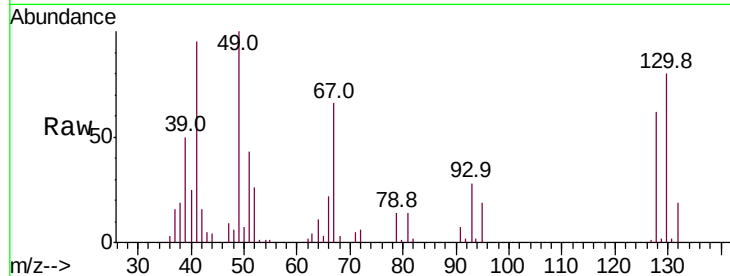
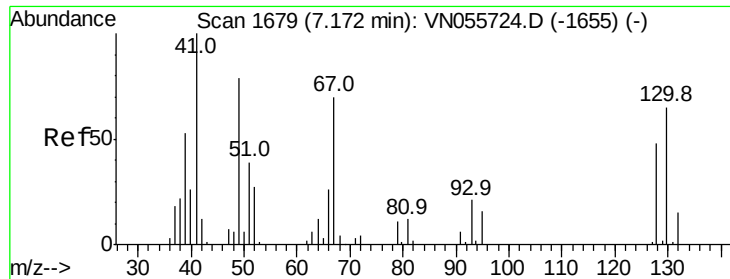
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5/31/2019 9:38:27 AM



#34
Benzene
Concen: 20.362 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.8	28.2
51	25.6	20.6	31.0





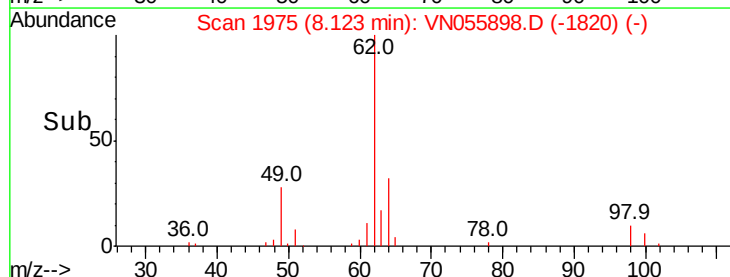
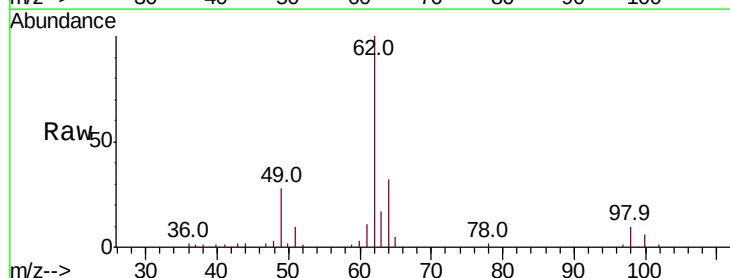
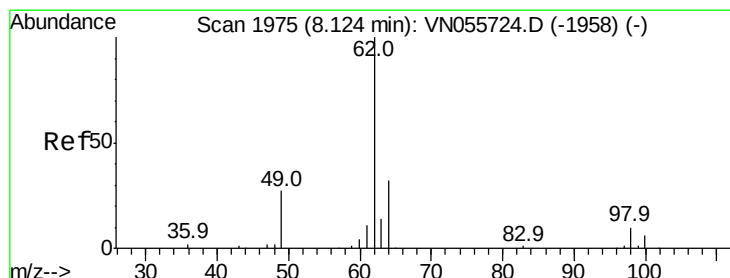
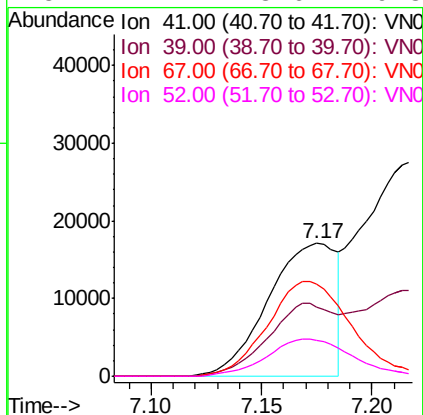
#35
Methacrylonitrile
Concen: 19.407 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tot Ion: 41 Resp: 36854
Ion Ratio Lower Upper
41 100
39 52.5 26.7 80.1
67 69.0 34.9 104.7
52 27.2 13.6 40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

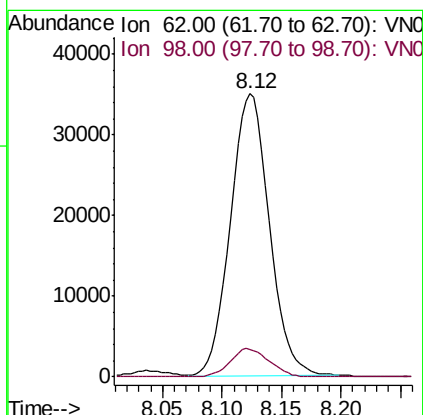
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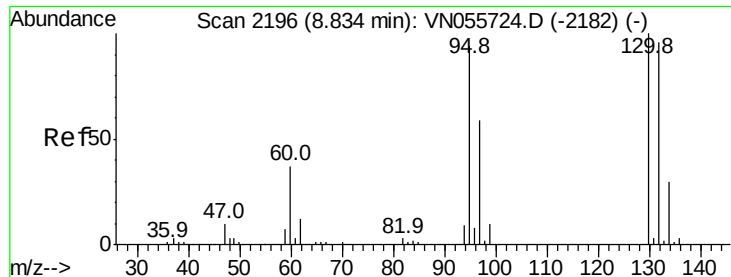
MMDadoda
5/31/2019 9:38:27 AM



#36
1,2-Dichloroethane
Concen: 20.438 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion: 62 Resp: 79598
Ion Ratio Lower Upper
62 100
98 9.9 8.2 12.2





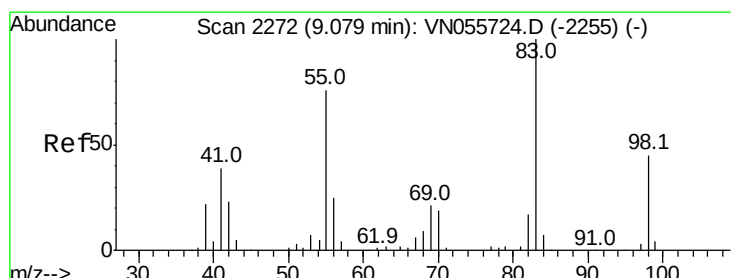
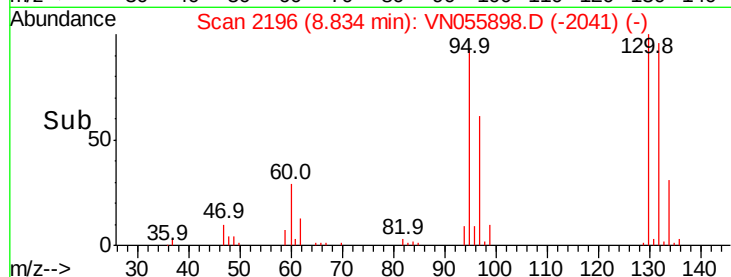
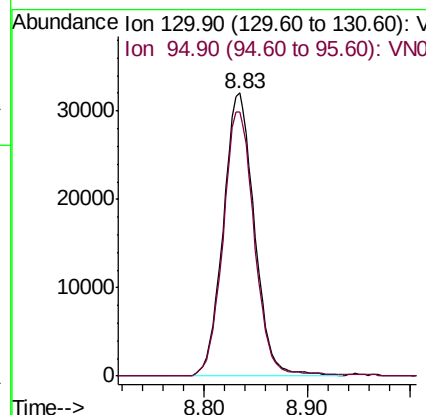
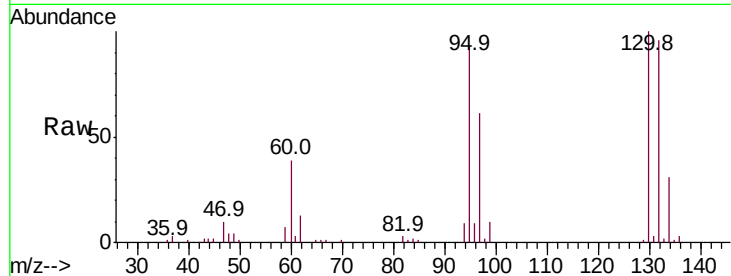
#37
 Trichloroethene
 Concen: 20.263 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion:130 Resp: 67375
 Ion Ratio Lower Upper
 130 100
 95 93.4 75.6 113.4

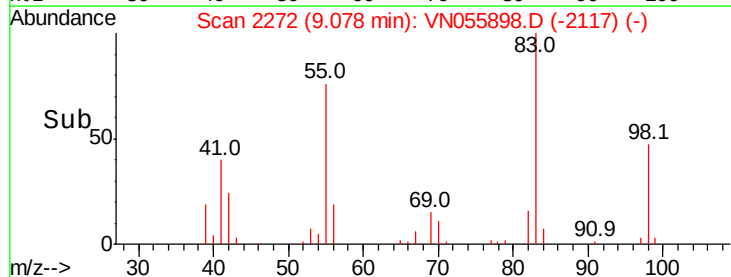
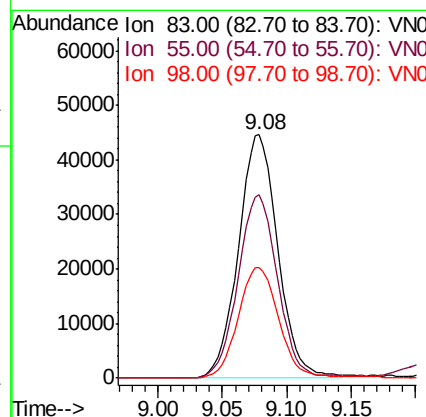
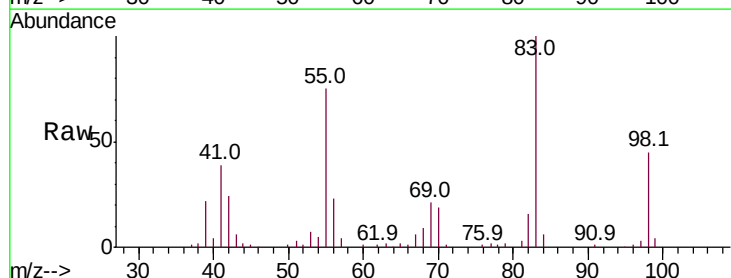
Manual Integrations
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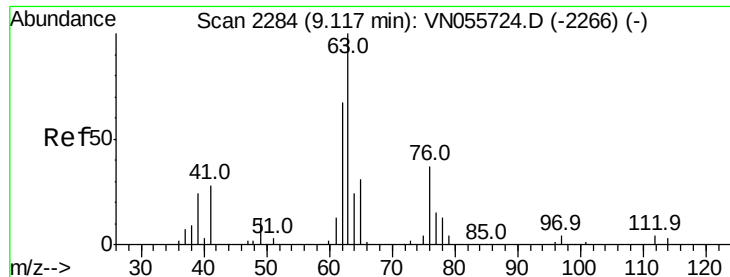
MMDadoda
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#38
 Methylcyclohexane
 Concen: 19.441 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion: 83 Resp: 95080
 Ion Ratio Lower Upper
 83 100
 55 75.4 37.8 113.4
 98 46.3 22.6 67.8





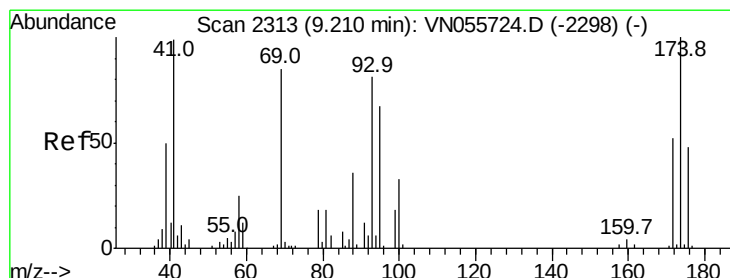
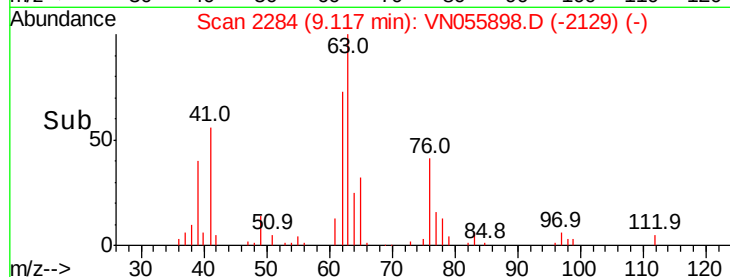
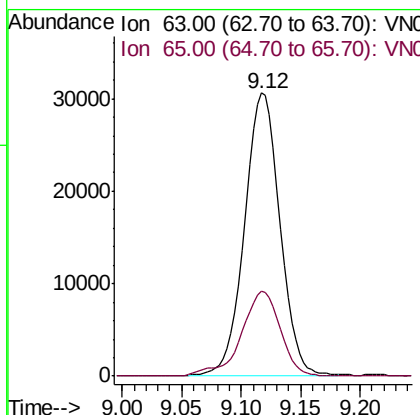
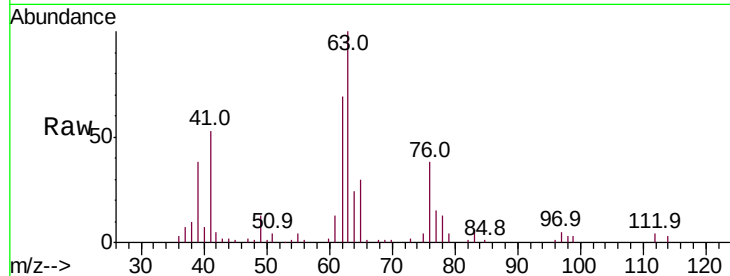
#39
 1,2-Dichloropropane
 Concen: 19.796 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.8	25.8	38.8

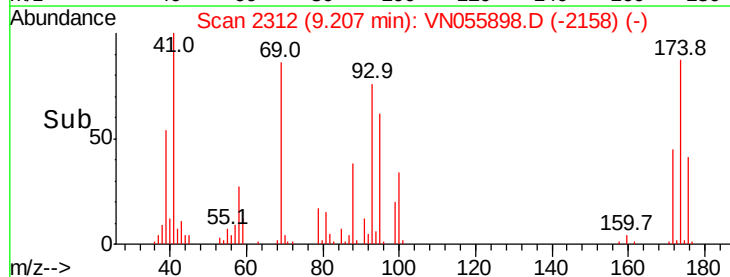
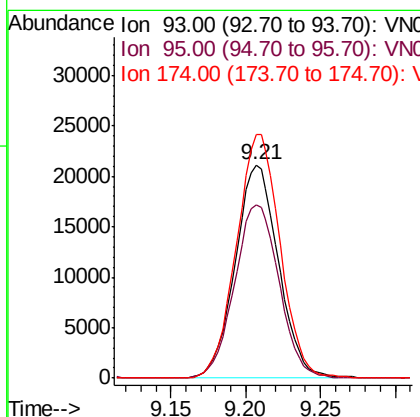
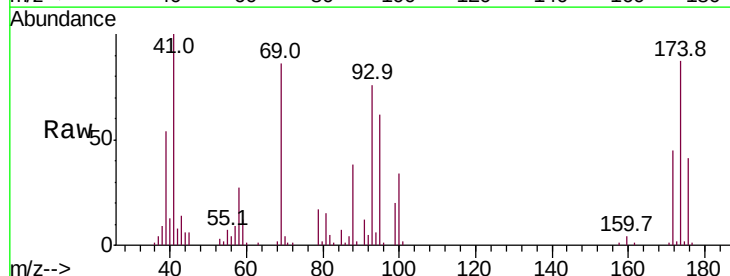
Manual Integrations
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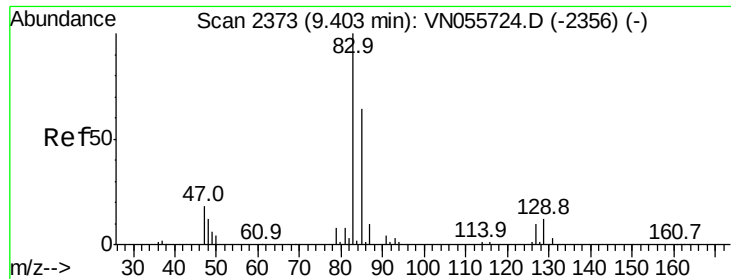
MMDadoda
 5/31/2019 9:38:27 AM



#40
 Dibromomethane
 Concen: 20.561 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.5	0.0	170.6
174	115.3	0.0	248.4





#41

Bromodichloromethane

Concen: 18.321 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

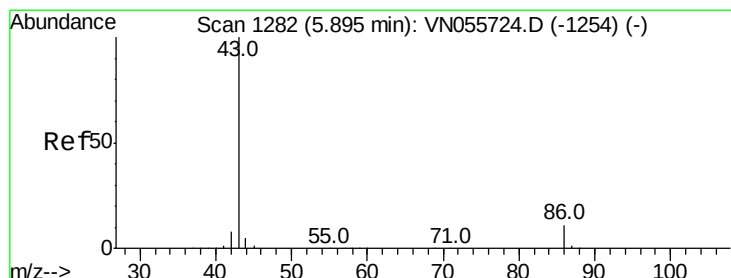
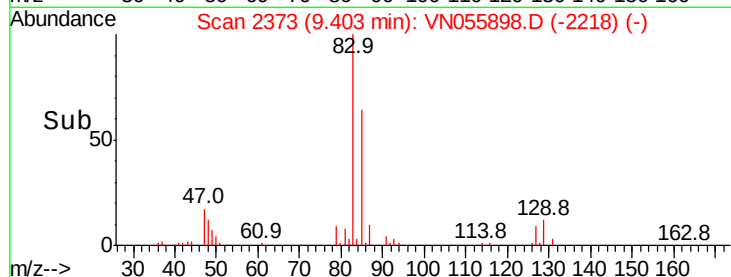
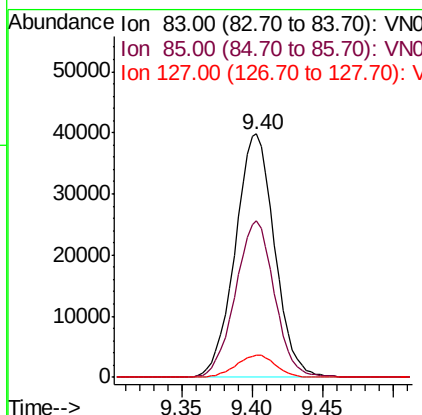
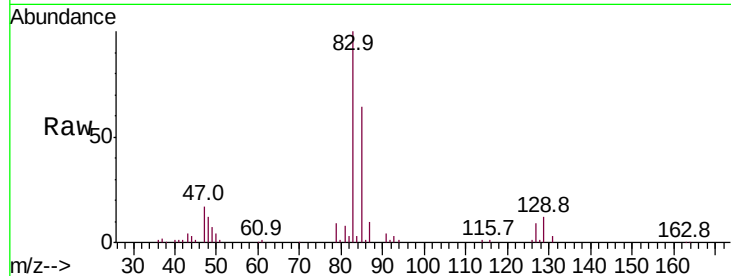
ClientSampleId :

VSTDCCC020

Tot Ion:	83	Resp:	77681
Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.4	77.0
127	9.3	7.7	11.5

Manual Integrations
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5/31/2019 9:38:27 AM



#42

Vinyl Acetate

Concen: 95.556 ug/l

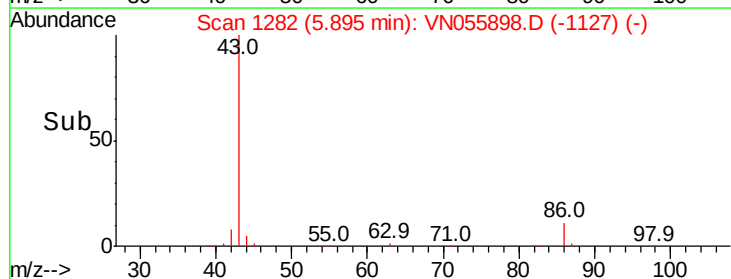
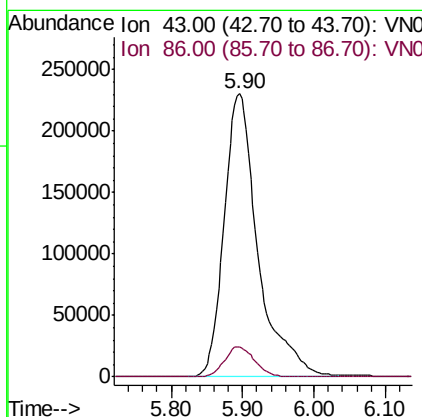
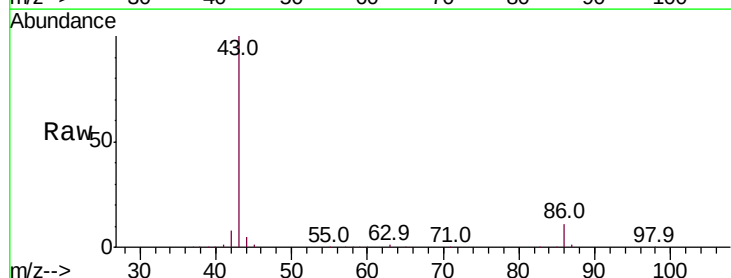
RT: 5.90 min Scan# 1282

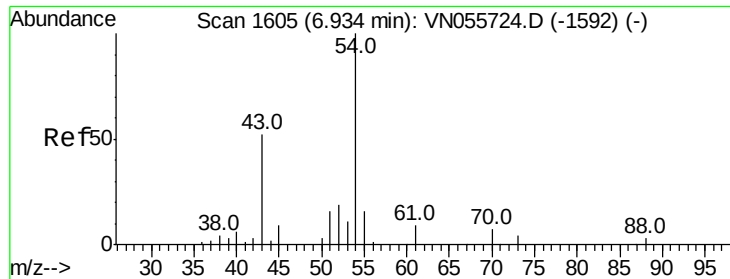
Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Tgt Ion:	43	Resp:	763322
Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.4	11.2





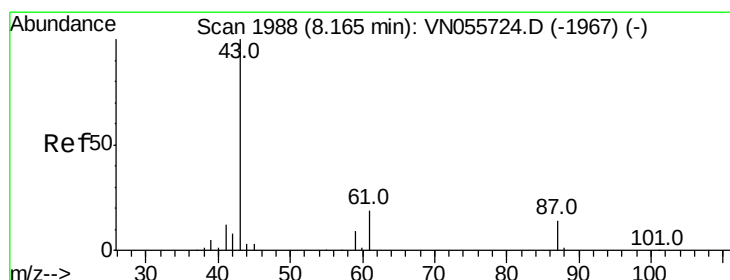
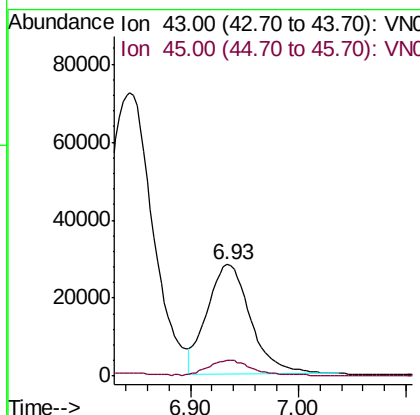
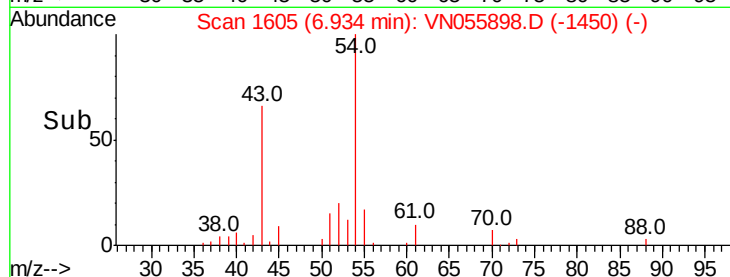
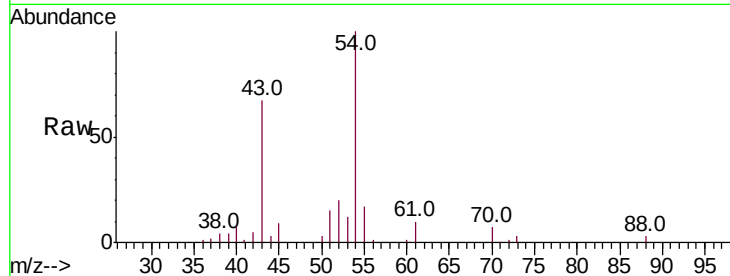
#43
Ethyl Acetate
Concen: 19.696 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 43 Resp: 79653
Ion Ratio Lower Upper
43 100
45 15.2 0.0 0.0#

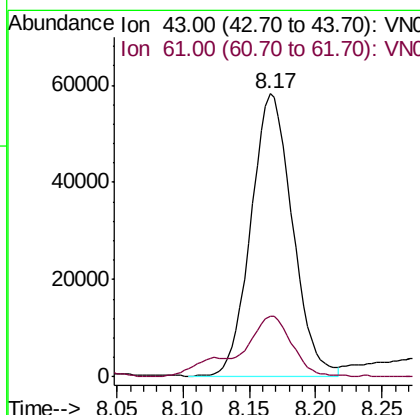
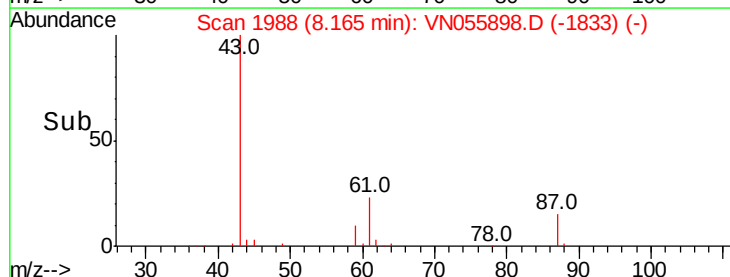
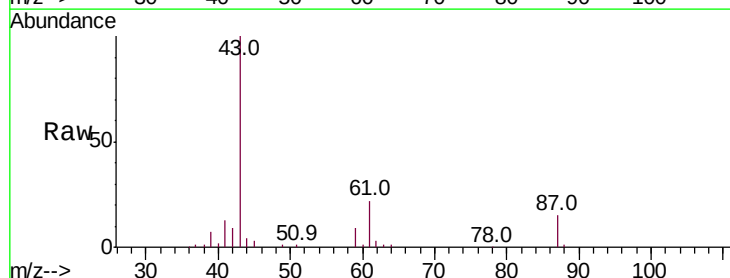
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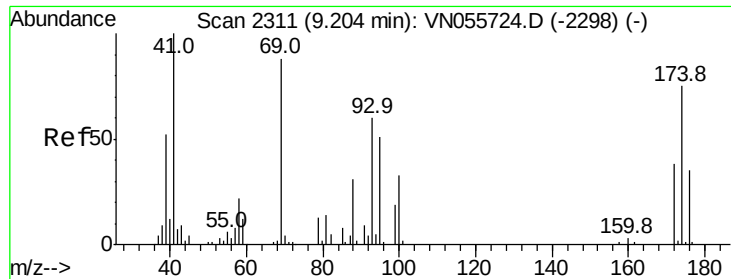
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#44
Isopropyl Acetate
Concen: 18.818 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion: 43 Resp: 126019
Ion Ratio Lower Upper
43 100
61 20.8 22.1 33.1#





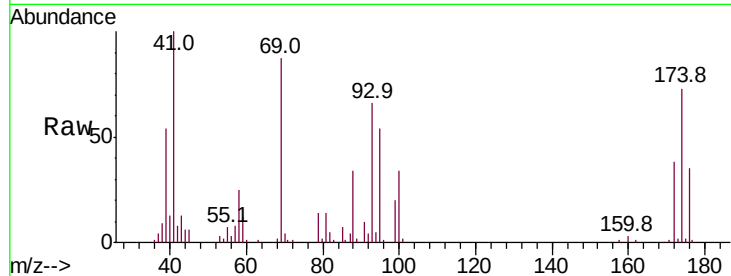
#45
 1,4-Dioxane
 Concen: 412.634 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

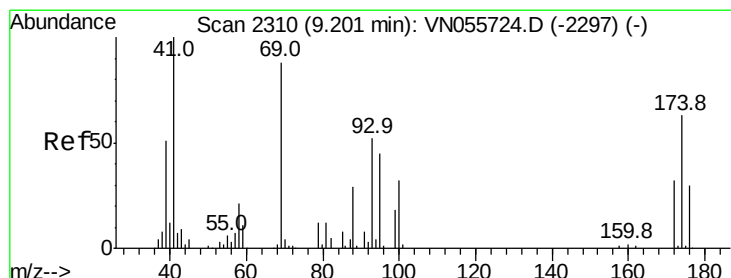
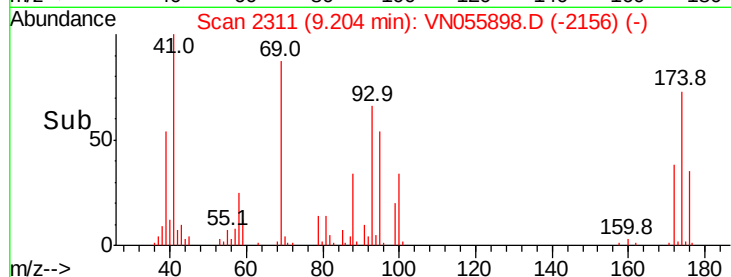
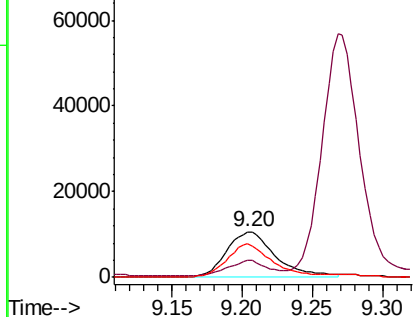
Tot Ion	Ratio	Lower	Upper
88	100		
43	26.3	20.5	30.7
58	67.7	56.1	84.1

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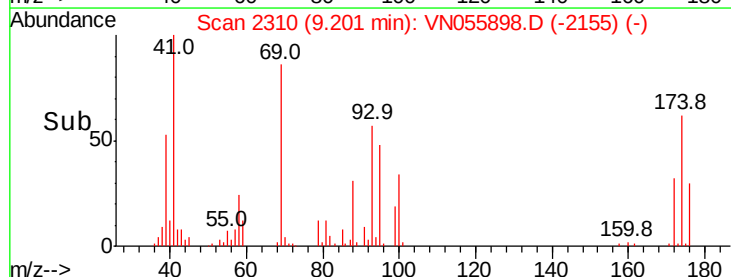
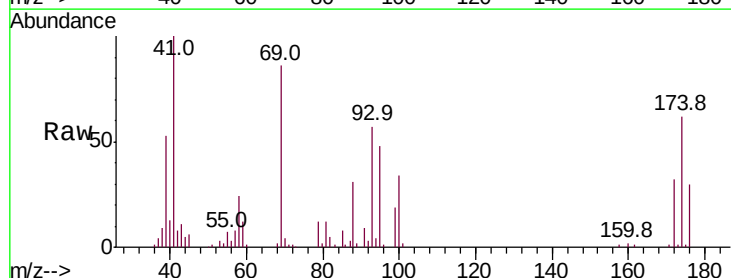
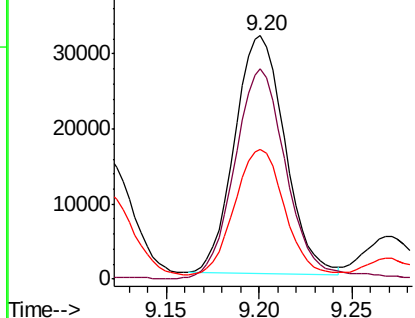
Abundance Ion 88.00 (87.70 to 88.70): VNO
 Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO

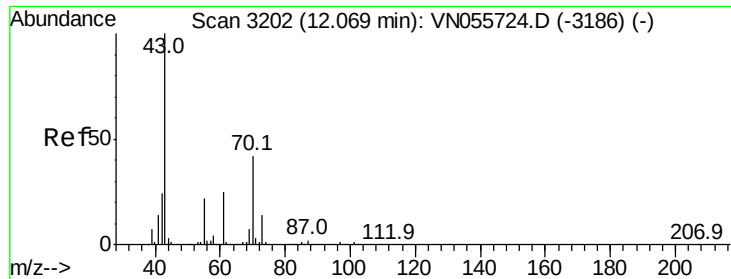


#46
 Methyl methacrylate
 Concen: 19.178 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
41	100		
69	87.7	43.8	131.4
39	52.7	25.6	76.6

Abundance Ion 41.00 (40.70 to 41.70): VNO
 Ion 69.00 (68.70 to 69.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO





#47

n-amvl Acetate

Concen: 18.646 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 43 Resp: 103281

Ion Ratio Lower Upper

43 100

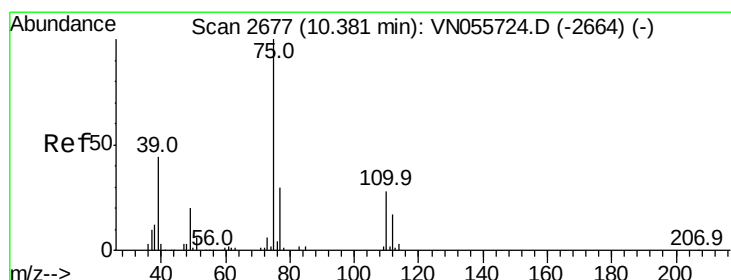
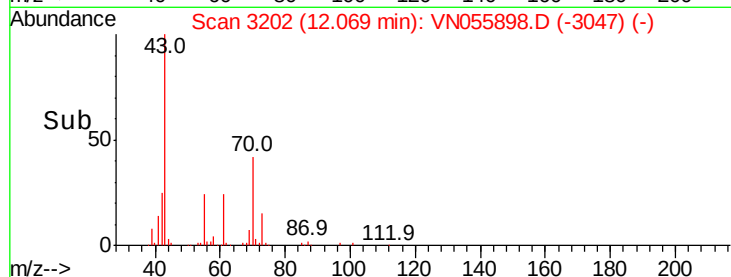
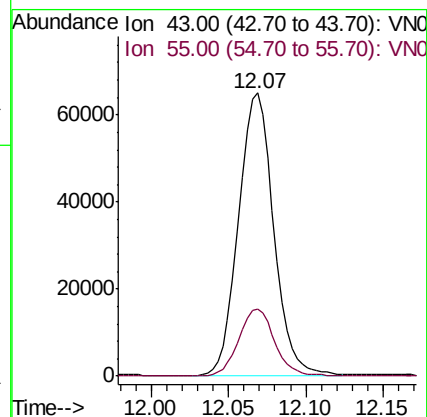
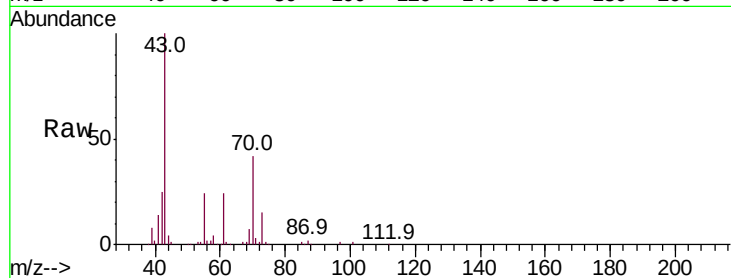
55 24.0 17.8 26.6

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#48

t-1,3-Dichloropropene

Concen: 17.287 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN055898.D

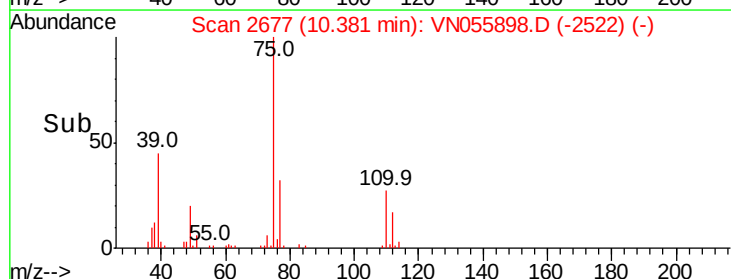
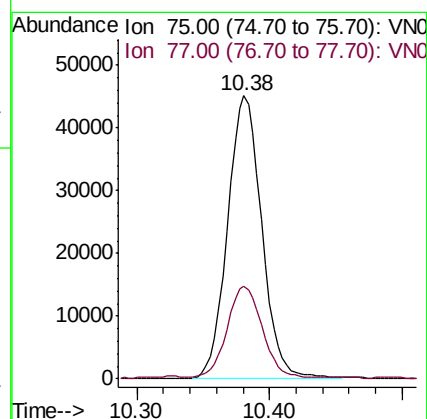
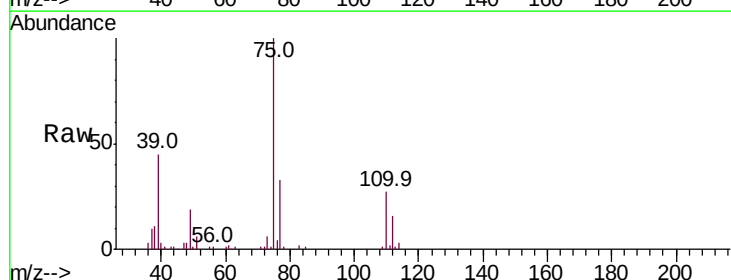
Acq: 30 May 2019 14:13

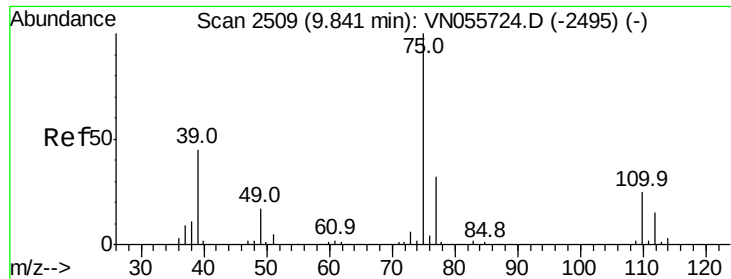
Tgt Ion: 75 Resp: 80908

Ion Ratio Lower Upper

75 100

77 32.1 25.2 37.8





#49

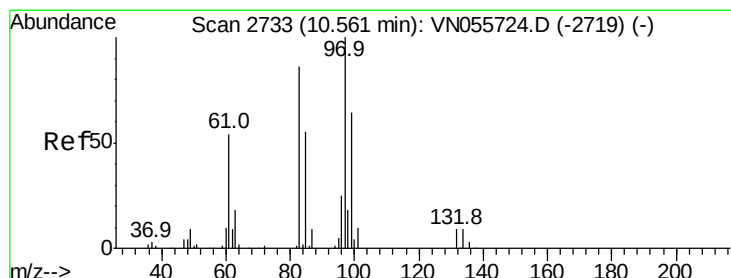
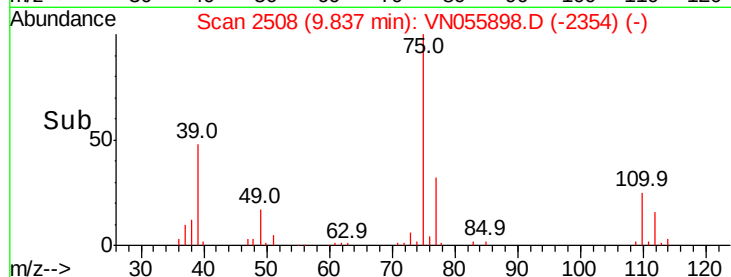
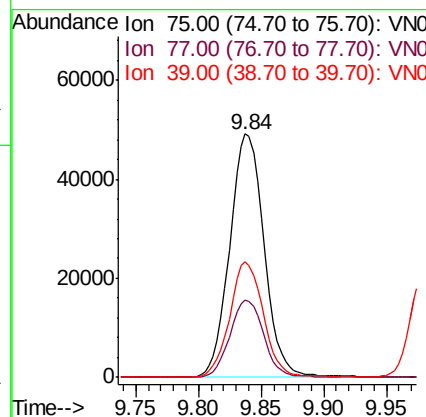
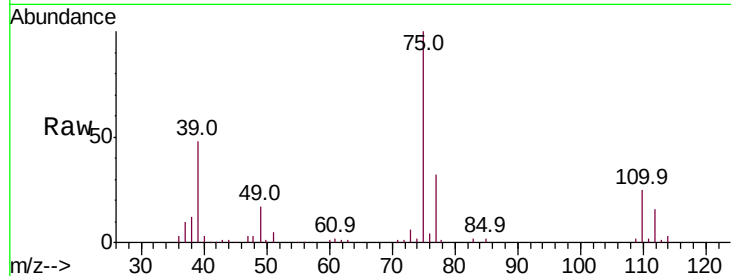
cis-1,3-Dichloropropene
 Concen: 18.245 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.0	39.0
39	47.7	36.2	54.4

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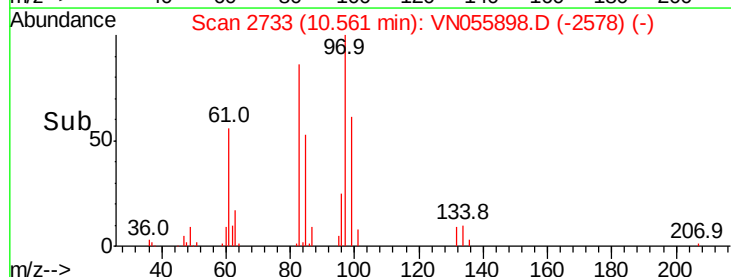
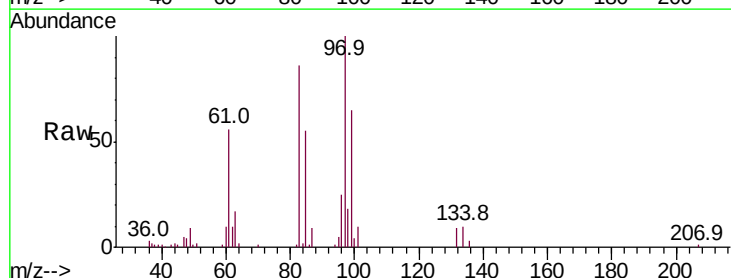
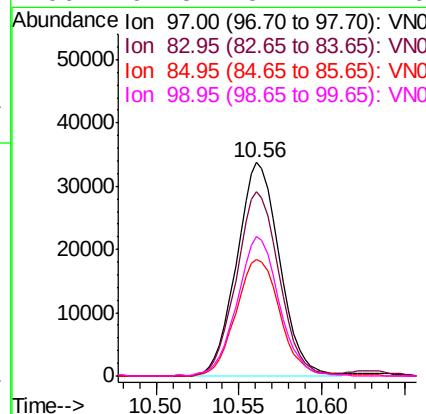
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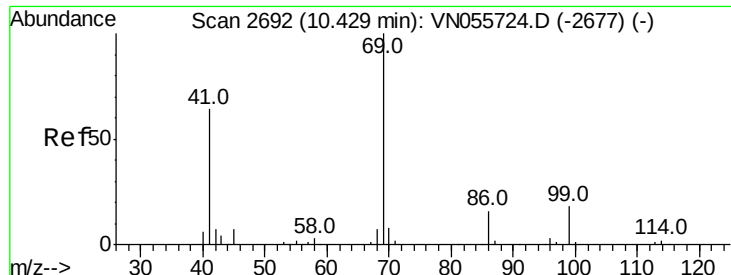


#50

1,1,2-Trichloroethane
 Concen: 20.190 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.4	68.9	103.3
85	54.6	44.3	66.5
99	64.8	51.4	77.0





#51

Ethyl methacrylate

Concen: 18.962 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

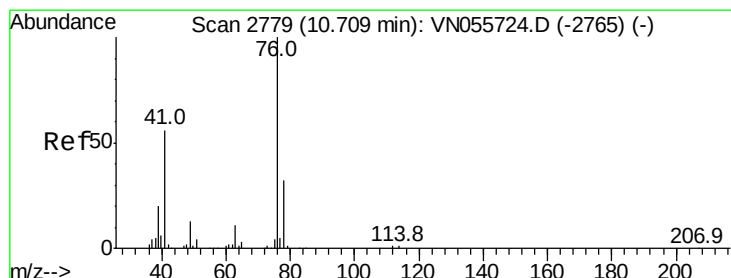
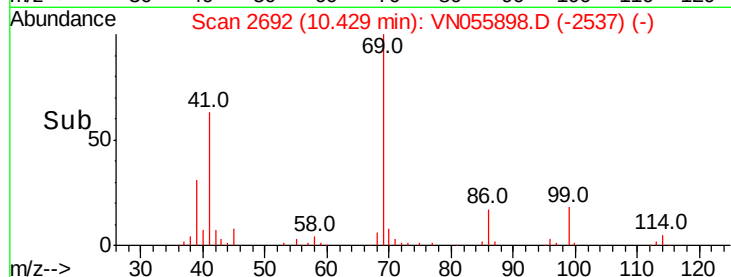
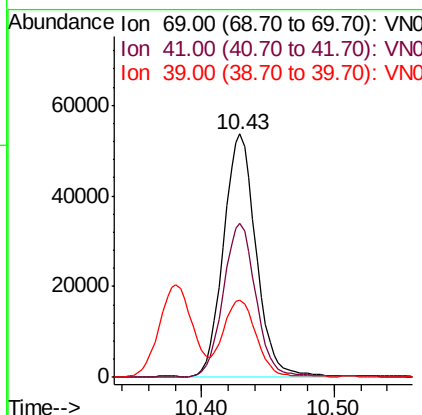
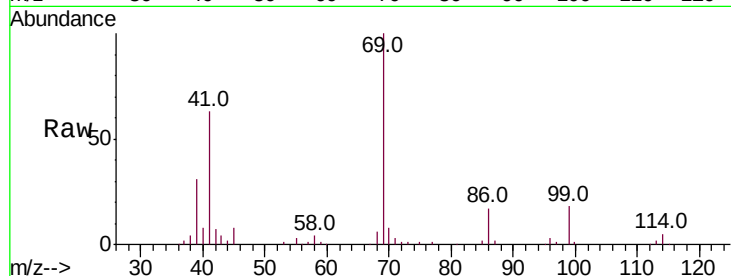
ClientSampleId :

VSTDCCC020

Tot Ion:	69	Resp:	92047
Ion Ratio	Lower	Upper	
69	100		
41	63.0	31.9	95.7
39	31.1	15.7	47.0

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#52

1,3-Dichloropropane

Concen: 20.187 ug/l

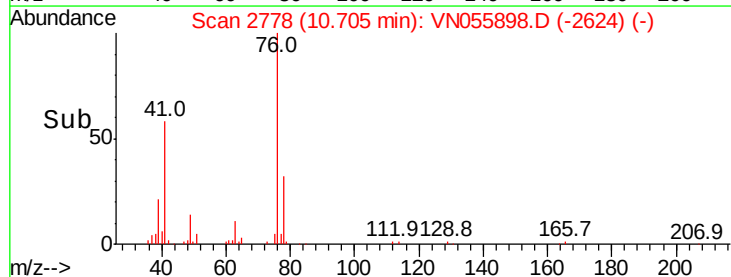
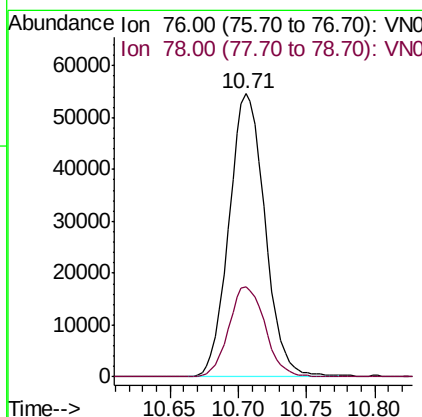
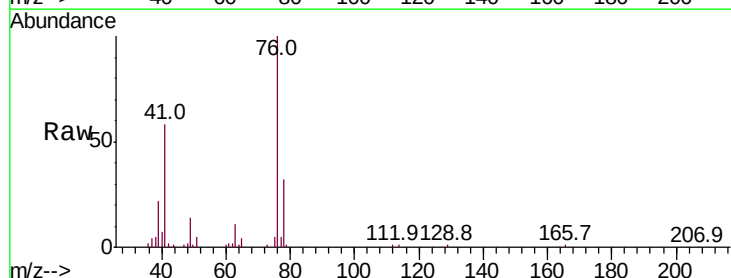
RT: 10.71 min Scan# 2778

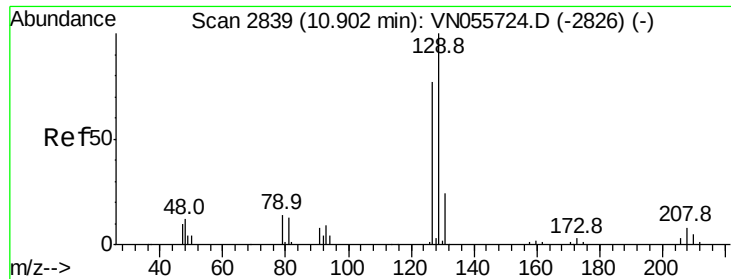
Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Tgt Ion:	76	Resp:	100212
Ion Ratio	Lower	Upper	
76	100		
78	32.0	0.0	65.0





#53

Dibromochloromethane

Concen: 17.375 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:129 Resp: 61817

Ion Ratio Lower Upper

129 100

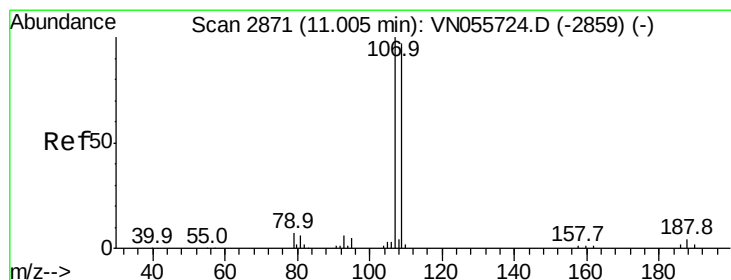
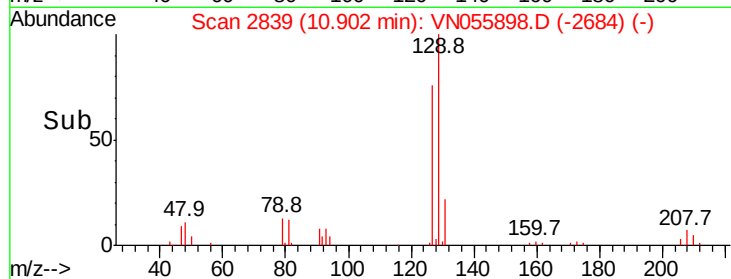
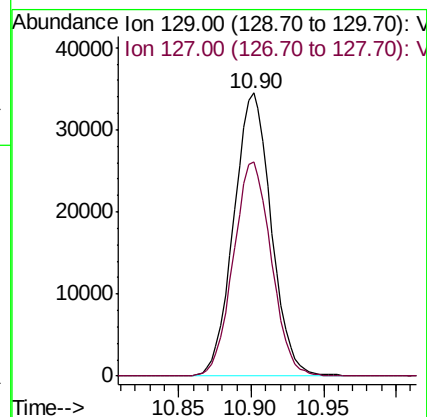
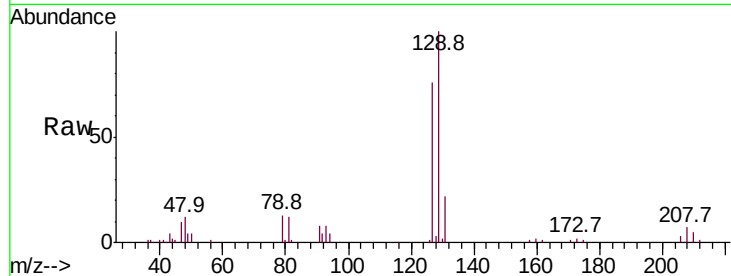
127 76.4 39.2 117.6

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#54

1,2-Dibromoethane

Concen: 20.187 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN055898.D

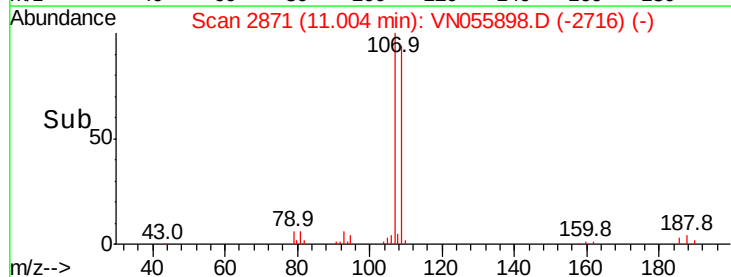
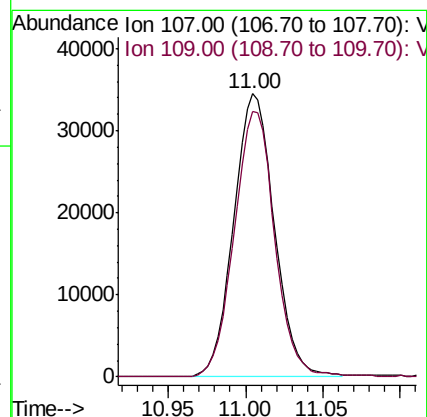
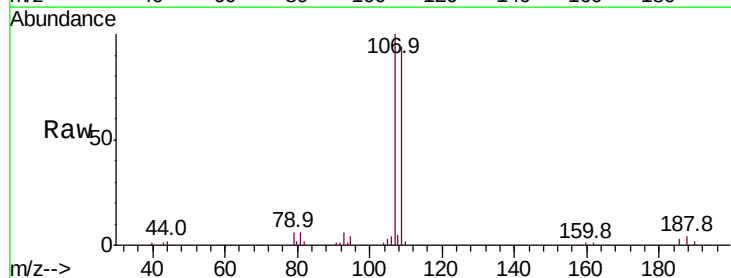
Acq: 30 May 2019 14:13

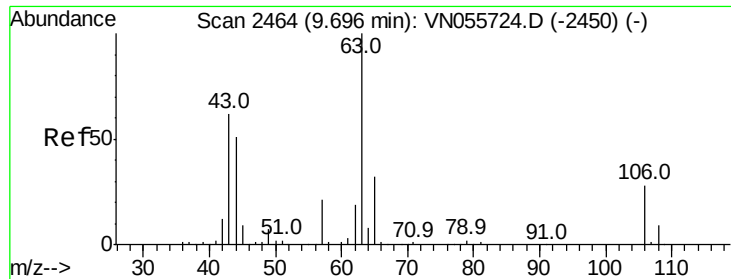
Tgt Ion:107 Resp: 62911

Ion Ratio Lower Upper

107 100

109 93.6 76.6 115.0





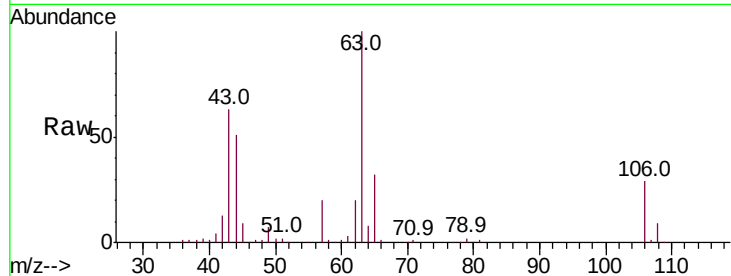
#55
2-Chloroethyl vinyl ether
Concen: 89.800 ug/l
RT: 9.69 min Scan# 2463
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.4	38.0
106	28.4	22.1	33.1

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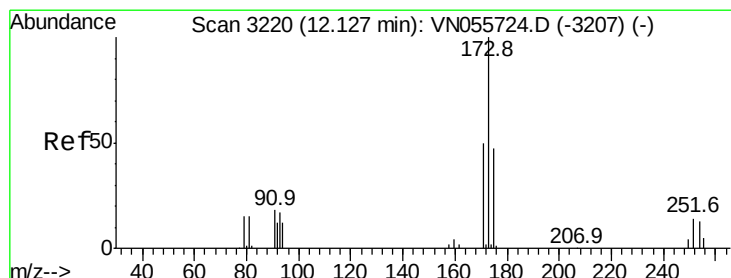
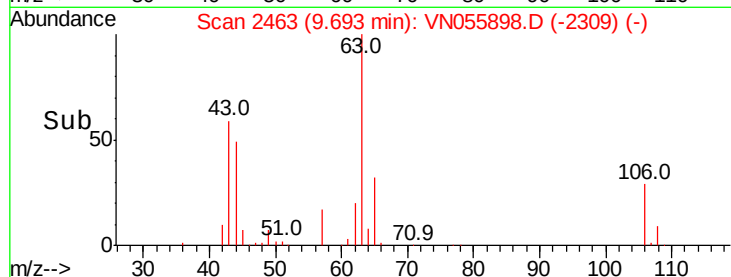
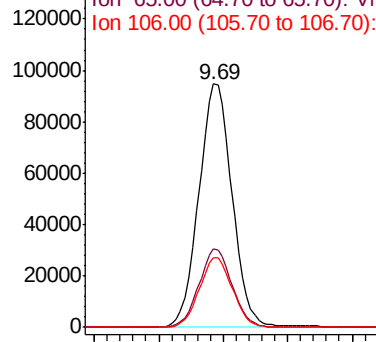


Abundance

Ion 63.00 (62.70 to 63.70): VN055724.D (-2450) (-)

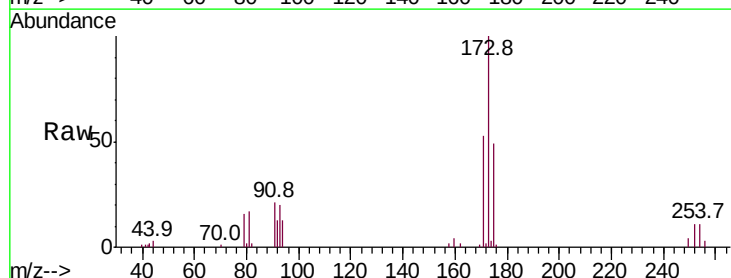
Ion 65.00 (64.70 to 65.70): VN055724.D (-2450) (-)

Ion 106.00 (105.70 to 106.70): VN055724.D (-2450) (-)



#56
Bromoform
Concen: 14.615 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.5	38.5	57.7
254	9.4	9.4	14.0

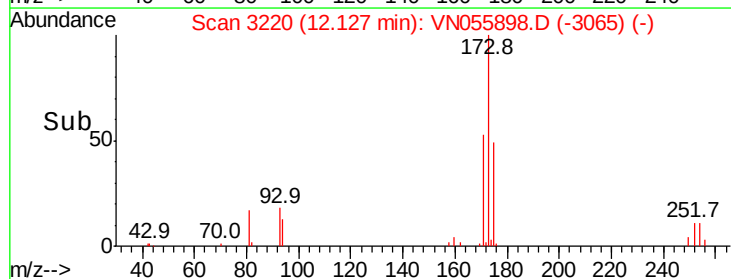
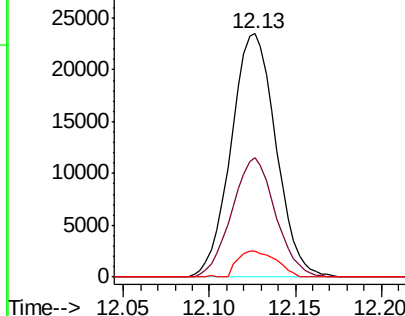


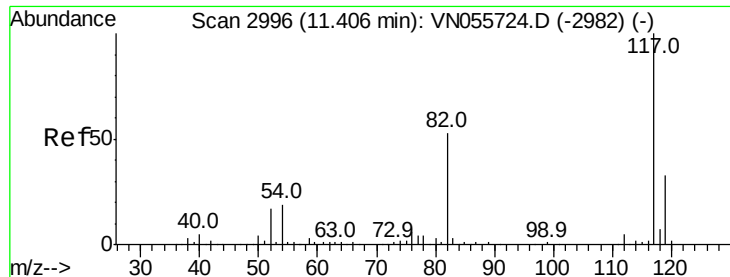
Abundance

Ion 173.00 (172.70 to 173.70): VN055724.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN055724.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN055724.D (-3207) (-)





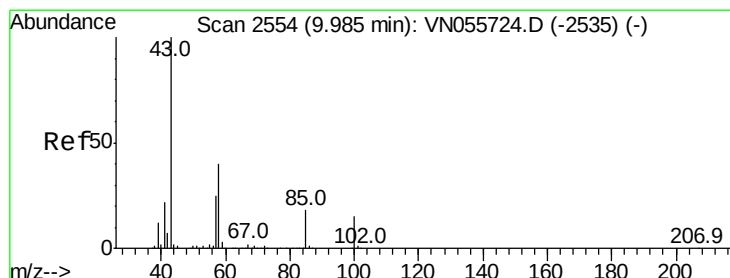
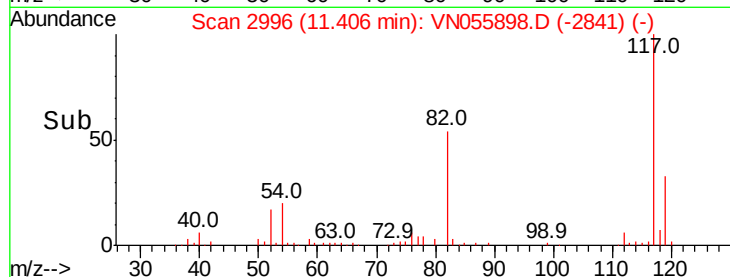
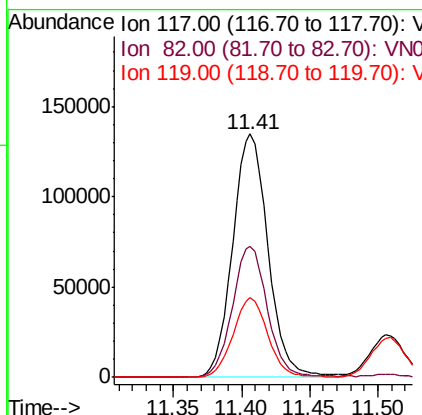
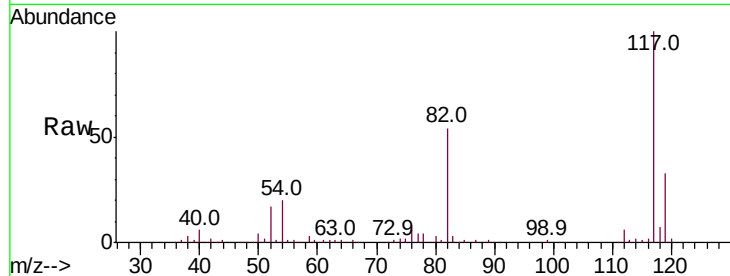
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.6	64.0
119	32.3	25.9	38.9

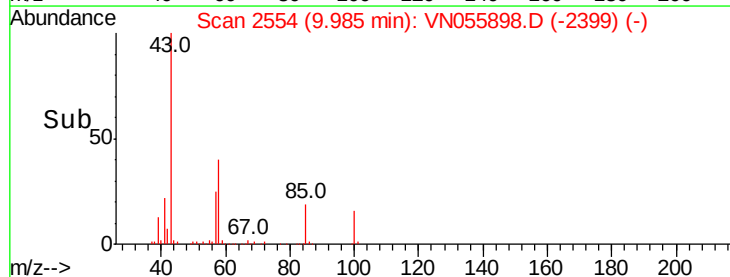
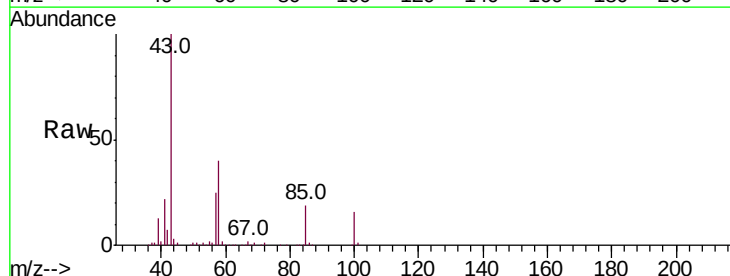
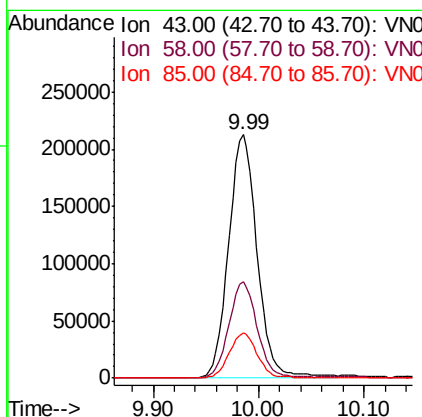
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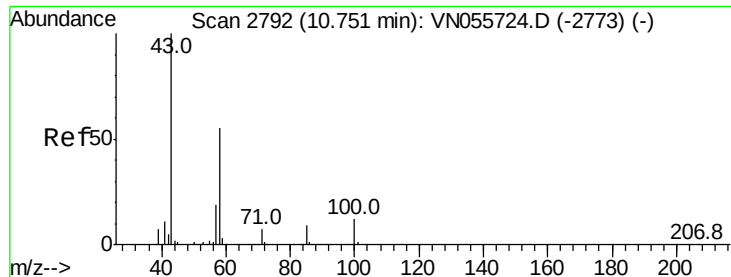
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#58
4-Methyl-2-Pentanone
Concen: 98.687 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.7	47.5
85	18.5	14.5	21.7





#59

2-Hexanone

Concen: 99.037 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

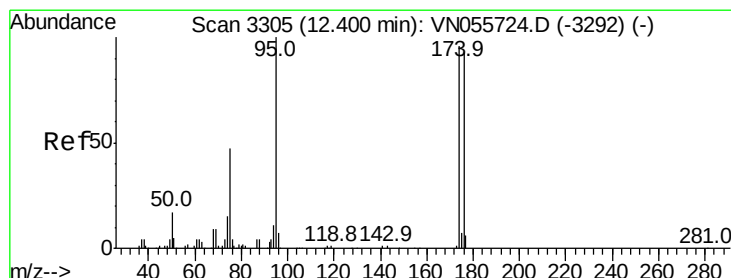
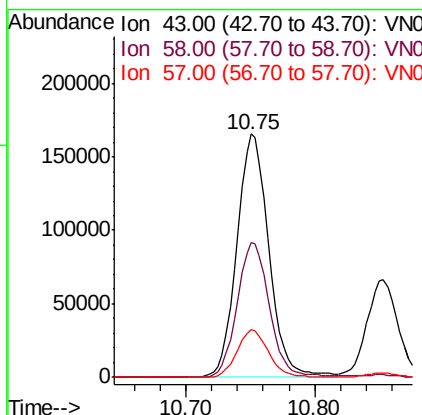
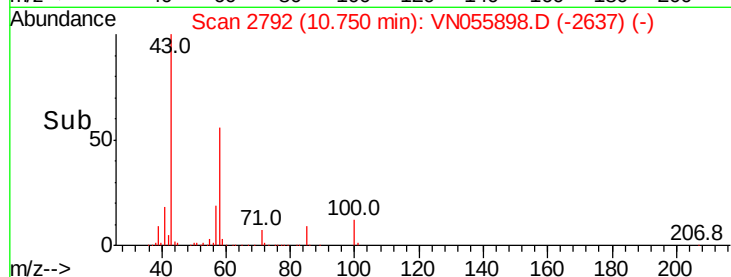
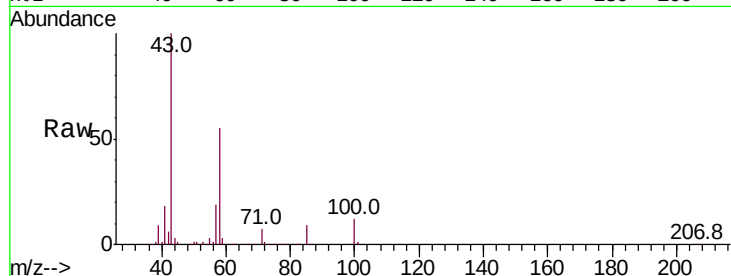
ClientSampled :

VSTDCCC020

Tot Ion:	43	Resp:	284602
Ion Ratio	Lower	Upper	
43	100		
58	55.9	44.8	67.2
57	19.4	15.3	22.9

Manual Integrations
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#60

4-Bromofluorobenzene

Concen: 29.204 ug/l

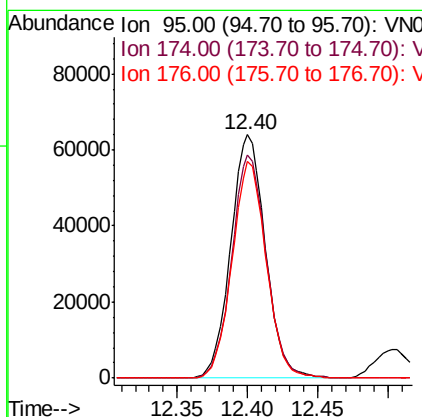
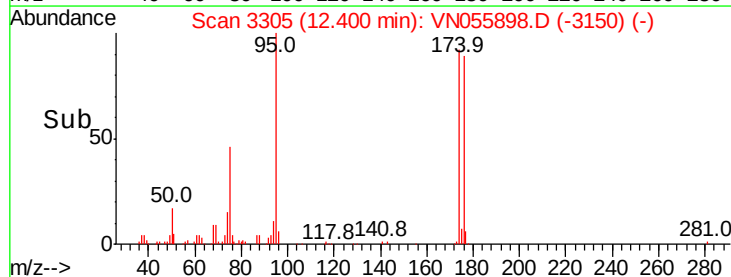
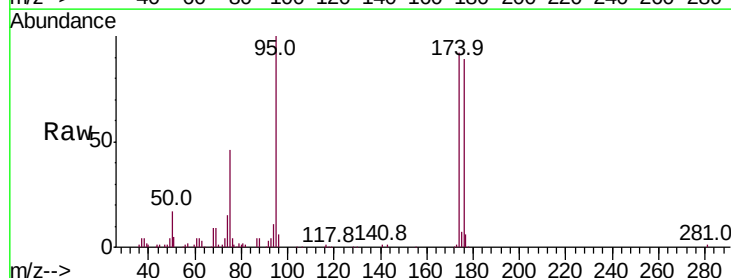
RT: 12.40 min Scan# 3305

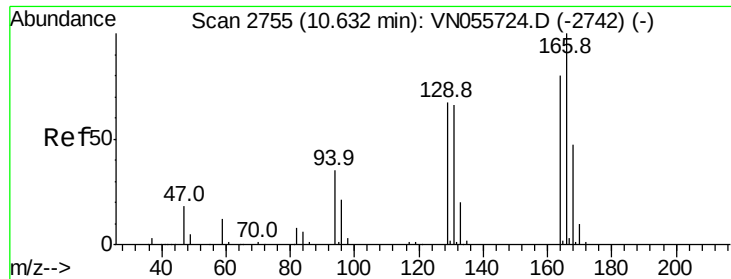
Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Tgt Ion:	95	Resp:	110311
Ion Ratio	Lower	Upper	
95	100		
174	91.1	75.7	113.5
176	87.7	74.1	111.1





#61

Tetrachloroethene

Concen: 20.002 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion:164 Resp: 65744

Ion Ratio Lower Upper

164 100

166 127.2 100.6 150.8

129 88.7 67.4 101.2

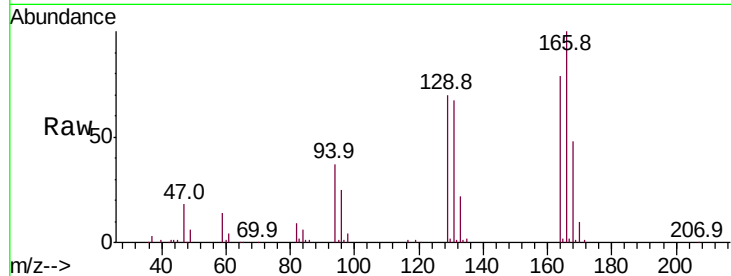
131 84.8 66.6 99.8

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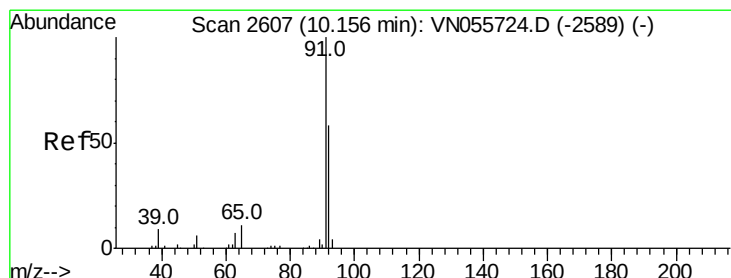
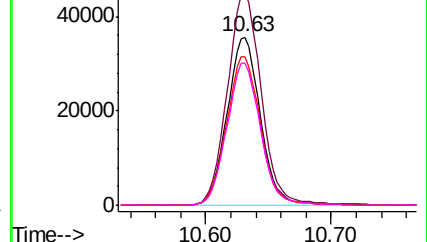
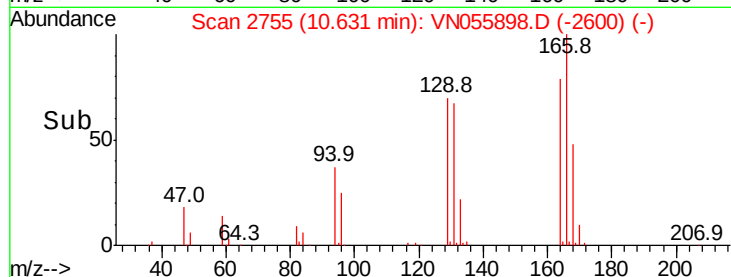


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 20.412 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN055898.D

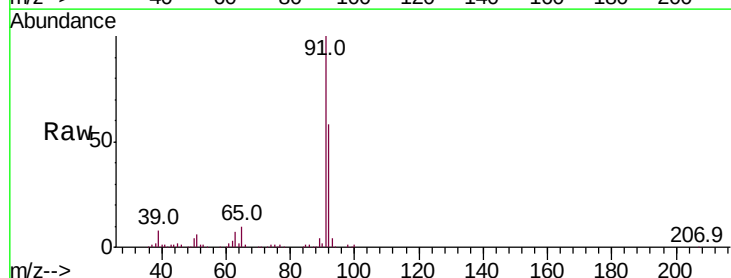
Acq: 30 May 2019 14:13

Tgt Ion: 91 Resp: 266525

Ion Ratio Lower Upper

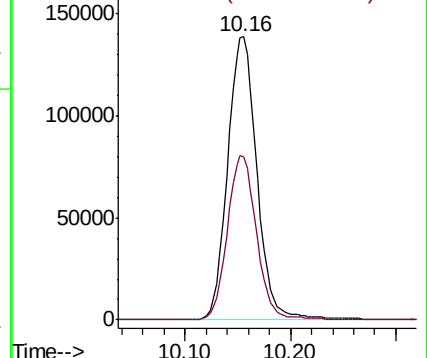
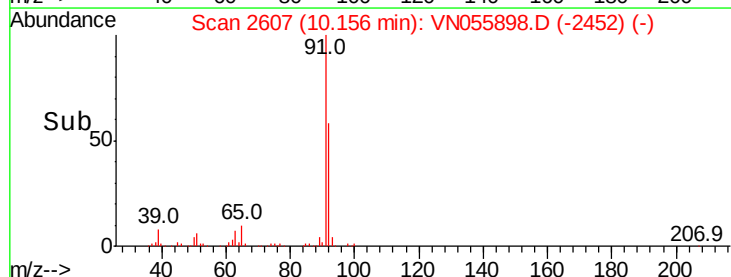
91 100

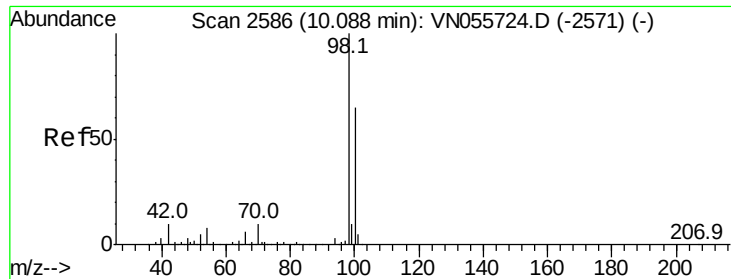
92 58.0 45.6 68.4



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 92.00 (91.70 to 92.70): VNO





#63

Toluene-d8

Concen: 30.202 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 98 Resp: 335129

Ion Ratio Lower Upper

98 100

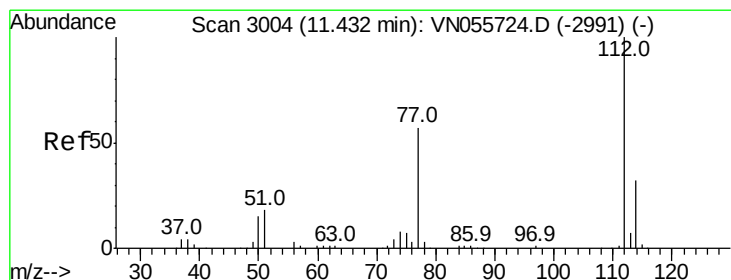
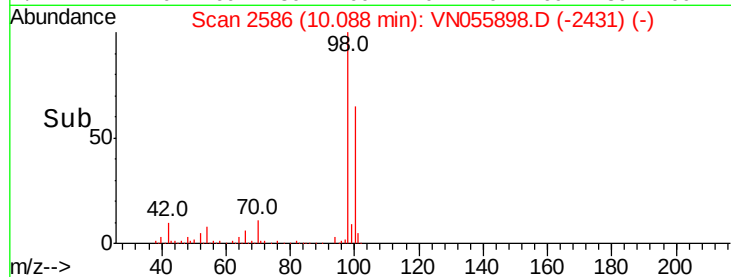
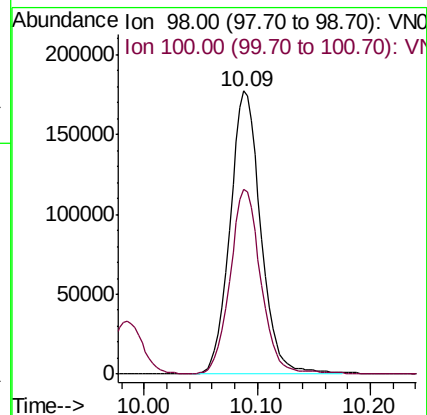
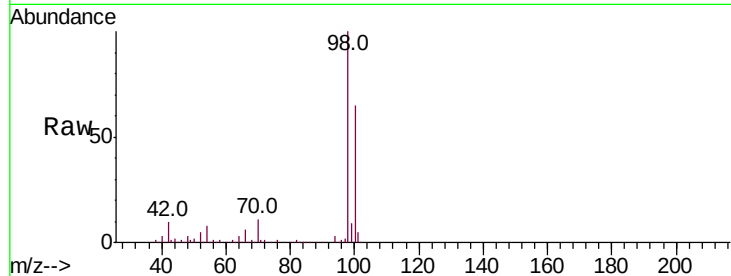
100 65.5 51.6 77.4

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#64

Chlorobenzene

Concen: 20.213 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN055898.D

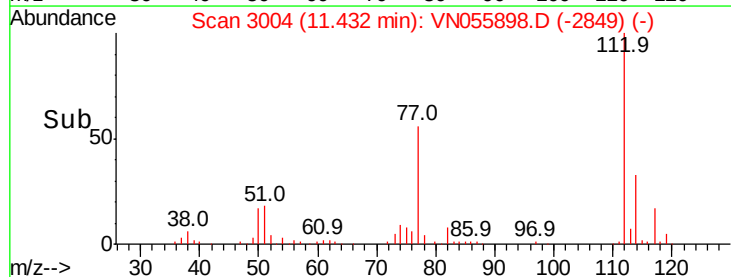
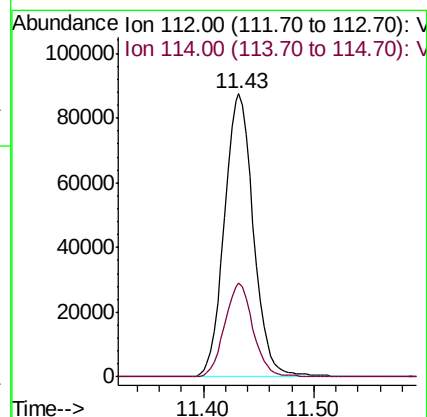
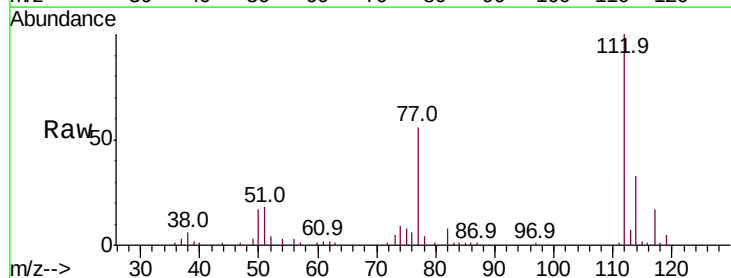
Acq: 30 May 2019 14:13

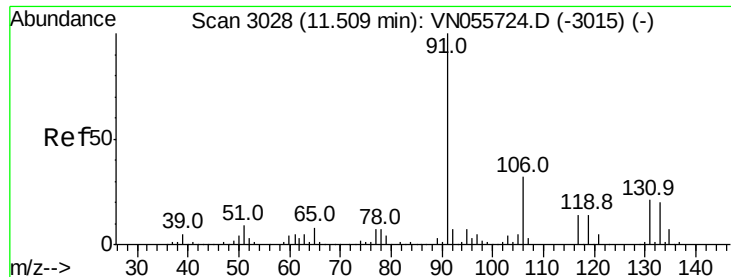
Tgt Ion: 112 Resp: 160101

Ion Ratio Lower Upper

112 100

114 33.2 25.4 38.0





#65

1,1,1,2-Tetrachloroethane

Concen: 18.338 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

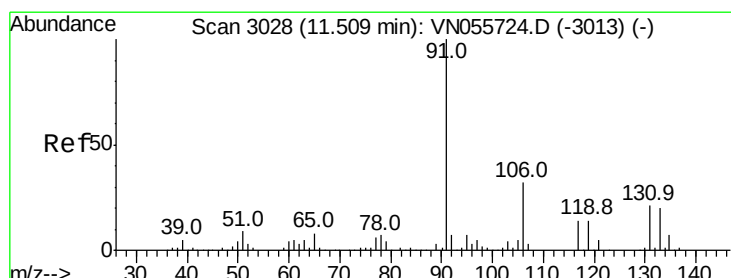
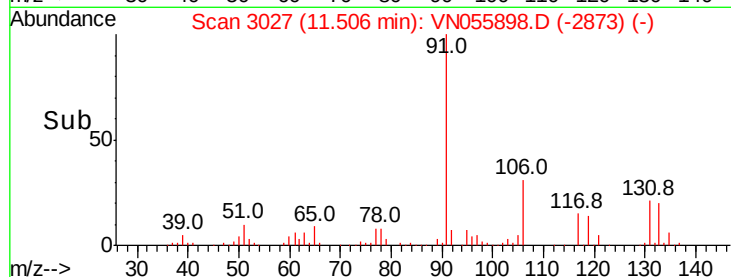
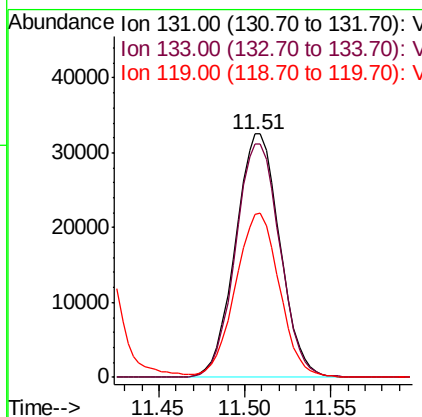
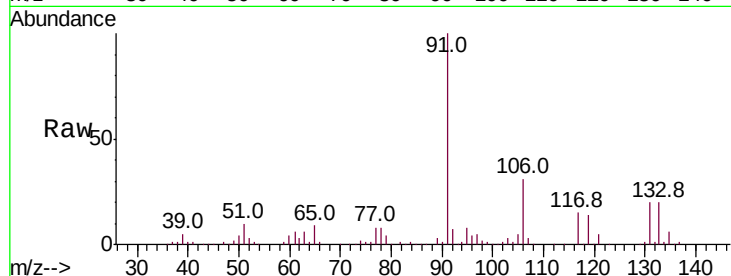
ClientSampleId :

VSTDCCC020

Tot Ion:	131	Resp:	58524
Ion	Ratio	Lower	Upper
131	100		
133	96.1	0.0	188.8
119	67.1	0.0	133.6

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#66

Ethyl Benzene

Concen: 19.991 ug/l

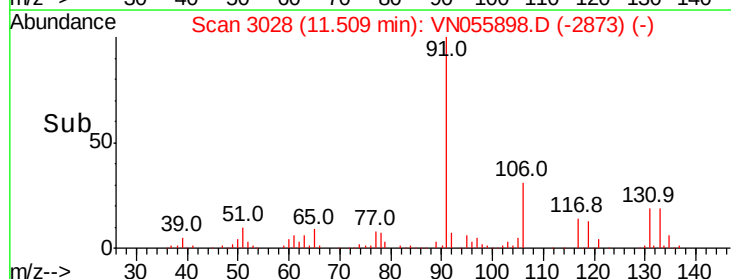
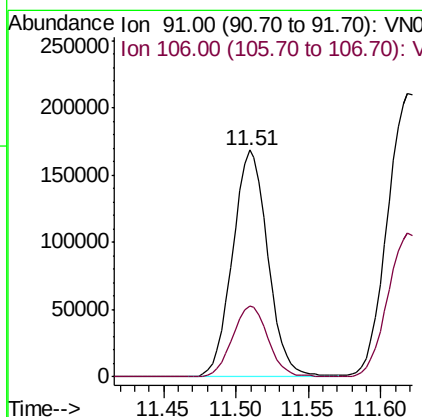
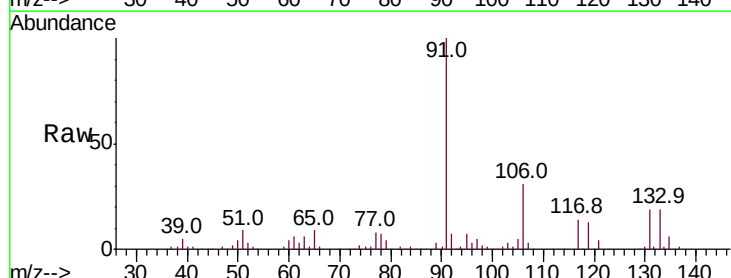
RT: 11.51 min Scan# 3028

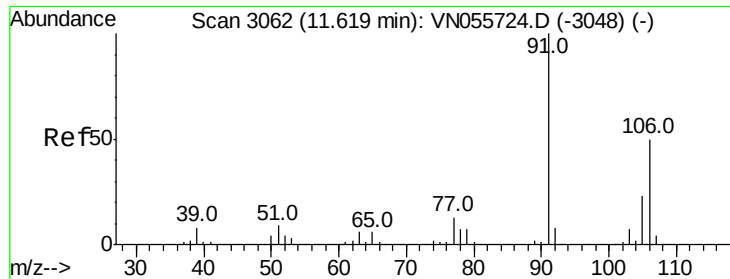
Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Tgt Ion:	91	Resp:	285197
Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.6	38.4





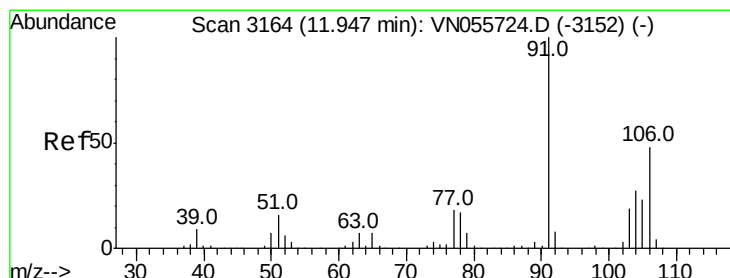
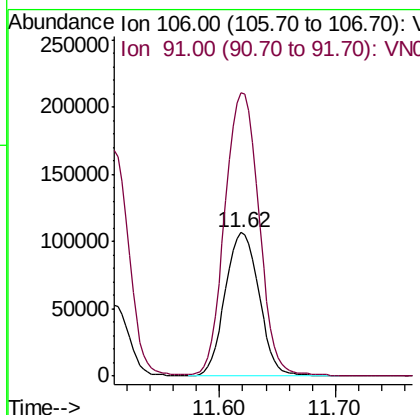
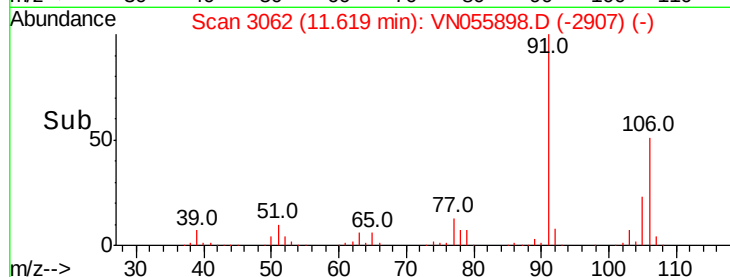
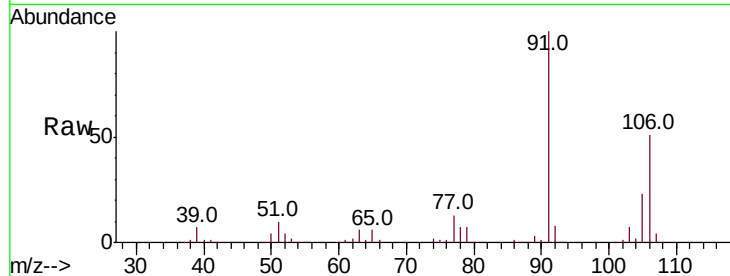
#67
m/p-Xylenes
Concen: 40.112 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion:106 Resp: 217394
Ion Ratio Lower Upper
106 100
91 198.6 159.5 239.3

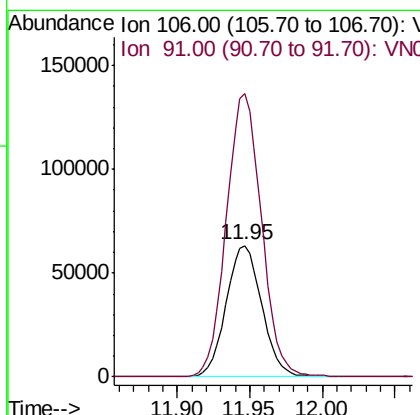
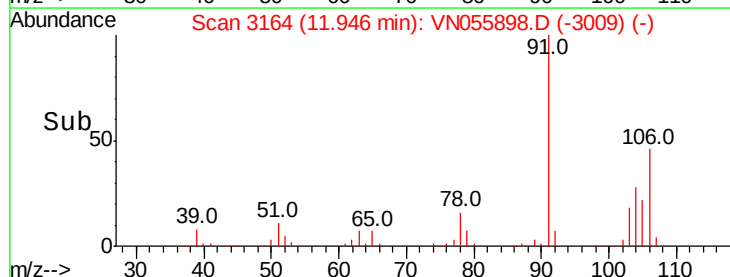
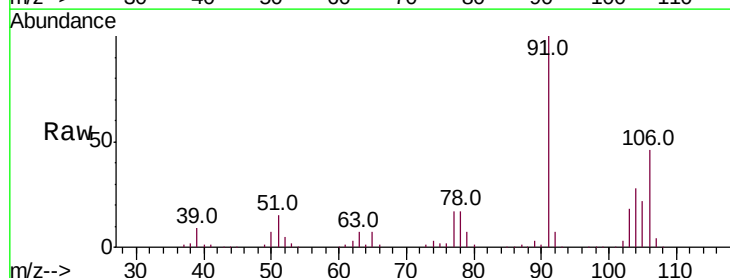
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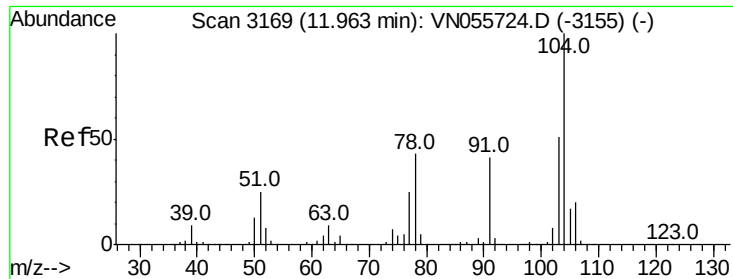
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#68
o-Xylene
Concen: 20.102 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion:106 Resp: 107808
Ion Ratio Lower Upper
106 100
91 213.4 105.4 316.1





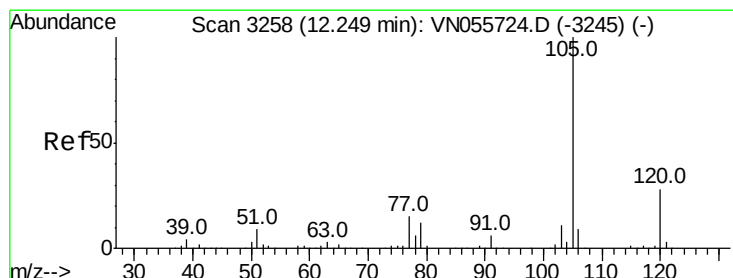
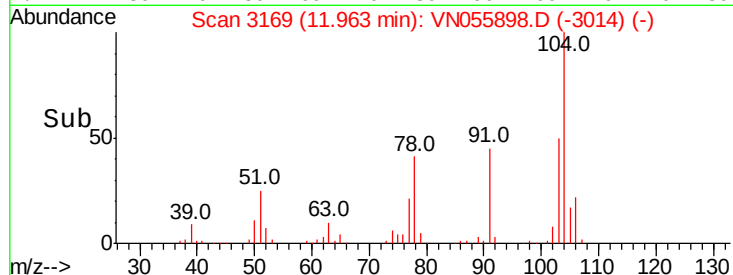
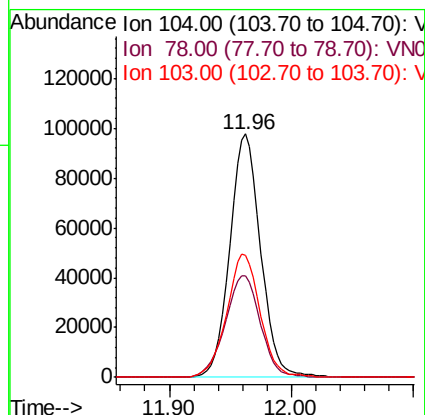
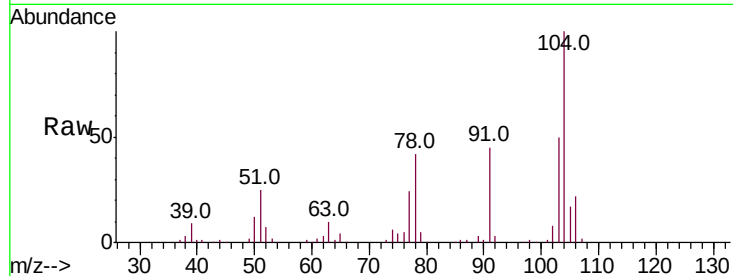
#69
Stvrene
Concen: 19.513 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
104	100		
78	47.5	38.7	58.1
103	54.9	45.0	67.6

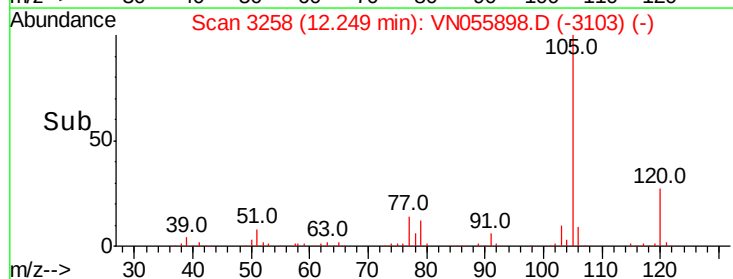
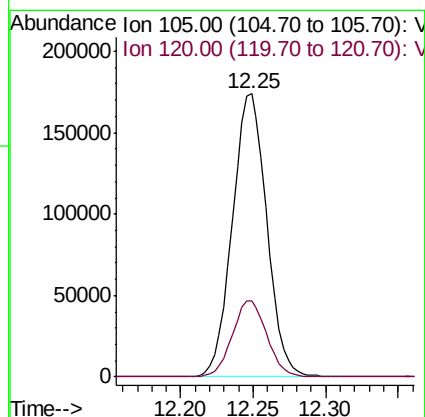
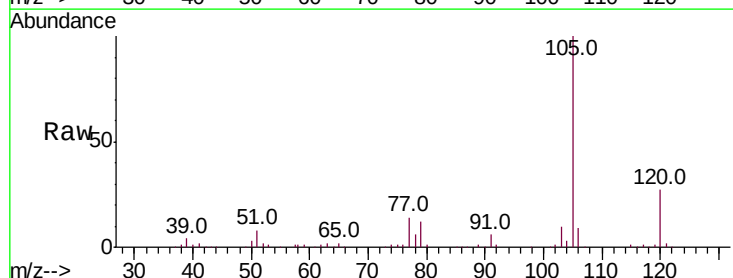
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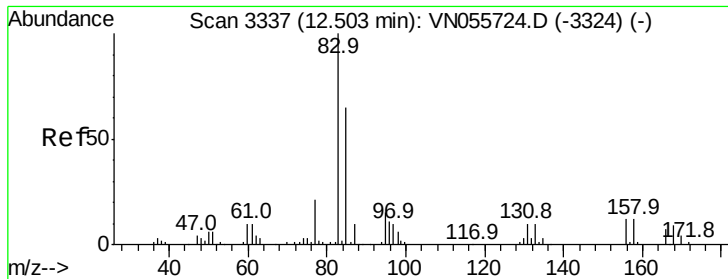
MMDadoda
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#70
Isopropylbenzene
Concen: 20.367 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.1	19.2	35.6





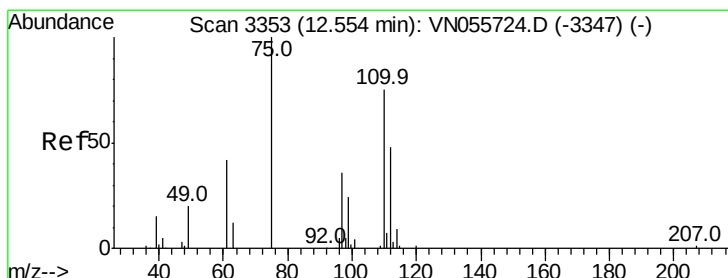
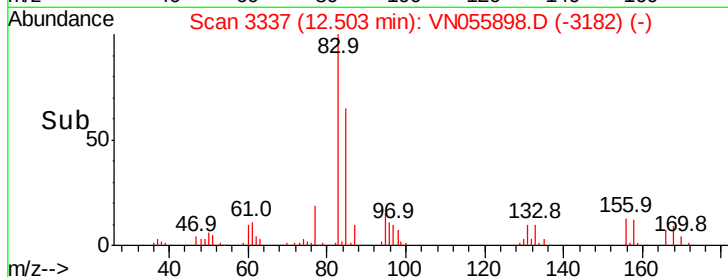
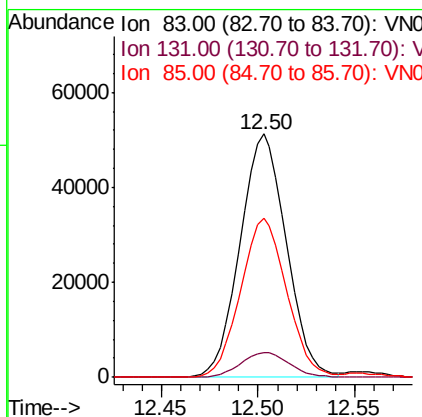
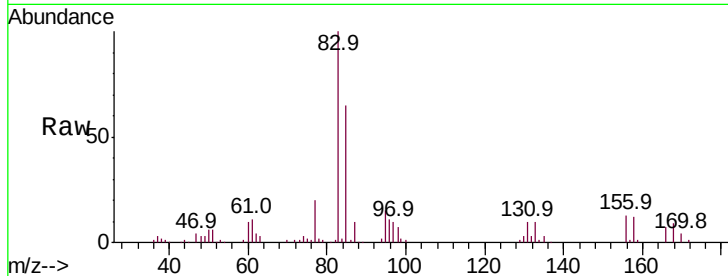
#71
 1,1,2,2-Tetrachloroethane
 Concen: 19.786 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	83	Resp	85443
Ion Ratio	100	Lower	Upper
83	10.6	5.3	15.8
131	65.0	32.3	96.9

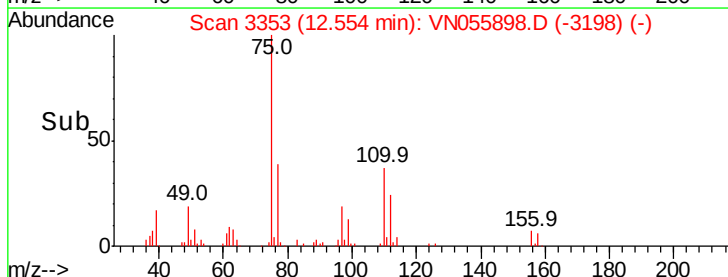
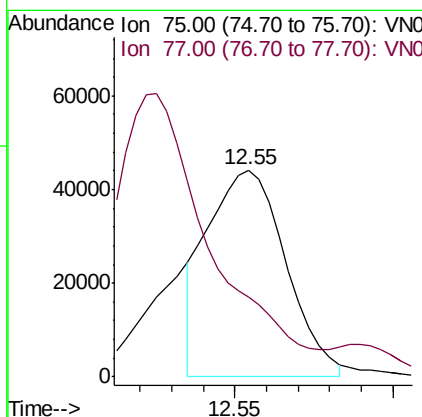
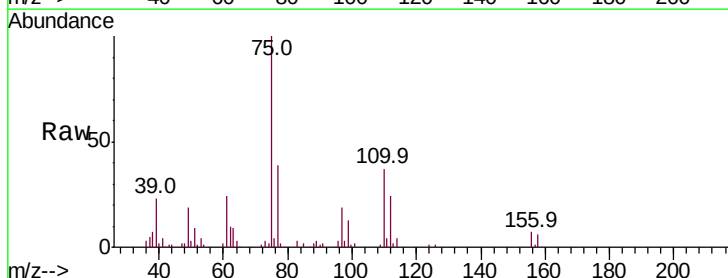
Manual Integrations
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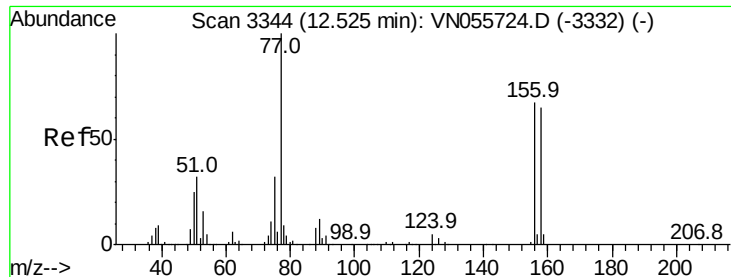
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#72
 1,2,3-Trichloropropane
 Concen: 20.461 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	75	Resp	76048
Ion Ratio	100	Lower	Upper
75	173.6	0.0	349.8





#73

Bromobenzene

Concen: 19.366 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

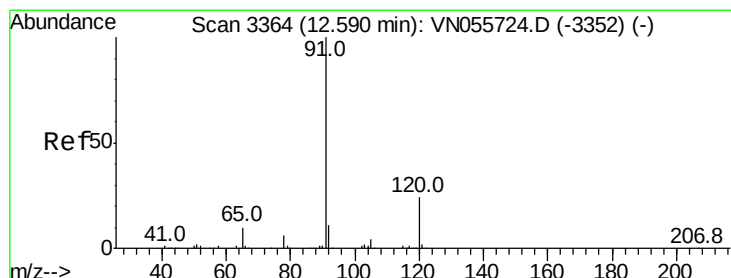
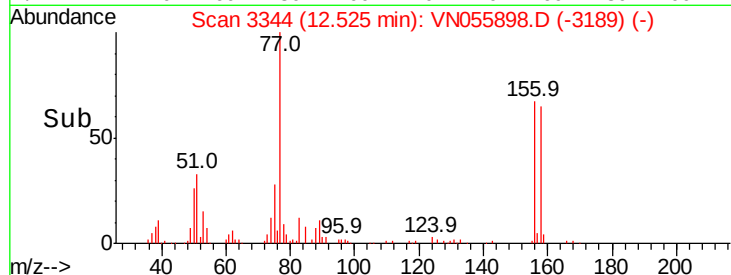
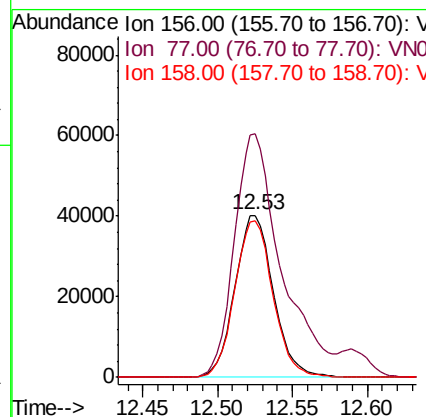
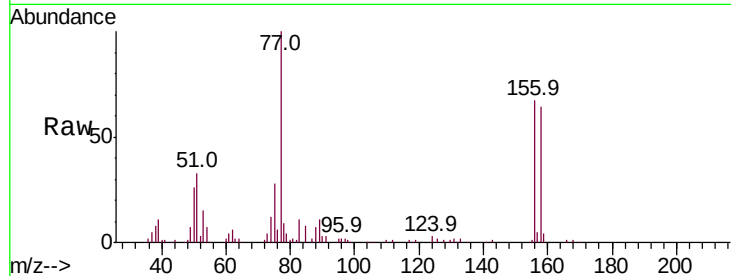
ClientSampled :

VSTDCCC020

Tot Ion:	156	Resp:	71891
Ion Ratio	Lower	Upper	
156	100		
77	183.6	0.0	368.0
158	96.4	0.0	195.0

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#74

n-propylbenzene

Concen: 19.781 ug/l

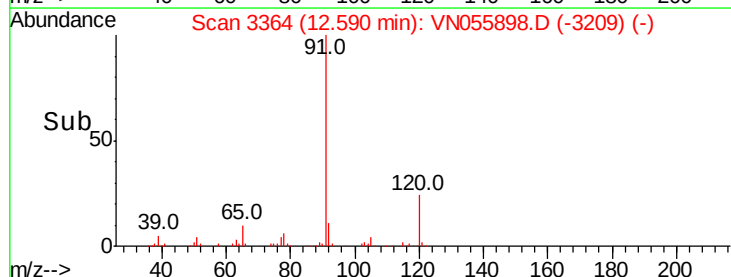
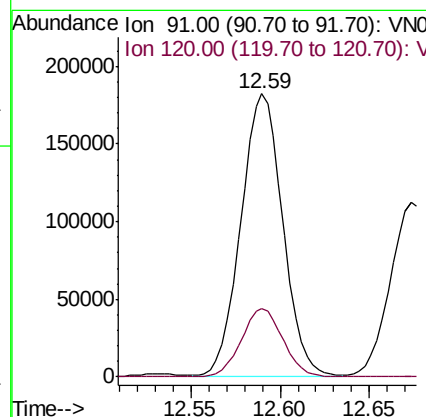
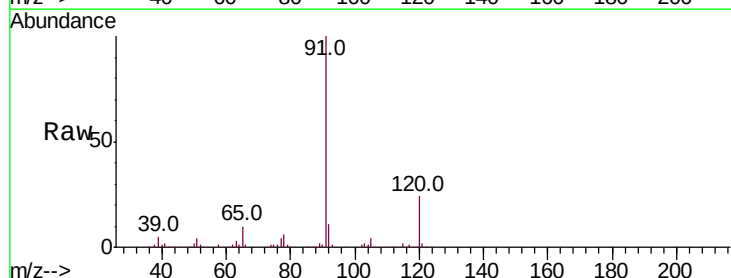
RT: 12.59 min Scan# 3364

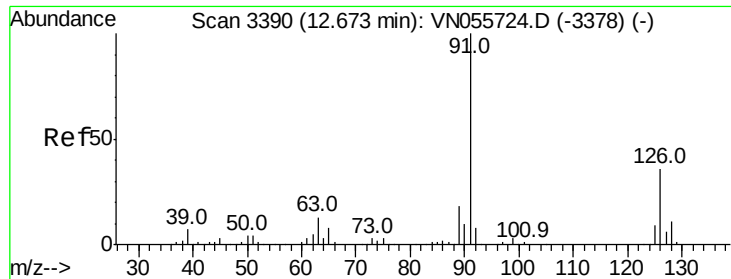
Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Tgt Ion:	91	Resp:	299363
Ion Ratio	Lower	Upper	
91	100		
120	23.9	0.0	47.4





#75

2-Chlorotoluene

Concen: 20.495 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 91 Resp: 189471

Ion Ratio Lower Upper

91 100

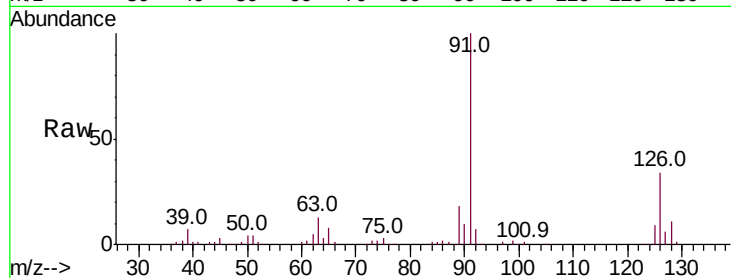
126 34.5 0.0 71.0

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN055724.D (-3378) (-)

Ion 126.00 (125.70 to 126.70): VN055724.D (-3378) (-)

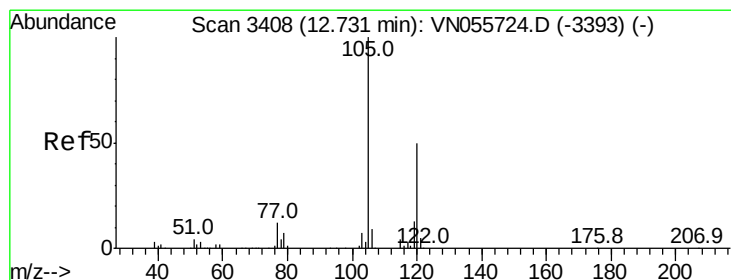
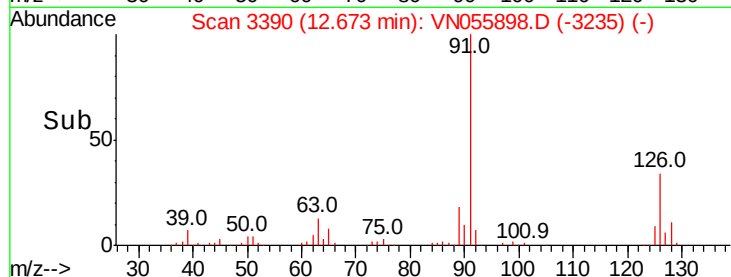
12.67

100000

50000

0

Time--> 12.60 12.65 12.70



#76

1,3,5-Trimethylbenzene

Concen: 20.153 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN055898.D

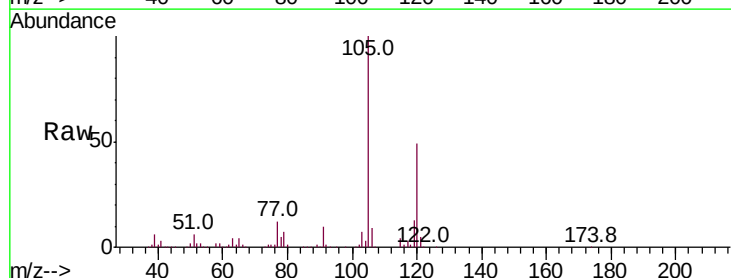
Acq: 30 May 2019 14:13

Tgt Ion:105 Resp: 233755

Ion Ratio Lower Upper

105 100

120 49.4 0.0 99.2



Abundance Ion 105.00 (104.70 to 105.70): VN055724.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN055724.D (-3393) (-)

12.73

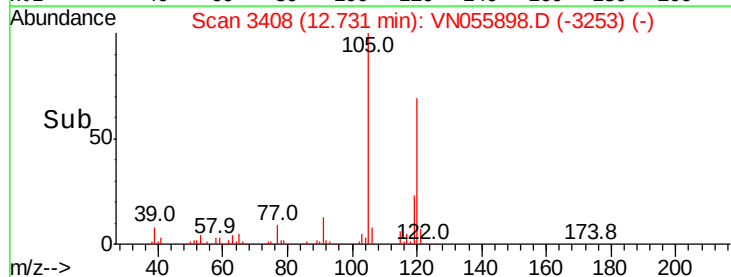
150000

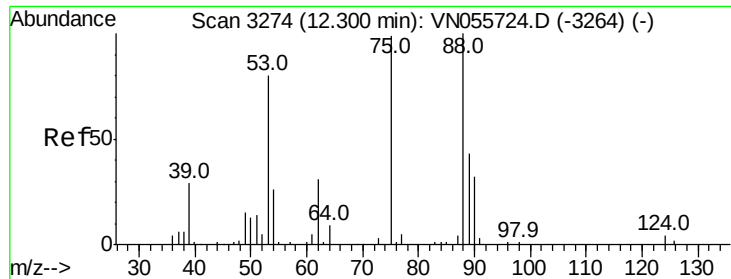
100000

50000

0

Time--> 12.65 12.70 12.75 12.80





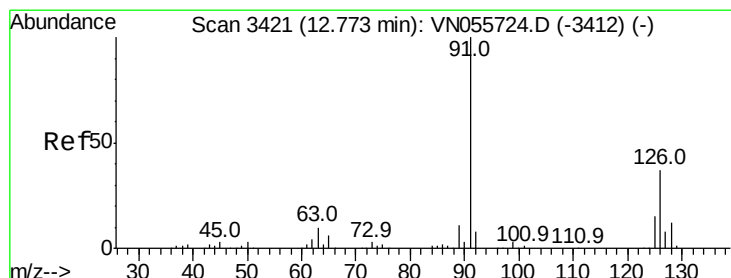
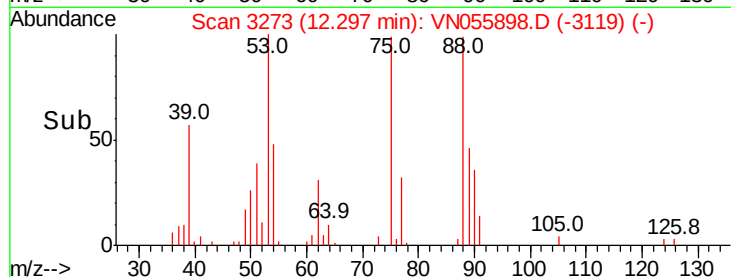
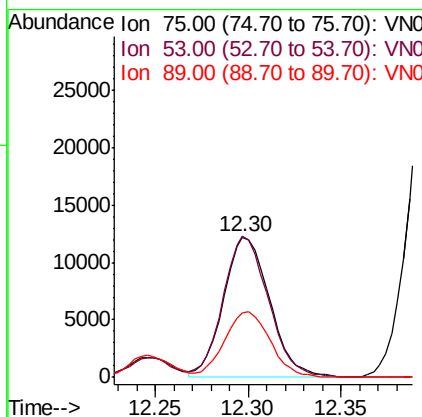
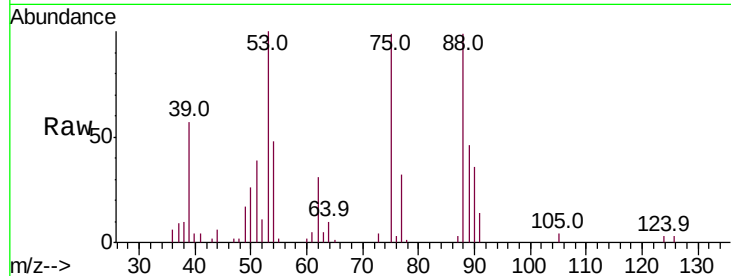
#77
t-1,4-Dichloro-2-butene
Concen: 14.337 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	100.6	40.1	120.3
89	46.1	22.6	67.8

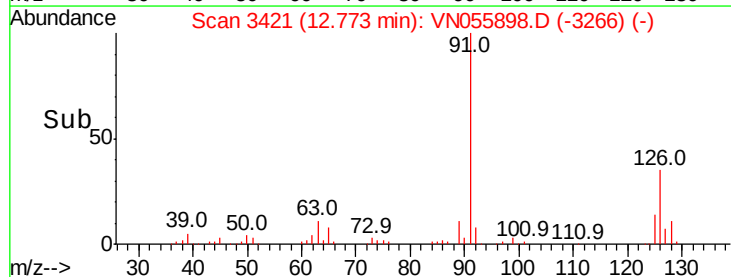
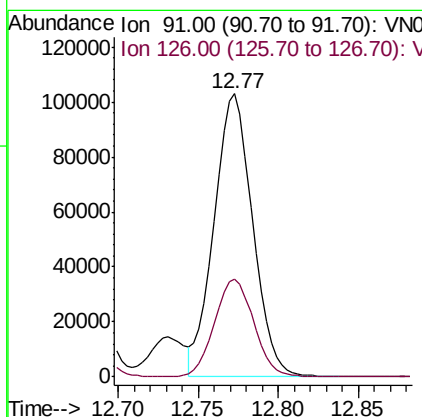
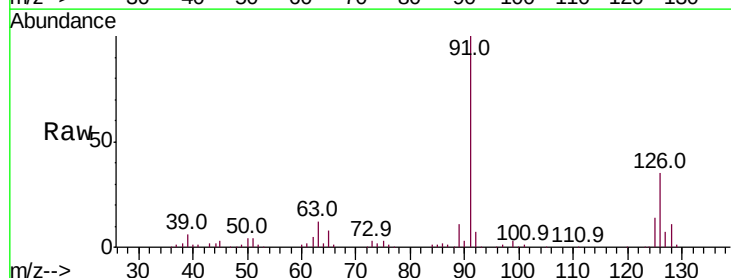
Manual Integrations
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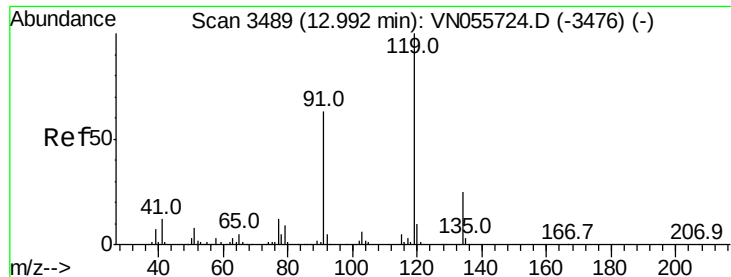
MMDadoda
5/31/2019 9:38:27 AM



#78
4-Chlorotoluene
Concen: 19.487 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.1	0.0	69.0





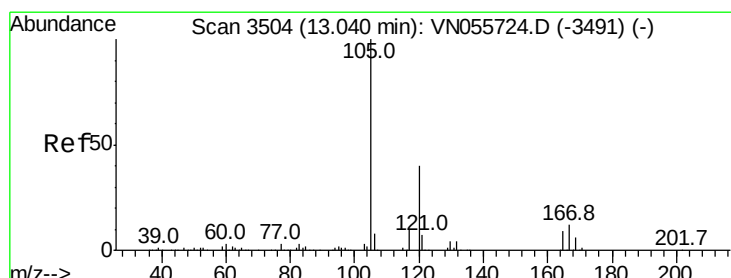
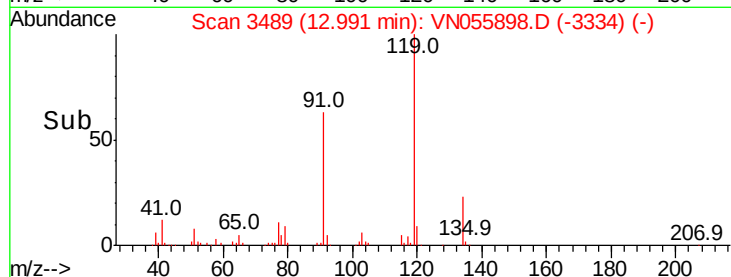
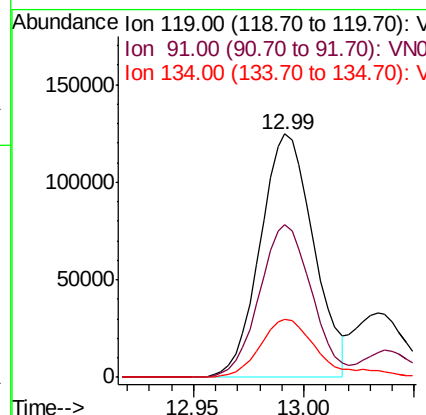
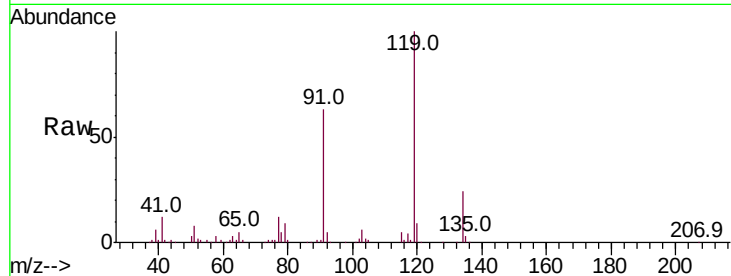
#79
tert-butylbenzene
Concen: 20.529 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	209331		
91	61.5	0.0	123.8	
134	26.1	0.0	52.6	

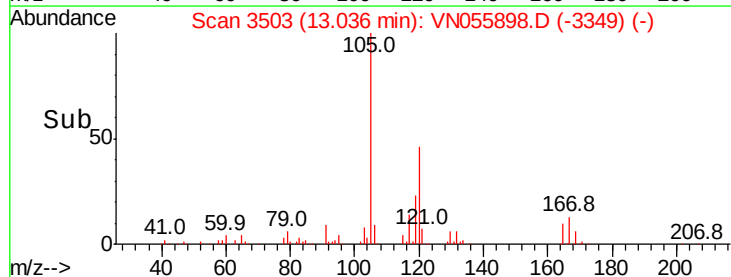
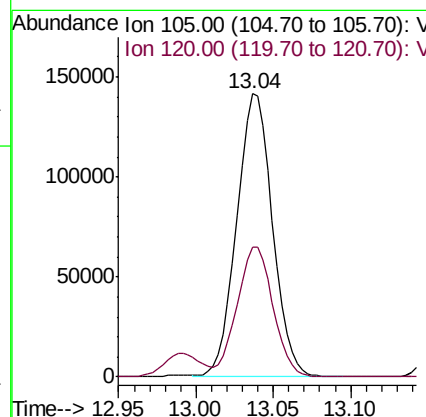
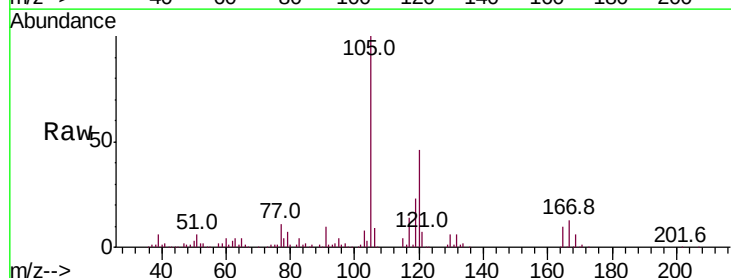
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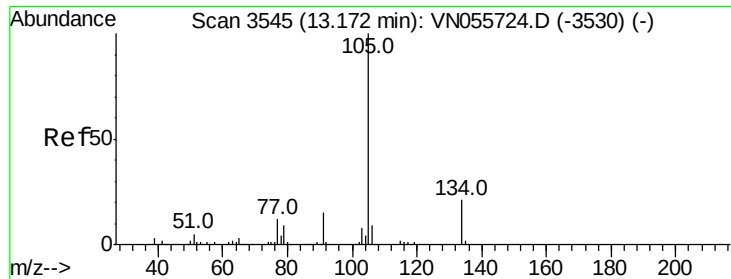
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#80
1,2,4-Trimethylbenzene
Concen: 19.692 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	226742		
120	46.2	0.0	93.6	





#81

sec-Butylbenzene

Concen: 20.513 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:105 Resp: 265764

Ion Ratio Lower Upper

105 100

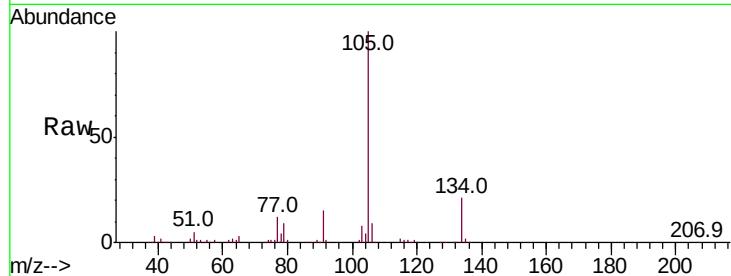
134 20.1 0.0 41.4

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

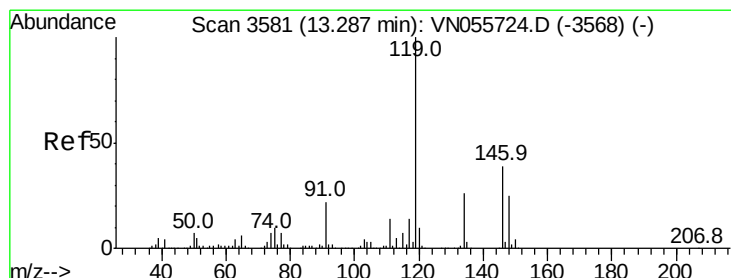
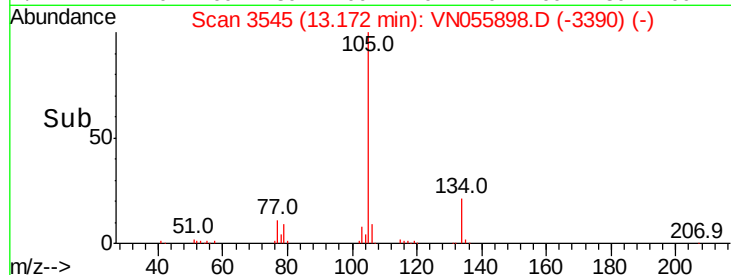
150000

100000

50000

0

Time-->



#82

p-Isopropyltoluene

Concen: 19.873 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

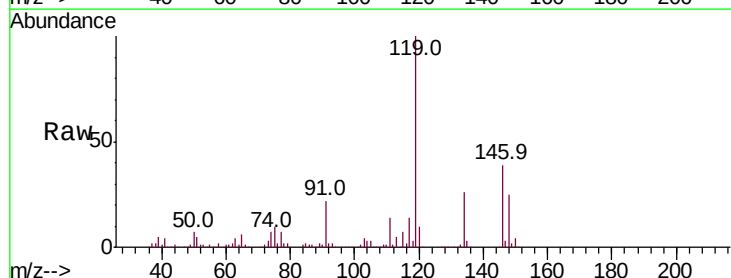
Tgt Ion:119 Resp: 236954

Ion Ratio Lower Upper

119 100

134 26.3 0.0 52.0

91 21.6 0.0 44.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

200000

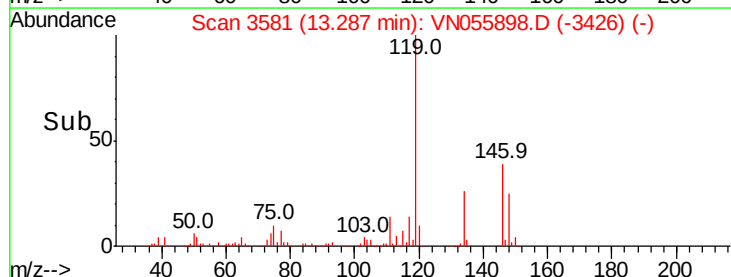
150000

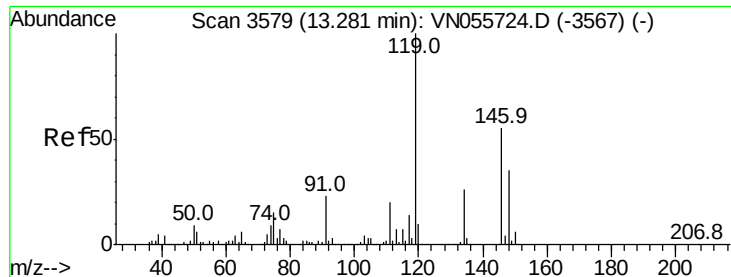
100000

50000

0

Time-->





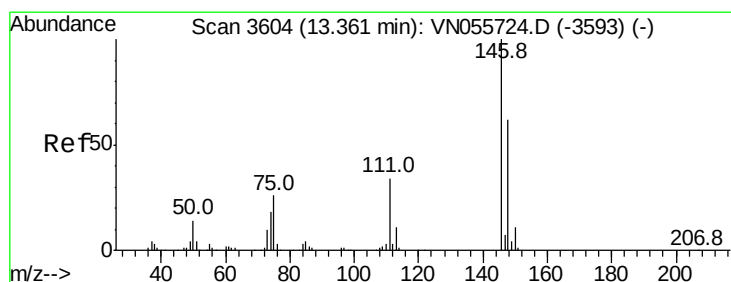
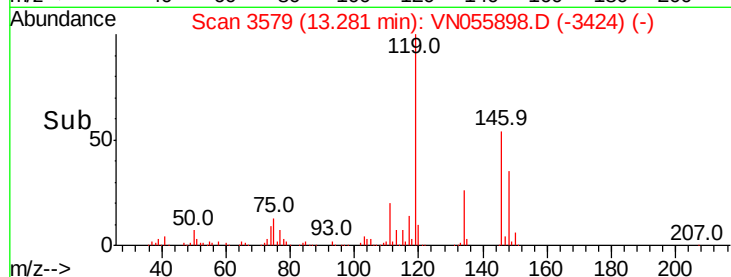
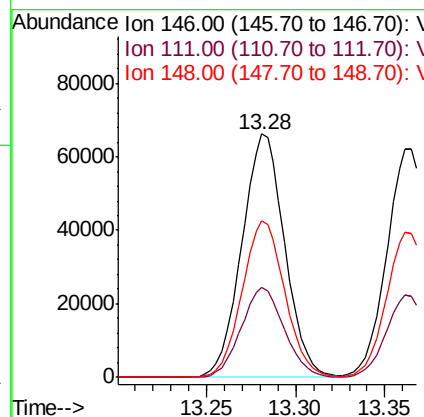
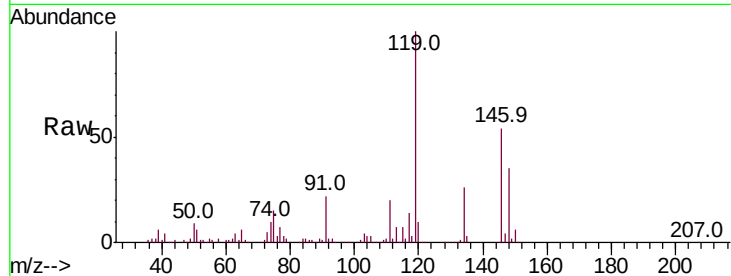
#83
1,3-Dichlorobenzene
Concen: 19.145 ug/l
RT: 13.28 min Scan# 3579
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.6	55.6
148	63.9	32.2	96.6

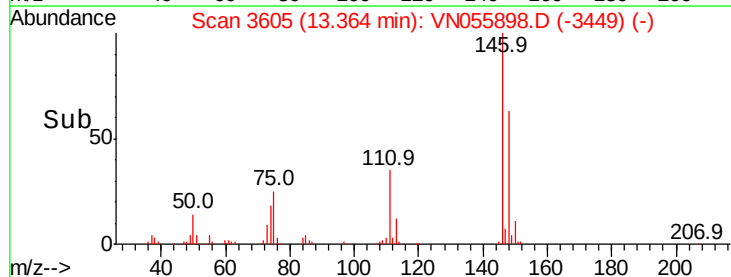
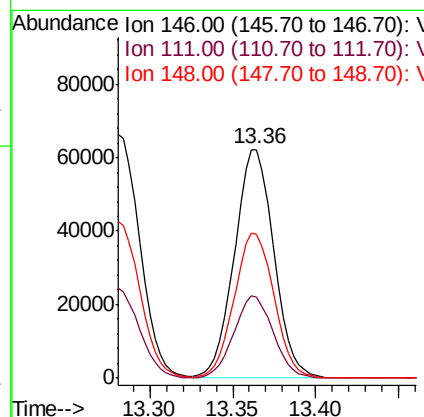
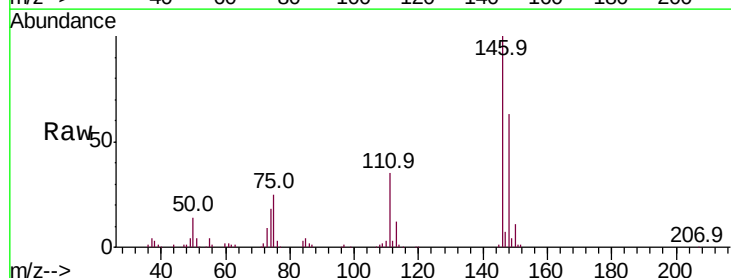
Manual Integrations
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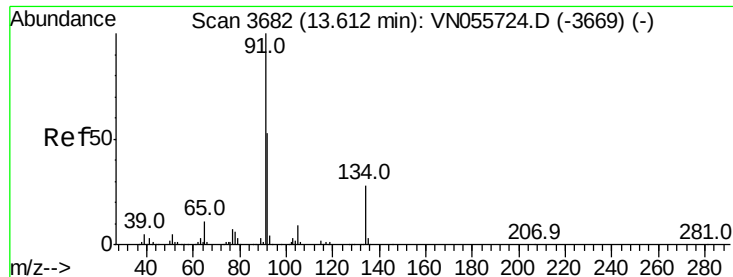
MMDadoda
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#84
1,4-Dichlorobenzene
Concen: 18.594 ug/l
RT: 13.36 min Scan# 3605
Delta R.T. 0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	17.5	52.6
148	64.1	31.8	95.4





#85

n-Butylbenzene

Concen: 18.487 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Instrument :

MSVOA_N

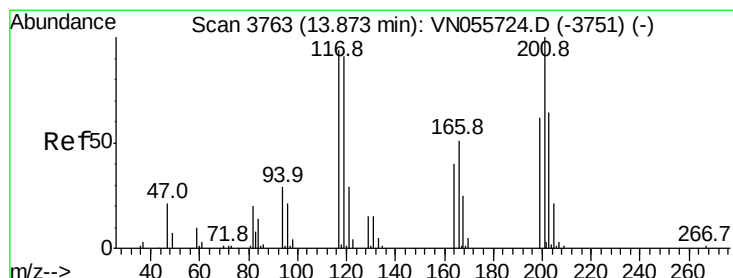
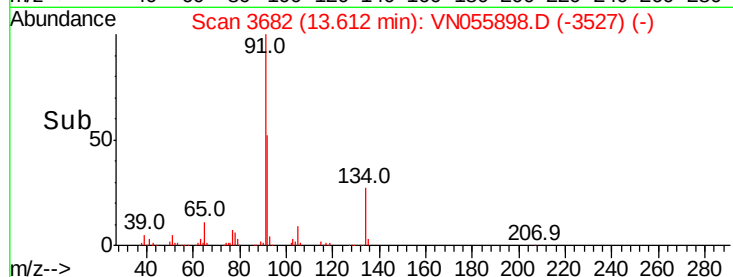
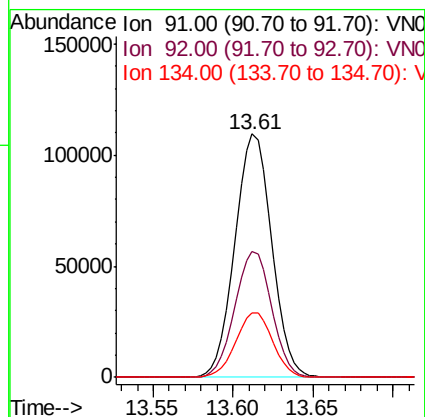
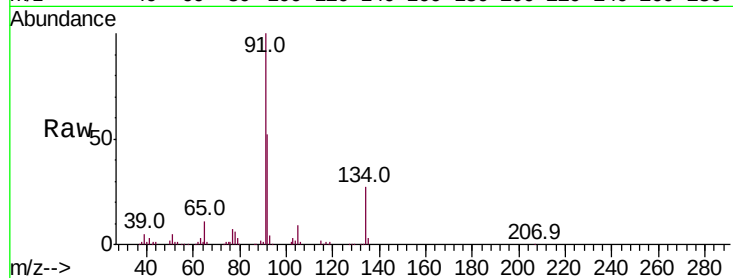
ClientSampleId :

VSTDCCC020

Tot Ion:	91	Resp:	171481
Ion Ratio	Lower	Upper	
91	100		
92	51.8	0.0	106.8
134	26.7	0.0	55.2

Manual Integrations
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#86

Hexachloroethane

Concen: 15.919 ug/l

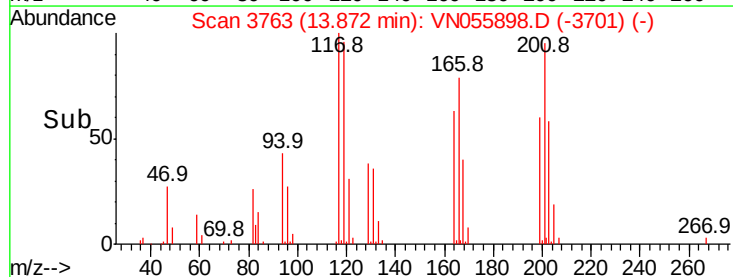
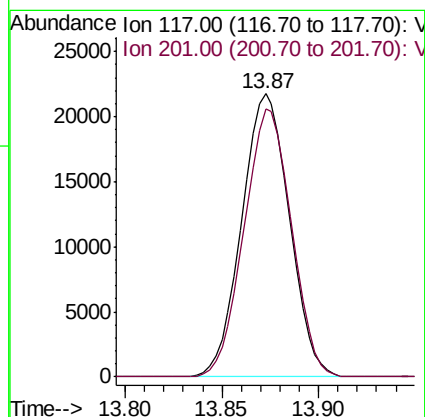
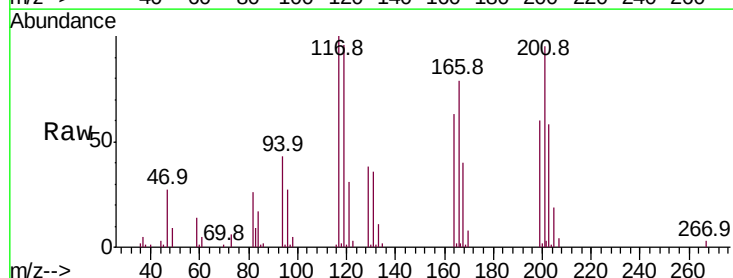
RT: 13.87 min Scan# 3763

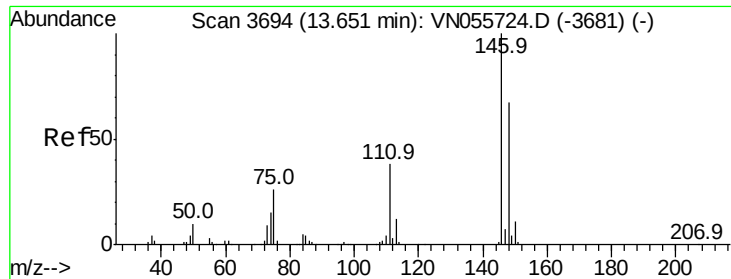
Delta R.T. -0.00 min

Lab File: VN055898.D

Acq: 30 May 2019 14:13

Tgt Ion:	117	Resp:	37333
Ion Ratio	Lower	Upper	
117	100		
201	93.8	52.5	157.6





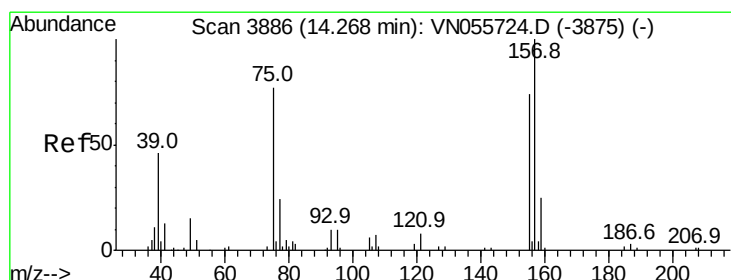
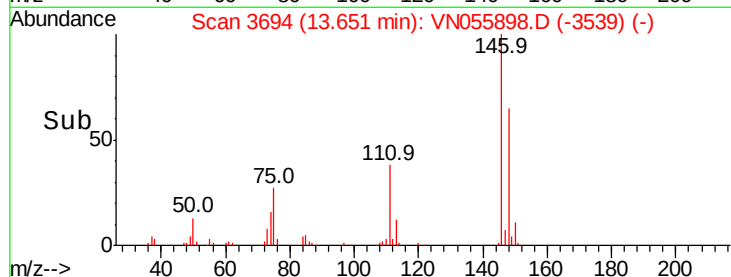
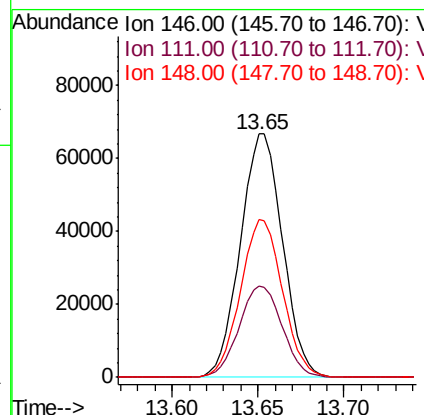
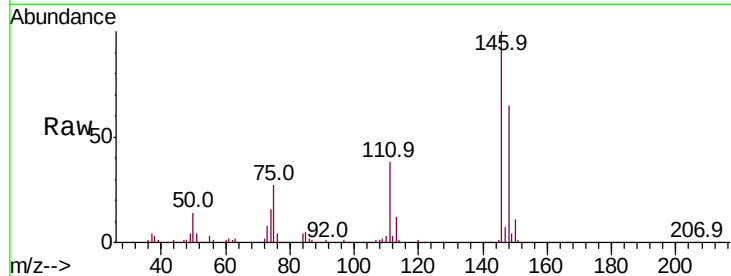
#87
 1,2-Dichlorobenzene
 Concen: 19.395 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.2	57.6
148	64.4	32.7	98.1

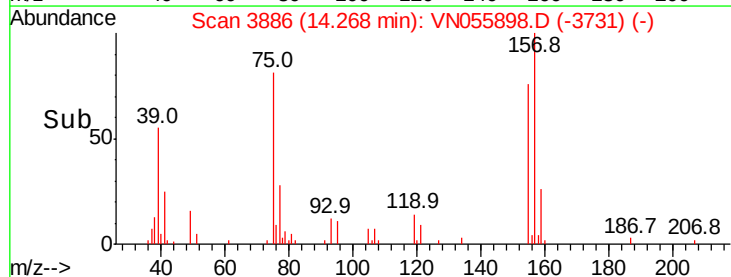
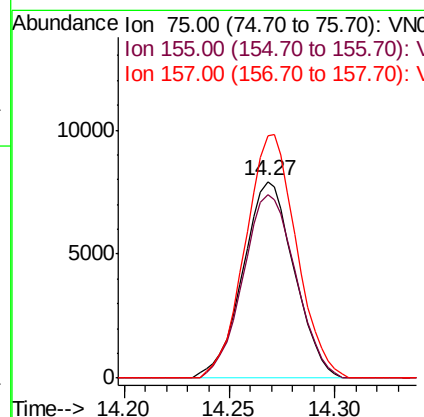
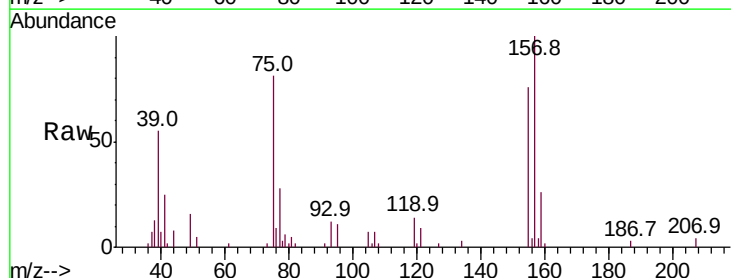
Manual Integrations
 APPROVED

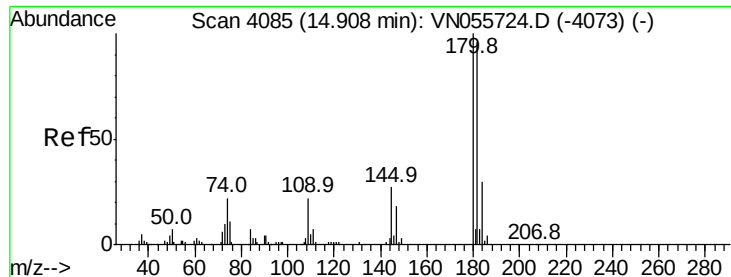
MMDadoda
 5/31/2019 9:38:27 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 16.397 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.8	78.4	117.6
157	123.4	105.0	157.4





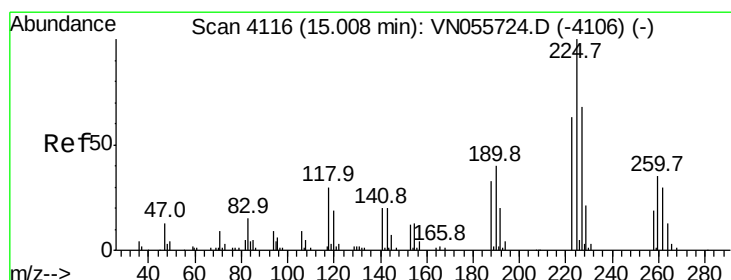
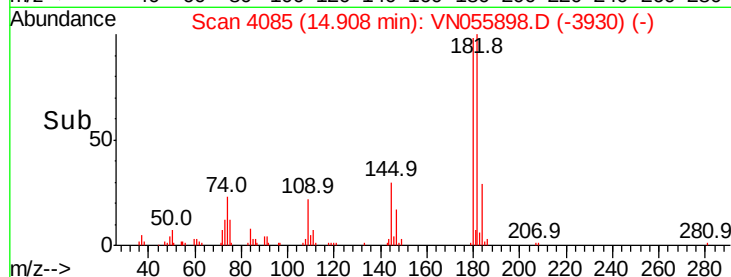
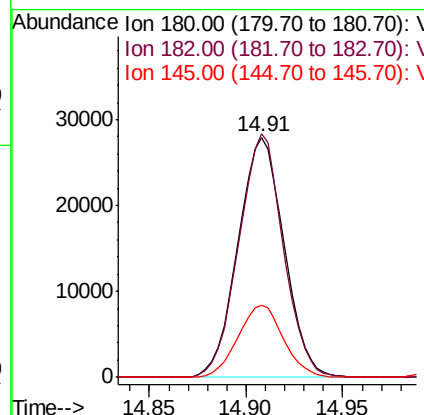
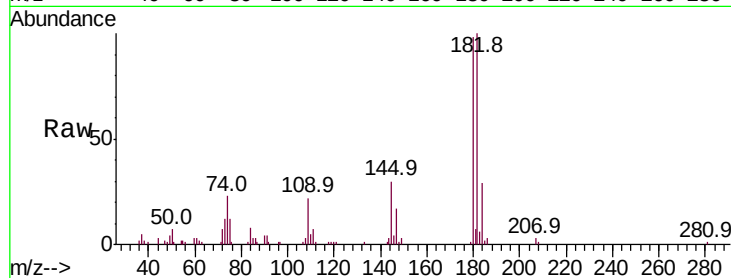
#89
 1,2,4-Trichlorobenzene
 Concen: 14.622 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	46250		
182	98.1	76.1	114.1	
145	29.7	21.8	32.8	

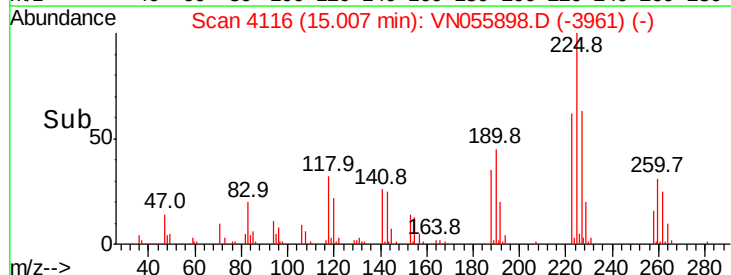
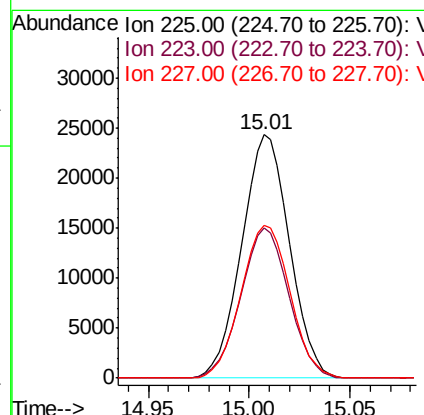
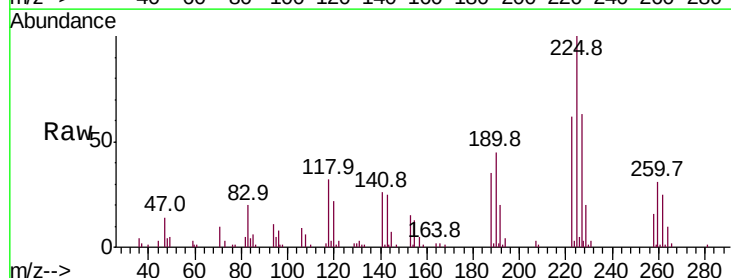
Manual Integrations
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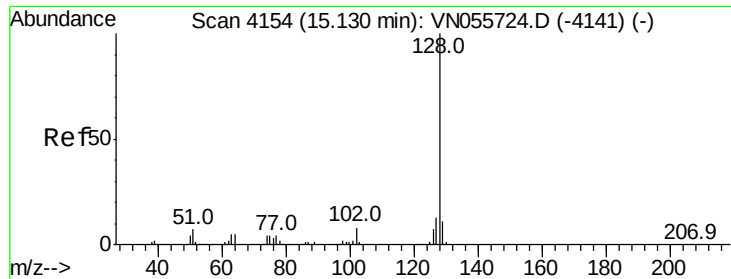
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 5/31/2019 9:38:27 AM



#90
 Hexachlorobutadiene
 Concen: 17.077 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN055898.D
 Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	40304		
223	62.0	0.0	126.0	
227	64.5	0.0	133.0	





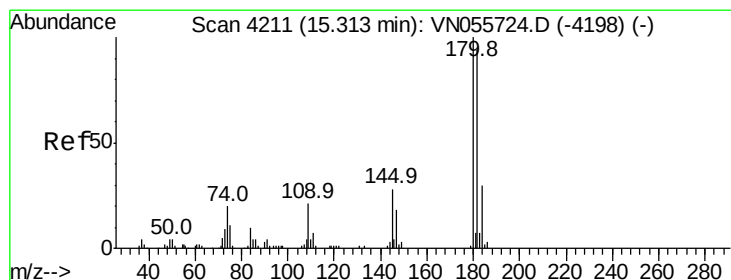
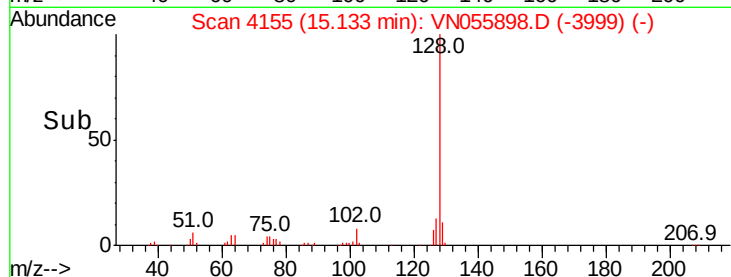
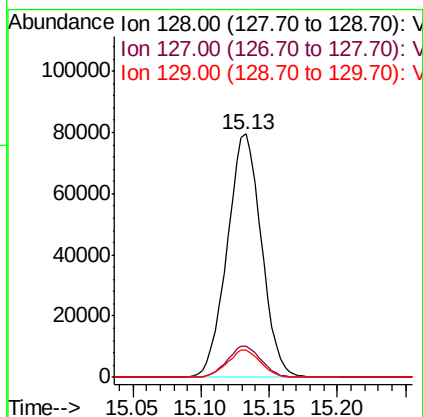
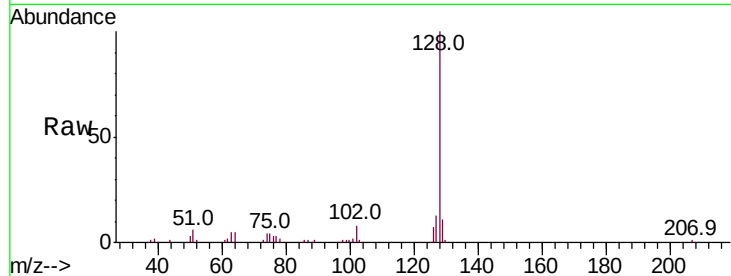
#91
Naphthalene
Concen: 16.033 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
127	12.7	10.0	15.0	
129	10.9	8.7	13.1	

Manual Integrations
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5/31/2019 9:38:27 AM



#92
1,2,3-Trichlorobenzene
Concen: 16.359 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN055898.D
Acq: 30 May 2019 14:13

Tgt Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.1	0.0	188.6	
145	29.8	0.0	56.8	

