

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055741.D
 Acq On : 23 May 2019 1:17
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:30:05 PM

Quant Time: May 23 07:01:33 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	57740	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	309006	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	270948	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	113388	30.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.13%
60) 4-Bromofluorobenzene	12.40	95	121517	28.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.10%
63) Toluene-d8	10.09	98	373808	30.19	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	47161	18.629 ug/l	98
3) Chloromethane	2.06	50	70529	19.586 ug/l	97
4) Vinyl Chloride	2.19	62	73085	19.886 ug/l	99
5) Bromomethane	2.54	94	49917	23.198 ug/l	97
6) Chloroethane	2.69	64	45830	21.346 ug/l	98
7) Trichlorofluoromethane	3.01	101	93759	20.335 ug/l	98
8) Diethyl Ether	3.40	74	42241	20.840 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	55930	19.198 ug/l	99
10) 1,1-Dichloroethene	3.72	96	60351	19.802 ug/l	99
11) Methyl Iodide	3.94	142	84031	19.328 ug/l	99
12) Methyl Acetate	4.32	43	69280	18.587 ug/l	98
13) Acrolein	3.60	56	46432	89.652 ug/l	99
14) Acrylonitrile	4.99	53	164405	96.744 ug/l	100
15) Acetone	3.82	58	43277	82.000 ug/l	96
16) Carbon Disulfide	4.04	76	170272	19.486 ug/l	99
17) Allyl chloride	4.31	41	102836	18.735 ug/l	97
18) Methylene Chloride	4.55	84	70489	20.195 ug/l	97
19) trans-1,2-Dichloroethene	5.03	96	64521	19.680 ug/l	96
20) Diisopropyl ether	5.96	45	204454	19.201 ug/l	95
21) 1,1-Dichloroethane	5.84	63	118802	19.741 ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	76699	20.059 ug/l	95
23) tert-Butyl Alcohol	4.81	59	71837	96.254 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	206222	19.942 ug/l	99
25) Chloroform	7.37	83	121534	20.447 ug/l	99
26) Cyclohexane	7.65	56	106089	19.109 ug/l	# 97
29) 1,1-Dichloropropene	7.79	75	86436	19.981 ug/l	98
30) 2-Butanone	6.84	43	217169	94.189 ug/l	99
31) 2,2-Dichloropropane	6.82	77	81177	16.126 ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	104776	20.435 ug/l	99
33) Carbon Tetrachloride	7.77	117	93917	20.476 ug/l	98
34) Benzene	8.04	78	271877	20.357 ug/l	99
35) Methacrylonitrile	7.18	41	40803	19.173 ug/l	97
36) 1,2-Dichloroethane	8.12	62	89632	20.537 ug/l	99
37) Trichloroethene	8.83	130	75225	20.188 ug/l	97
38) Methylcyclohexane	9.08	83	104707	19.105 ug/l	98
39) 1,2-Dichloropropane	9.12	63	72536	20.204 ug/l	100
40) Dibromomethane	9.21	93	48387	20.871 ug/l	94

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 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)
41) Bromodichloromethane	9.40	83	96732	20.358	ug/l	99
42) Vinyl Acetate	5.90	43	884046	98.755	ug/l	99
43) Ethyl Acetate	6.93	43	93158	20.555	ug/l #	100
44) Isopropyl Acetate	8.17	43	146817	19.563	ug/l #	89
45) 1,4-Dioxane	9.20	88	28289	400.677	ug/l	98
46) Methyl methacrylate	9.20	41	67683	19.330	ug/l	97
47) n-amyl Acetate	12.07	43	114888	18.508	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	97107	18.514	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	110250	19.204	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	68382	20.261	ug/l	98
51) Ethyl methacrylate	10.43	69	106158	19.514	ug/l	99
52) 1,3-Dichloropropane	10.71	76	112063	20.144	ug/l	100
53) Dibromochloromethane	10.90	129	80911	20.294	ug/l	97
54) 1,2-Dibromoethane	11.00	107	70970	20.321	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	194906	92.083	ug/l	99
56) Bromoform	12.13	173	60874	18.613	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	442950	98.753	ug/l	99
59) 2-Hexanone	10.75	43	302877	94.452	ug/l	99
61) Tetrachloroethene	10.63	164	76694	20.910	ug/l	96
62) Toluene	10.16	91	299357	20.546	ug/l	100
64) Chlorobenzene	11.43	112	178785	20.228	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	72715	20.419	ug/l	99
66) Ethyl Benzene	11.51	91	320449	20.129	ug/l	100
67) m/p-Xylenes	11.62	106	244940	40.502	ug/l	99
68) o-Xylene	11.95	106	121880	20.366	ug/l	99
69) Styrene	11.96	104	194987	19.749	ug/l	99
70) Isopropylbenzene	12.25	105	319126	20.381	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	98387	20.417	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	86042m	20.746	ug/l	
73) Bromobenzene	12.53	156	81636	19.707	ug/l	99
74) n-propylbenzene	12.59	91	330611	19.577	ug/l	99
75) 2-Chlorotoluene	12.67	91	207891	20.153	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	260428	20.122	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	27956	16.970	ug/l	98
78) 4-Chlorotoluene	12.77	91	190301	19.465	ug/l	100
79) tert-butylbenzene	12.99	119	231761	20.368	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	258091	20.087	ug/l	99
81) sec-Butylbenzene	13.17	105	288301	19.942	ug/l	100
82) p-Isopropyltoluene	13.29	119	261390	19.646	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	124997	19.249	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	114744	18.554	ug/l	99
85) n-Butylbenzene	13.61	91	191844	18.534	ug/l	100
86) Hexachloroethane	13.87	117	51793	19.791	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	128101	19.591	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	17334	18.979	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	57612	16.323	ug/l	99
90) Hexachlorobutadiene	15.01	225	47864	18.175	ug/l	99
91) Naphthalene	15.13	128	165351	17.146	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	63661	17.258	ug/l	97

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ALS Vial : 23 Sample Multiplier: 1

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ClientSampleId :
VSTDCCC020EC

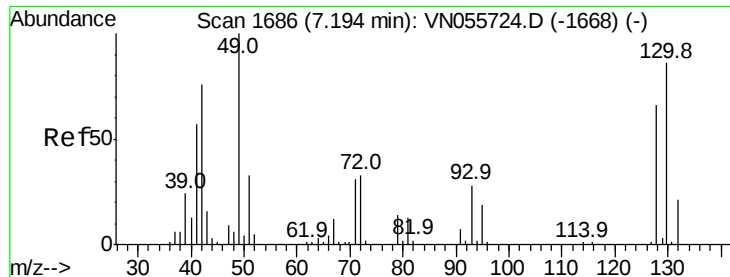
Manual Integrations
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5/23/2019 12:30:05 PM

Quant Time: May 23 07:01:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
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QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration

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



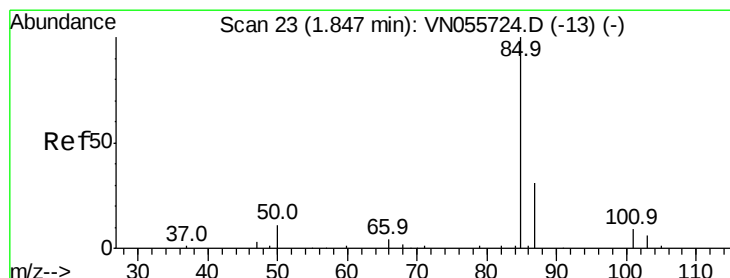
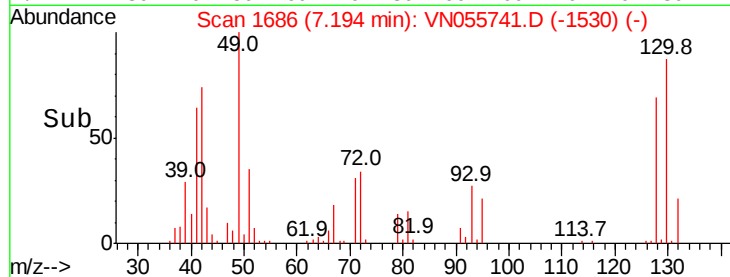
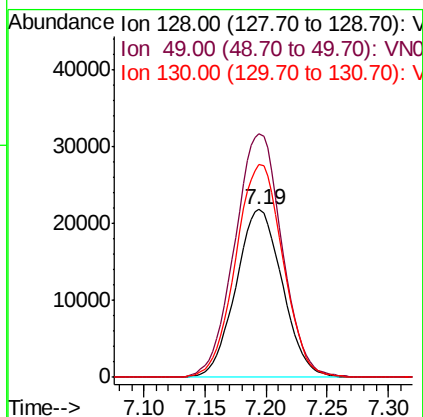
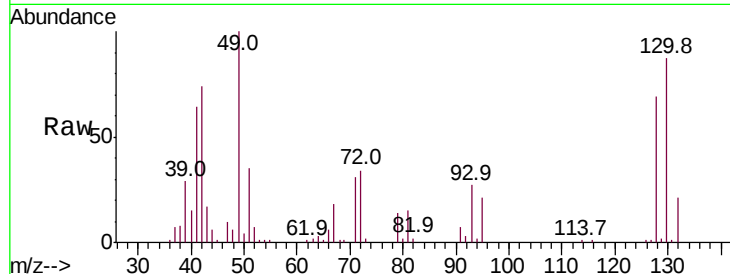
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
49	147.7	0.0	383.2
130	129.4	0.0	326.3

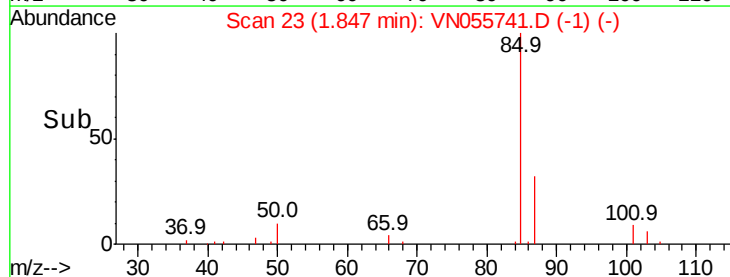
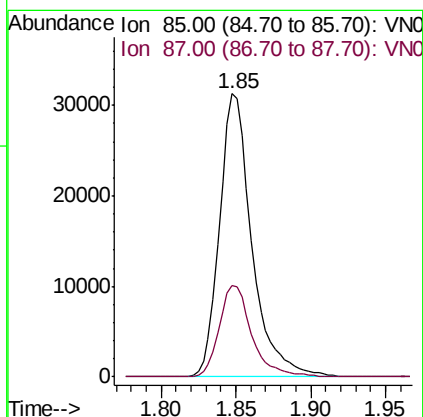
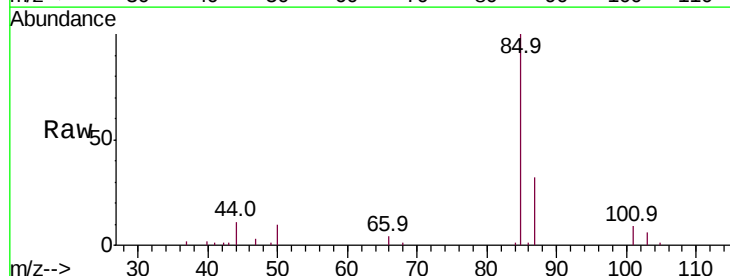
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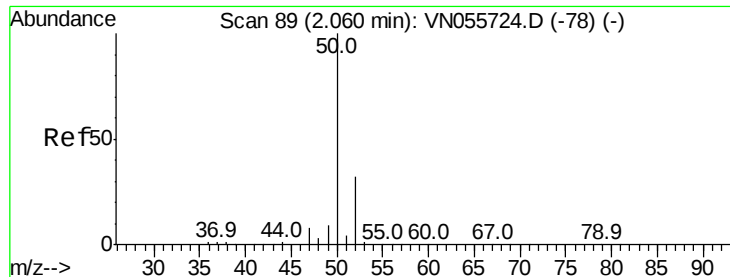
MMDadoda
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#2
 Dichlorodifluoromethane
 Concen: 18.629 ug/l
 RT: 1.85 min Scan# 23
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	15.7	47.0





#3

Chloromethane

Concen: 19.586 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 70529

Ion Ratio Lower Upper

50 100

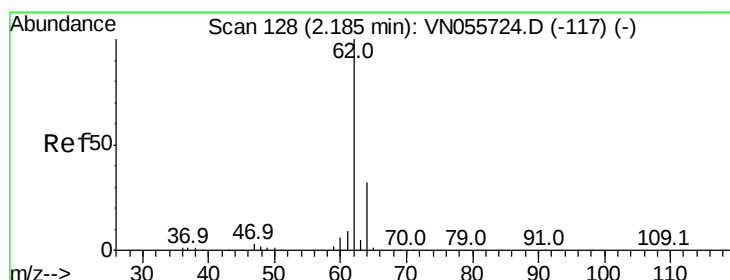
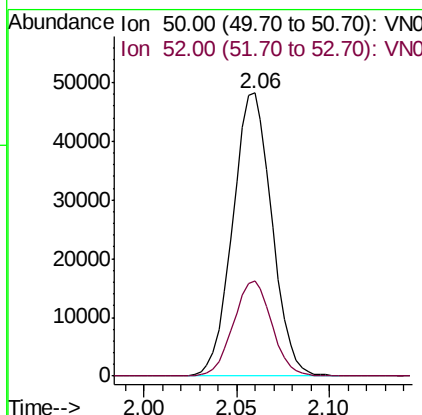
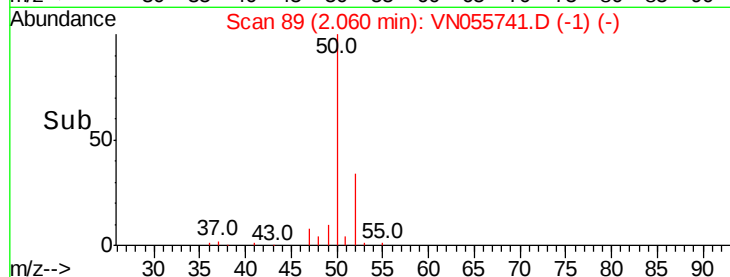
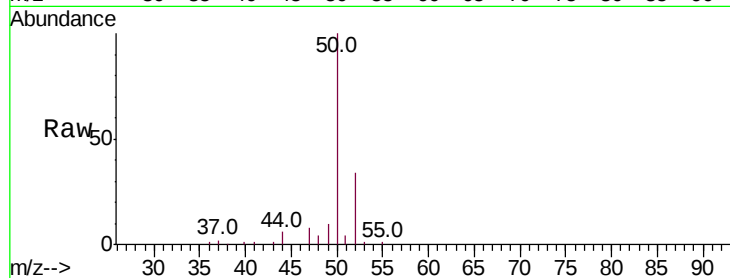
52 33.6 25.4 38.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.886 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055741.D

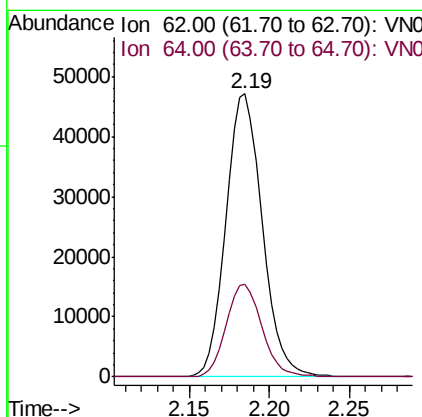
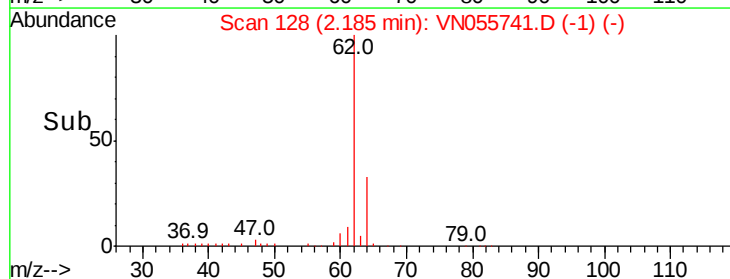
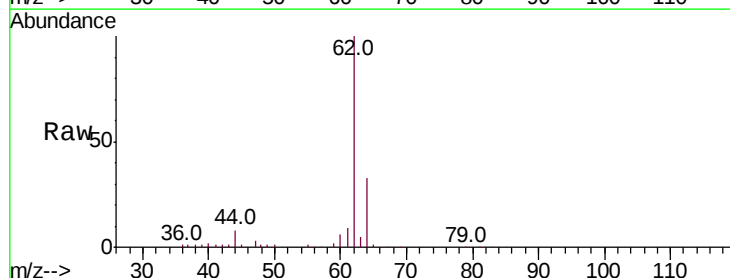
Acq: 23 May 2019 1:17

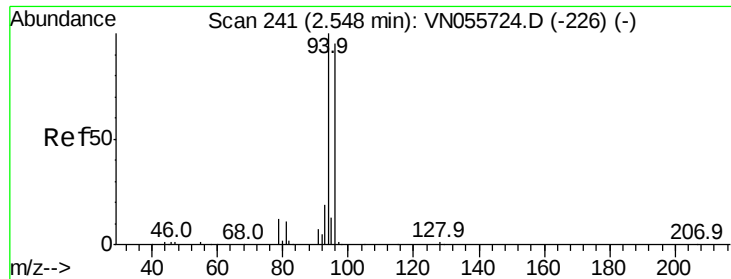
Tgt Ion: 62 Resp: 73085

Ion Ratio Lower Upper

62 100

64 32.8 25.7 38.5





#5

Bromomethane

Concen: 23.198 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 94 Resp: 49917

Ion Ratio Lower Upper

94 100

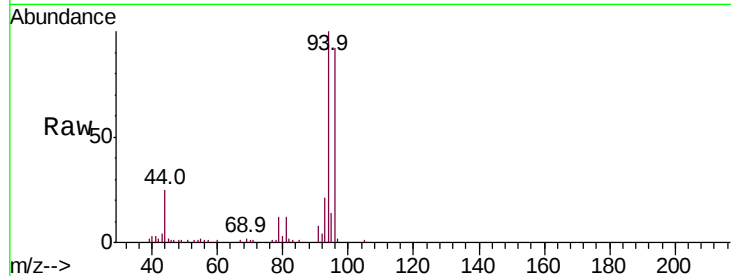
96 91.7 75.8 113.8

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

25000

20000

15000

10000

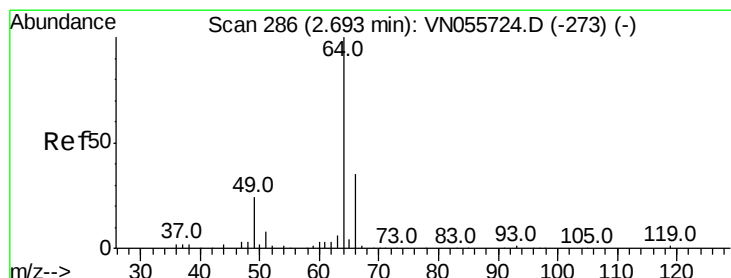
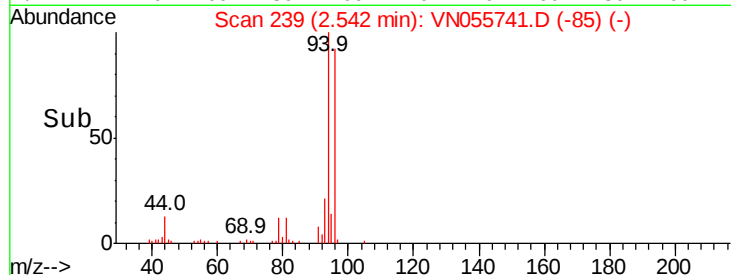
5000

0

2.54

2.50 2.60

Time-->



#6

Chloroethane

Concen: 21.346 ug/l

RT: 2.69 min Scan# 285

Delta R.T. -0.00 min

Lab File: VN055741.D

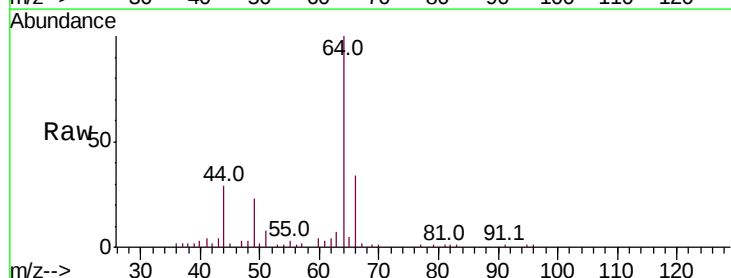
Acq: 23 May 2019 1:17

Tgt Ion: 64 Resp: 45830

Ion Ratio Lower Upper

64 100

66 33.6 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

25000

20000

15000

10000

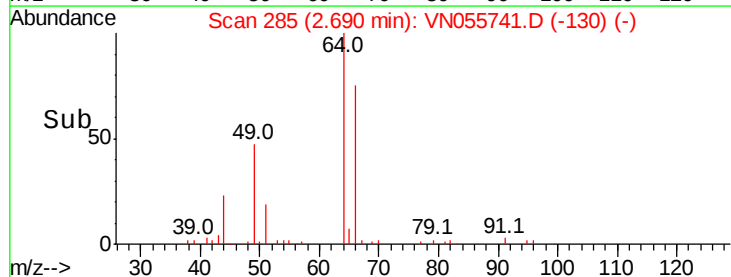
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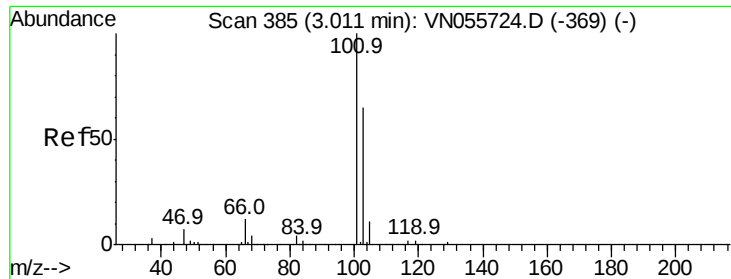
0

2.69

2.60 2.65 2.70 2.75 2.80

Time-->





#7

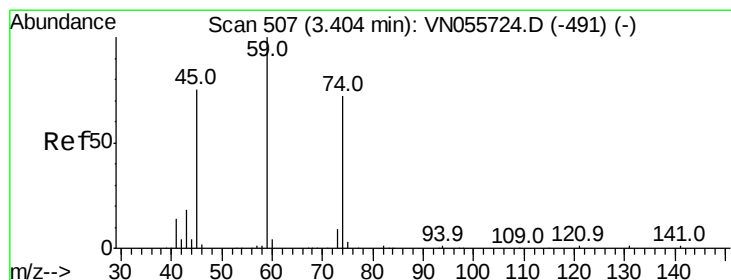
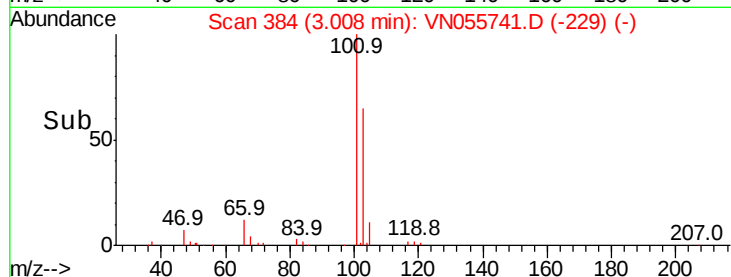
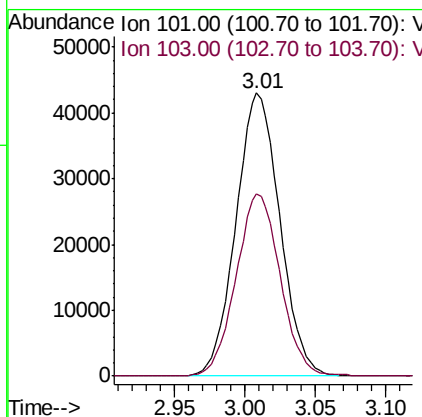
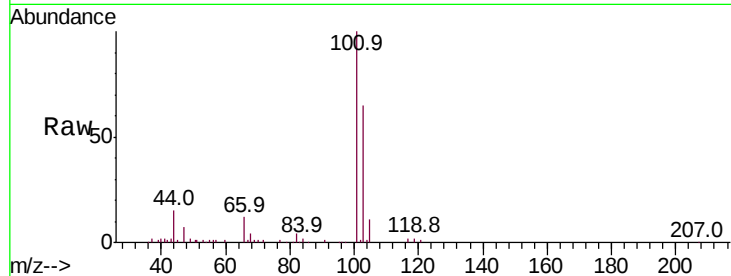
Trichlorofluoromethane
 Concen: 20.335 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. -0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
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 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.5	52.6	78.8

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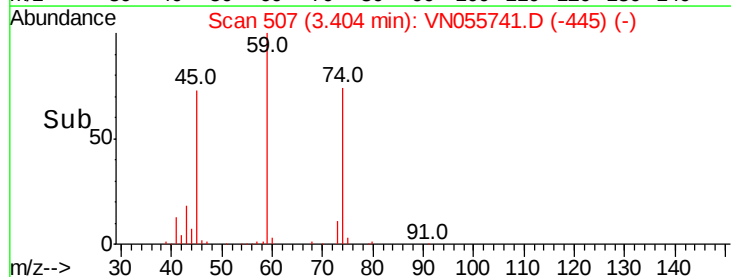
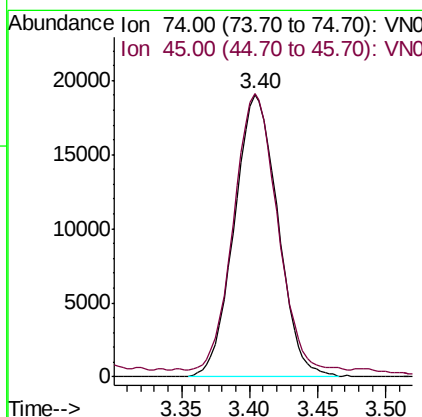
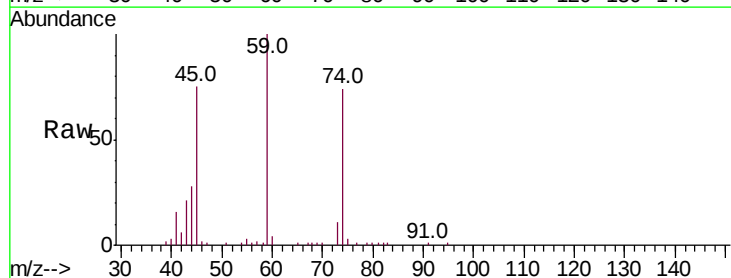
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 5/23/2019 12:30:05 PM

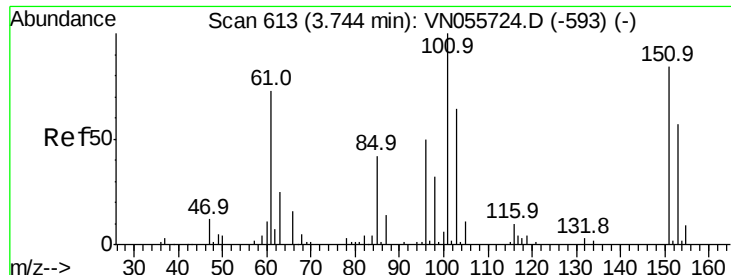


#8

Diethyl Ether
 Concen: 20.840 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.9	20.4	184.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.198 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

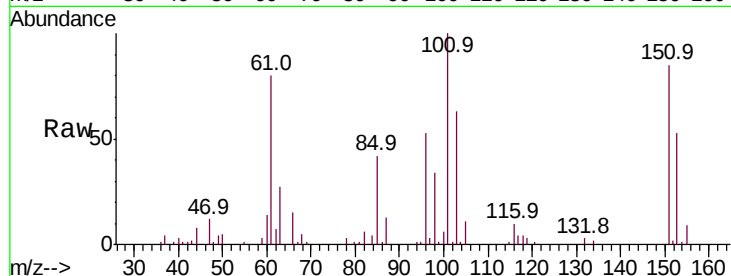
ClientSampleId :

VSTDCCC020EC

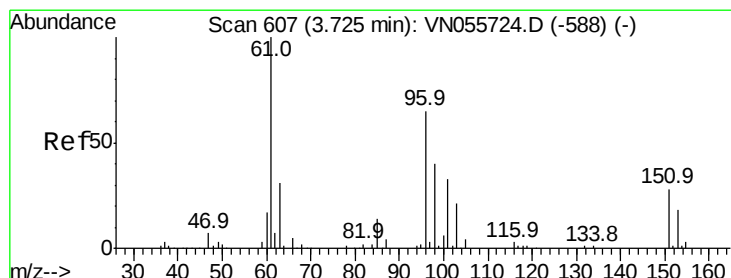
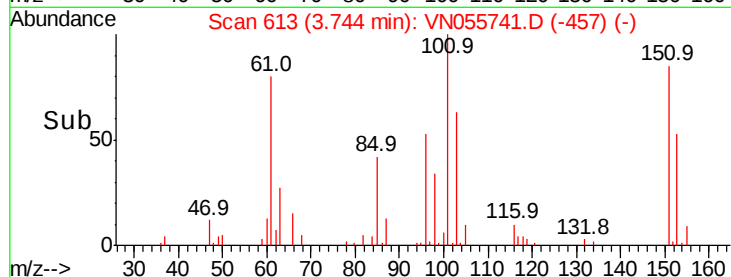
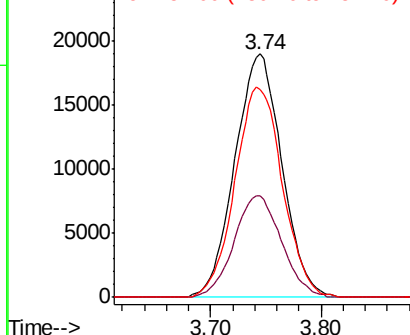
Tot Ion:	101	Resp:	55930
Ion Ratio	Lower	Upper	
101	100		
85	42.2	0.0	86.6
151	87.3	0.0	172.2

Manual Integrations
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Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VN
Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 19.802 ug/l

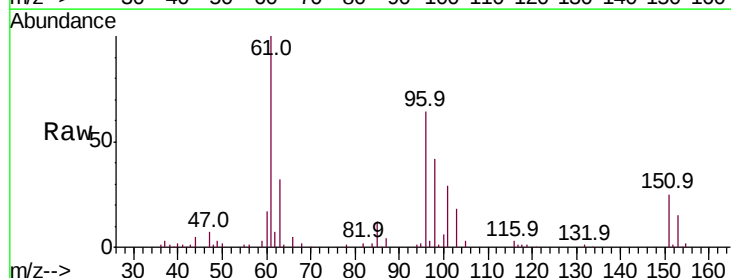
RT: 3.72 min Scan# 606

Delta R.T. -0.00 min

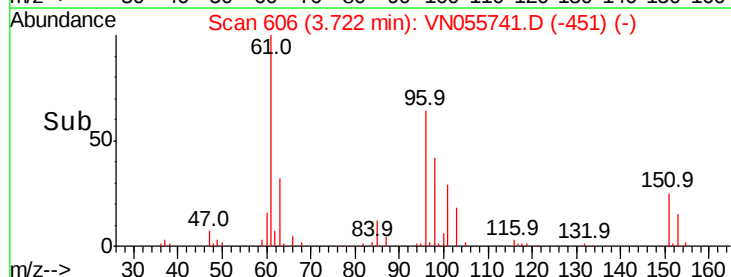
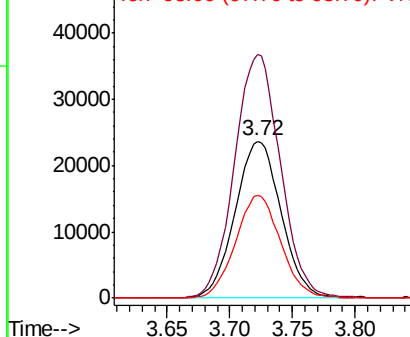
Lab File: VN055741.D

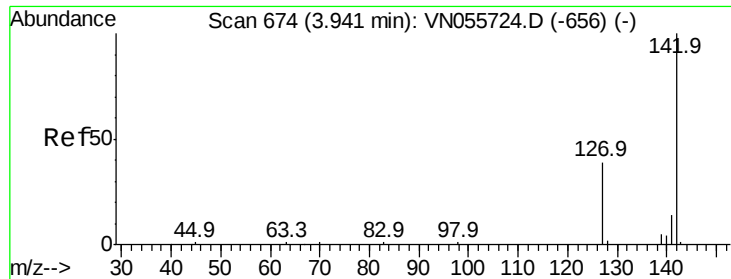
Acq: 23 May 2019 1:17

Tgt Ion:	96	Resp:	60351
Ion Ratio	Lower	Upper	
96	100		
61	154.6	123.7	185.5
98	65.9	50.0	75.0



Abundance Ion 96.00 (95.70 to 96.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 98.00 (97.70 to 98.70): VNO





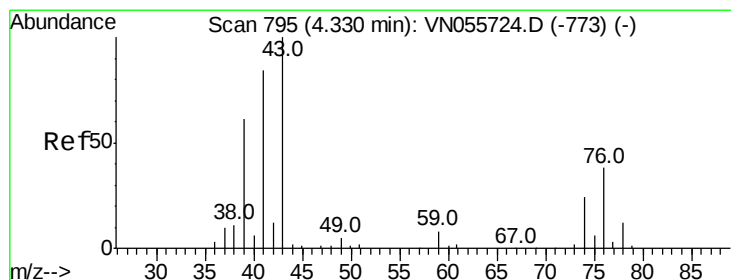
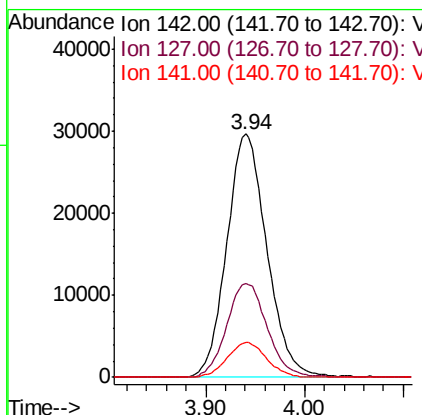
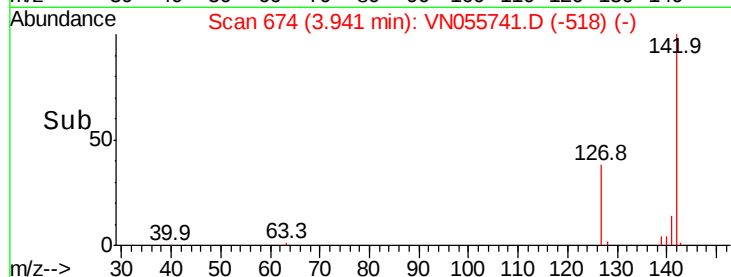
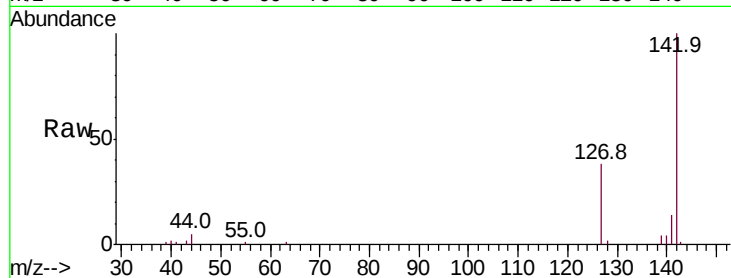
#11
Methyl Iodide
Concen: 19.328 ug/l
RT: 3.94 min Scan# 674
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	38.3	19.6	58.7
141	14.5	6.9	20.6

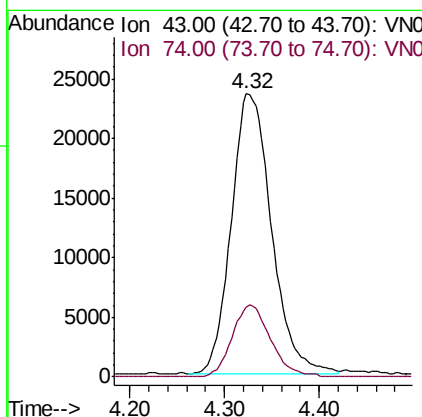
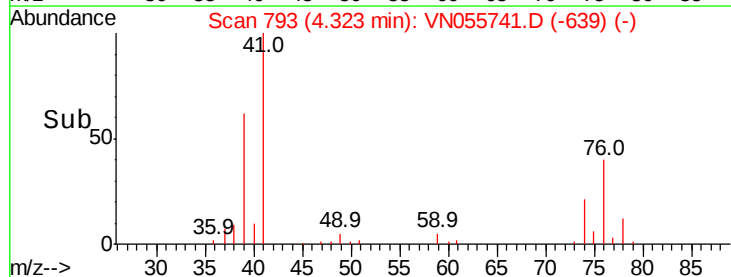
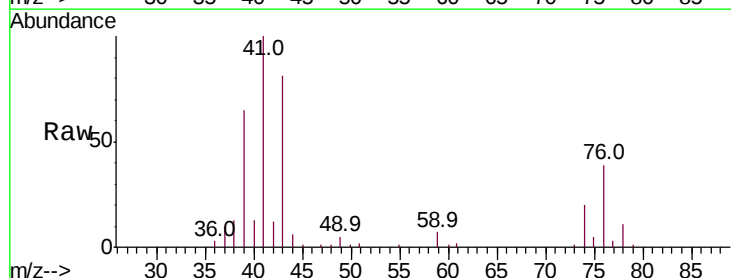
Manual Integrations
APPROVED

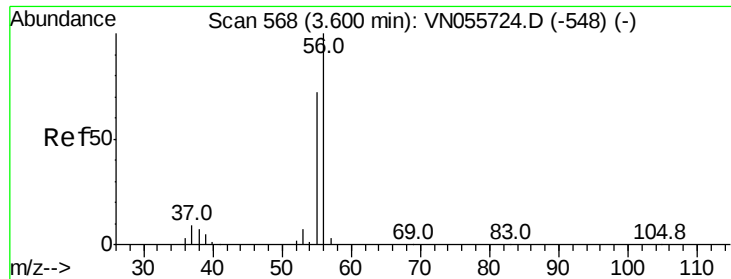
MMDadoda
5/23/2019 12:30:05 PM



#12
Methyl Acetate
Concen: 18.587 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.01 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.1	19.2	28.8





#13

Acrolein

Concen: 89.652 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 46432

Ion Ratio Lower Upper

56 100

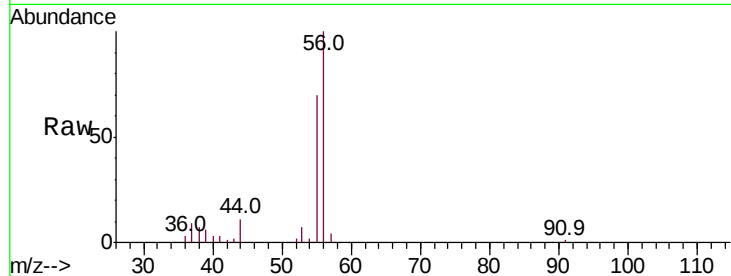
55 70.3 57.0 85.6

Manual Integrations

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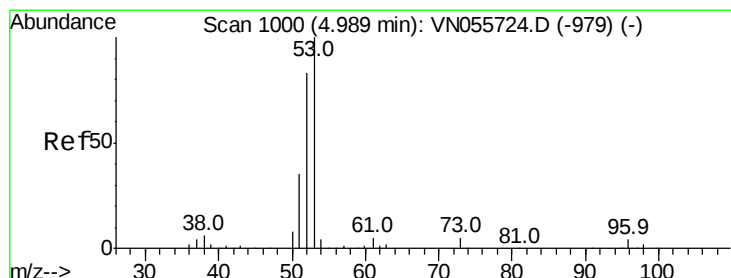
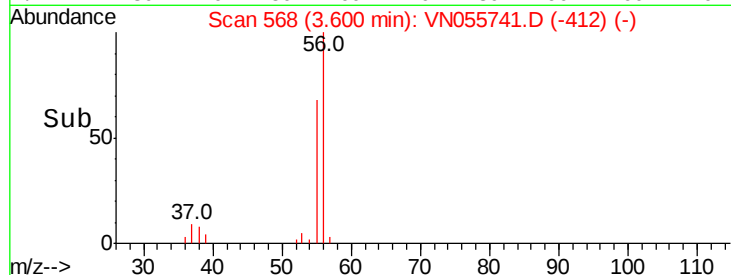
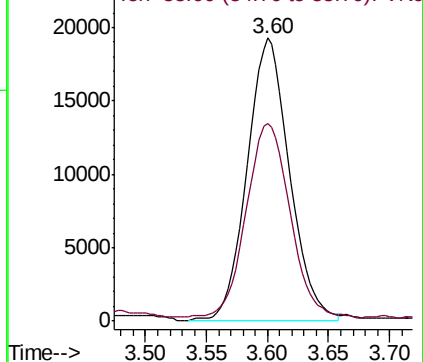
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 96.744 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

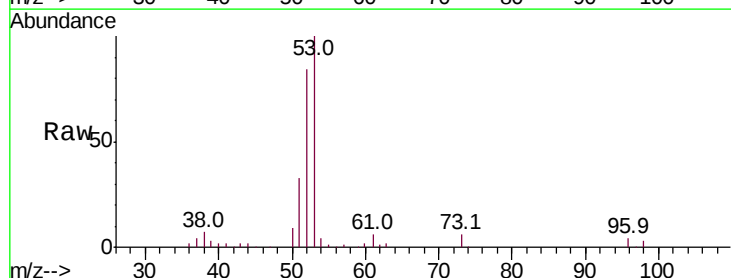
Tgt Ion: 53 Resp: 164405

Ion Ratio Lower Upper

53 100

52 82.9 41.1 123.4

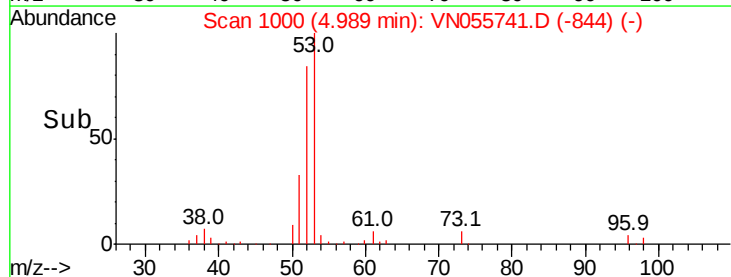
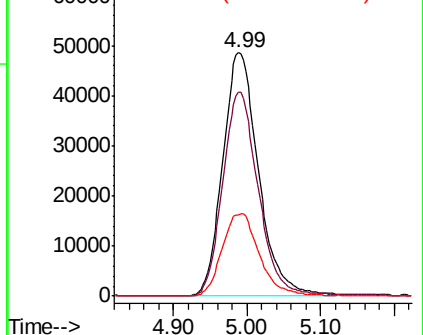
51 35.2 17.5 52.6

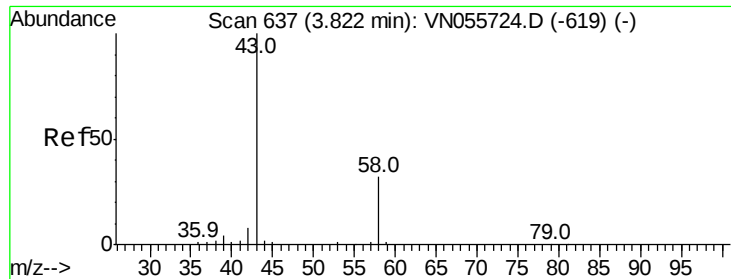


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 82.000 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 43277

Ion Ratio Lower Upper

58 100

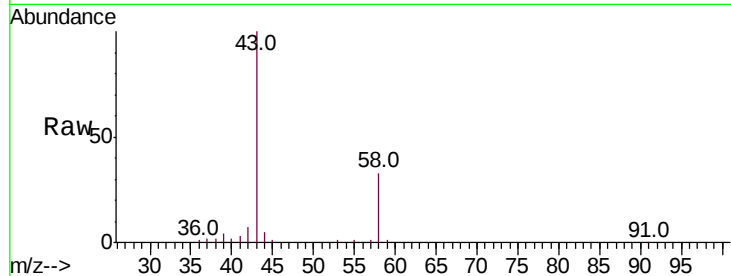
43 302.5 248.8 373.2

Manual Integrations

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Abundance Ion 58.00 (57.70 to 58.70): VN055724.D (-619) (-)

Ion 43.00 (42.70 to 43.70): VN055724.D (-619) (-)

60000

50000

40000

30000

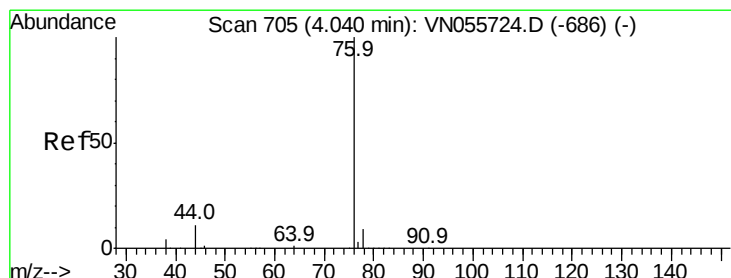
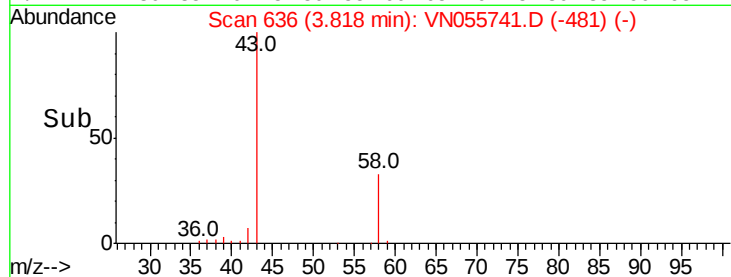
20000

10000

0

3.75 3.80 3.85 3.90

Time-->



#16

Carbon Disulfide

Concen: 19.486 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN055741.D

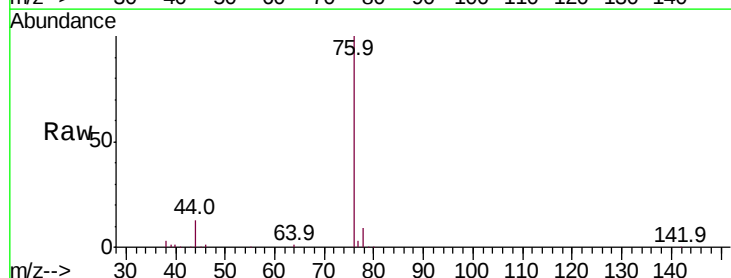
Acq: 23 May 2019 1:17

Tgt Ion: 76 Resp: 170272

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN055724.D (-686) (-)

Ion 78.00 (77.70 to 78.70): VN055724.D (-686) (-)

60000

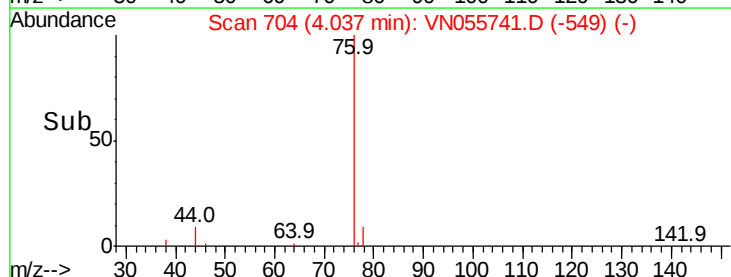
40000

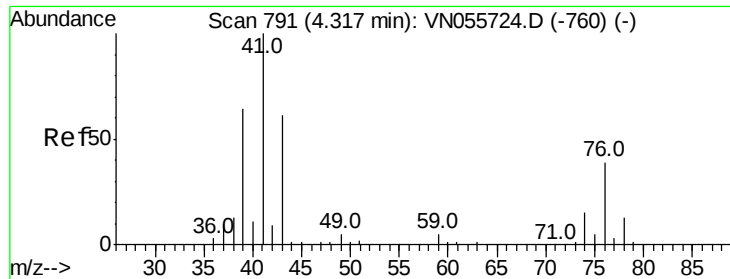
20000

0

4.00 4.10

Time-->





#17

Allvl chloride

Concen: 18.735 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

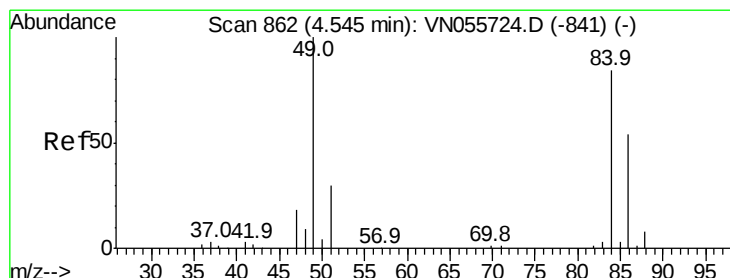
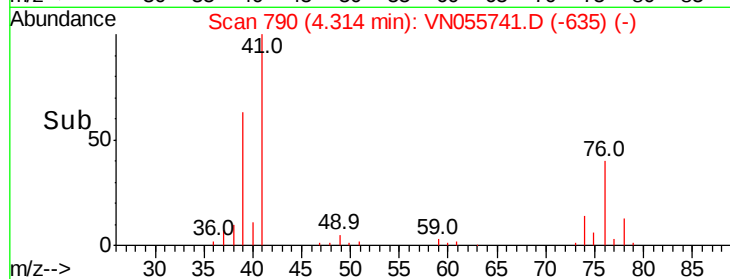
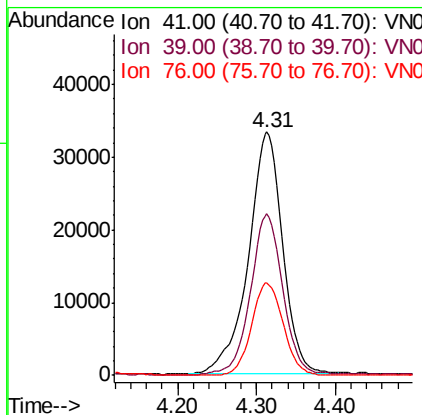
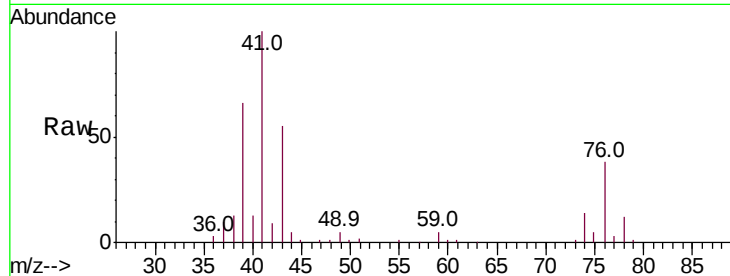
ClientSampleId :

VSTDCCC020EC

Tot Ion:	41	Resp:	102836
Ion Ratio	Lower	Upper	
41	100		
39	66.8	31.8	95.3
76	38.4	19.3	57.9

Manual Integrations
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#18

Methylene Chloride

Concen: 20.195 ug/l

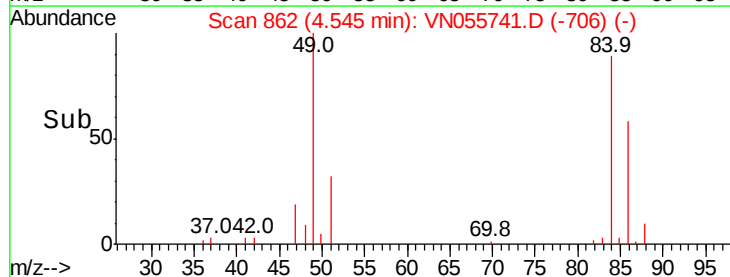
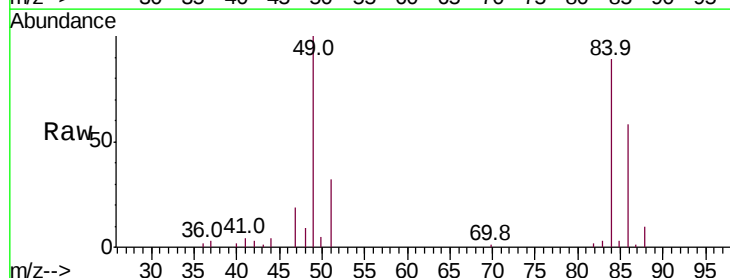
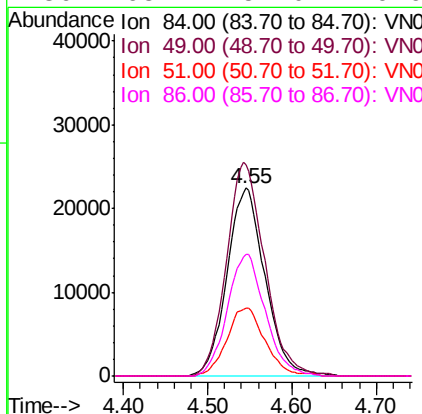
RT: 4.55 min Scan# 862

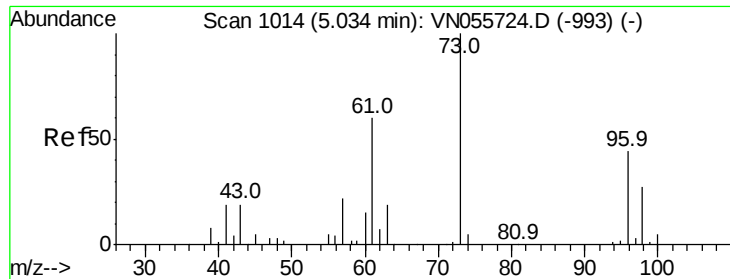
Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Tgt Ion:	84	Resp:	70489
Ion Ratio	Lower	Upper	
84	100		
49	112.8	94.7	142.1
51	36.3	28.6	43.0
86	65.1	51.0	76.6





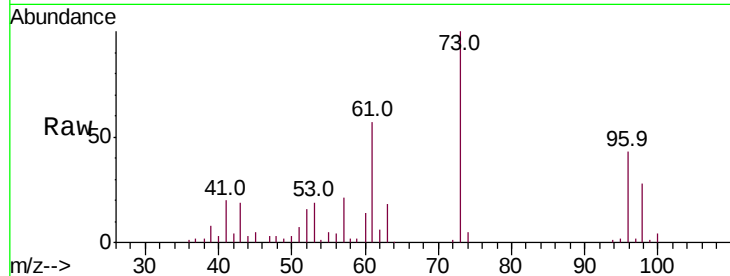
#19
trans-1,2-Dichloroethene
Concen: 19.680 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.1	108.5	162.7
98	65.4	49.4	74.2

Manual Integrations
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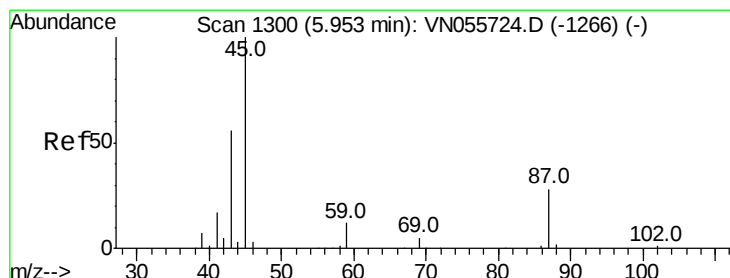
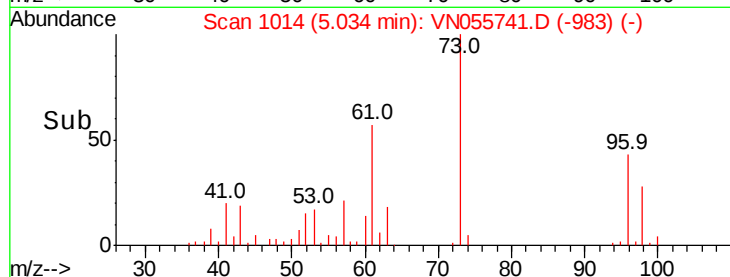
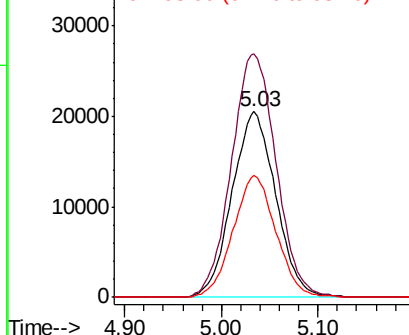


Abundance

Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#20
Diisopropyl ether
Concen: 19.201 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.4	48.6	73.0
87	27.5	22.6	34.0
59	11.2	9.4	14.2

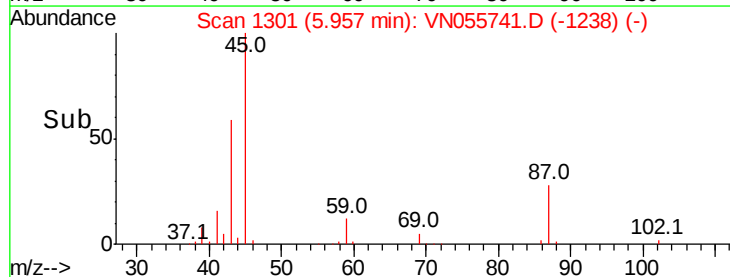
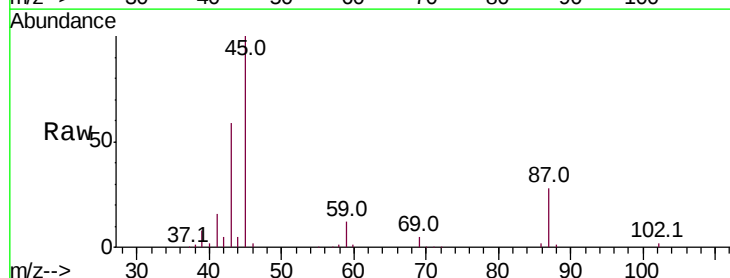
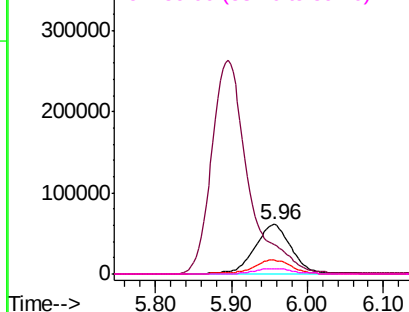
Abundance

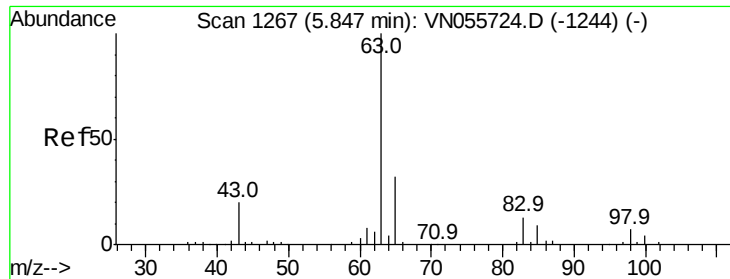
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





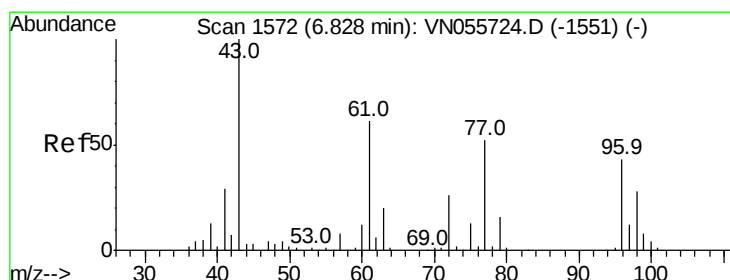
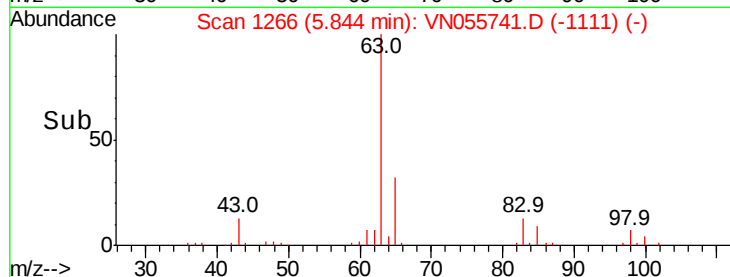
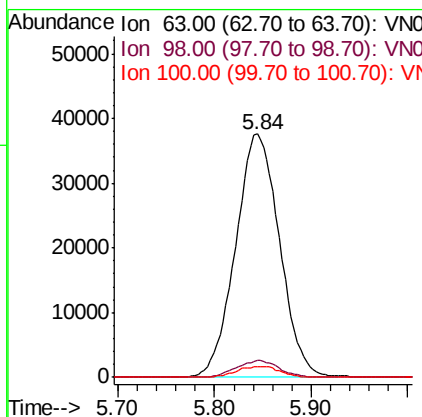
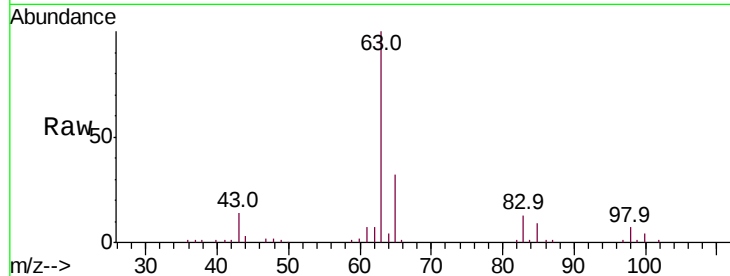
#21
 1,1-Dichloroethane
 Concen: 19.741 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	6.9	3.4	10.2	
100	4.4	2.2	6.6	

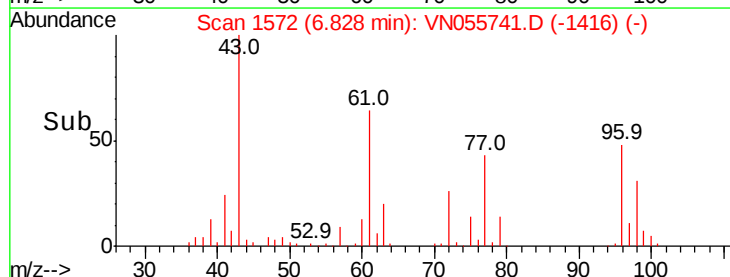
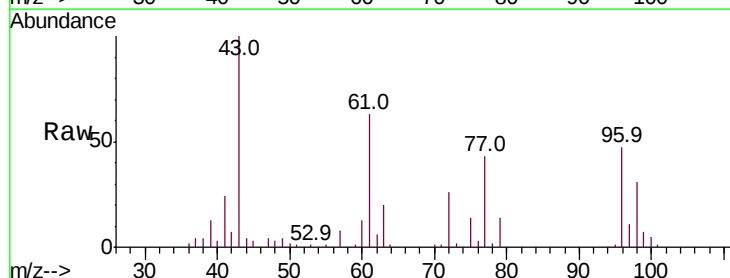
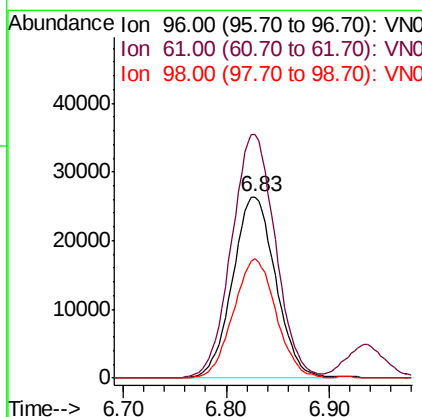
Manual Integrations
 APPROVED

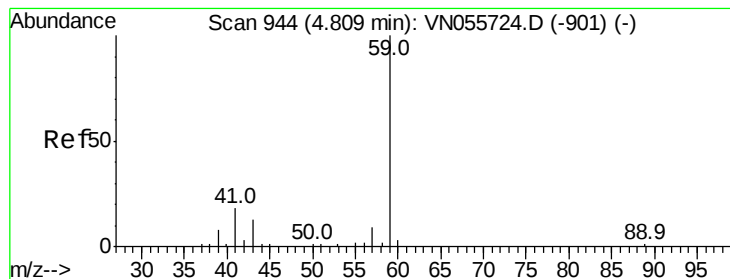
MMDadoda
 5/23/2019 12:30:05 PM



#22
 cis-1,2-Dichloroethene
 Concen: 20.059 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	136.7	115.7	173.5	
98	64.9	51.5	77.3	





#23

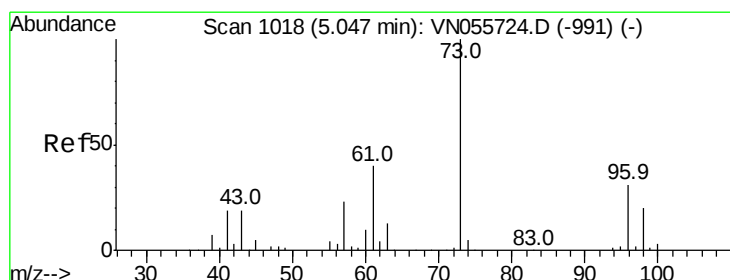
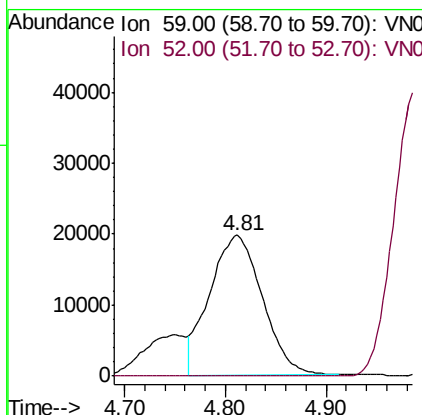
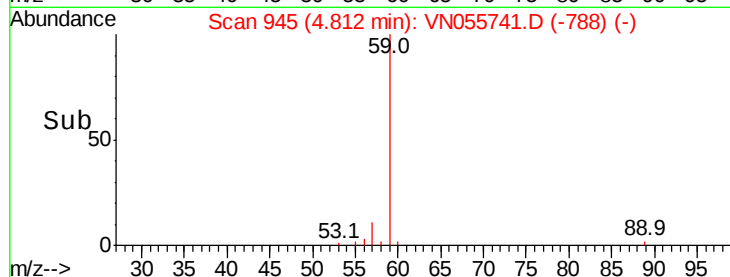
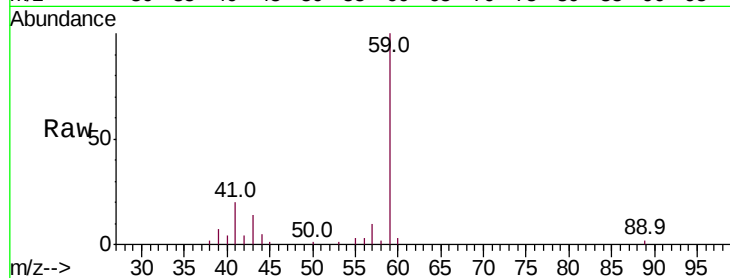
tert-Butyl Alcohol
 Concen: 96.254 ug/l
 RT: 4.81 min Scan# 945
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

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

Manual Integrations
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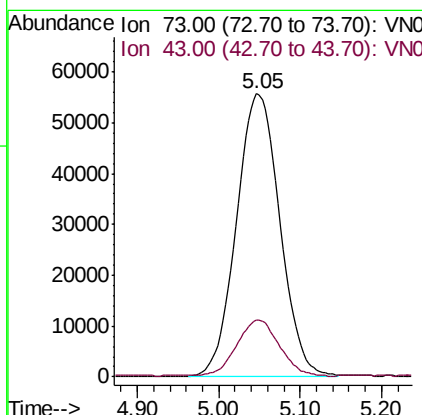
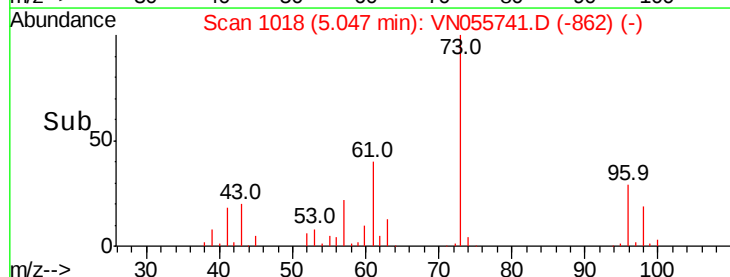
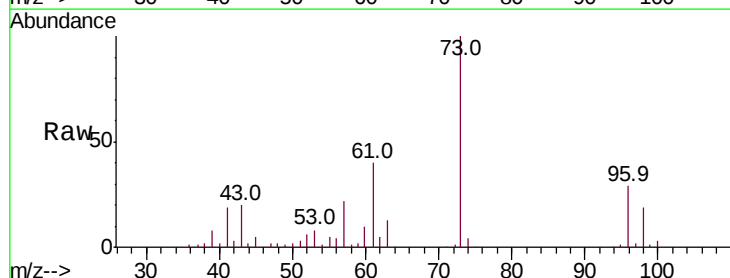
MMDadoda
 5/23/2019 12:30:05 PM

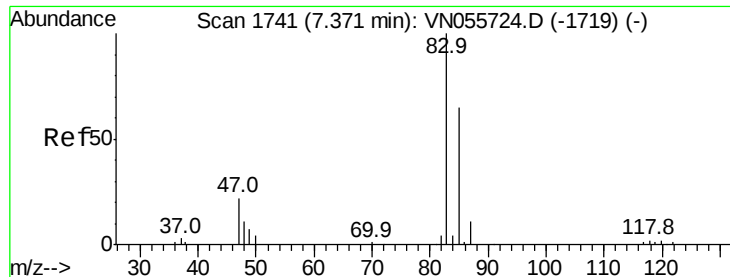


#24

Methyl tert-Butyl Ether
 Concen: 19.942 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	73	43	Ratio	Lower	Upper
73	100				
43	19.2		15.7	23.5	





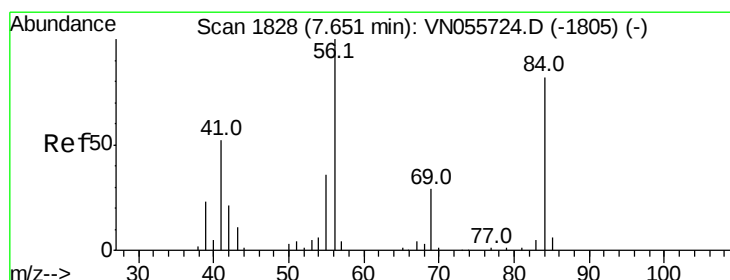
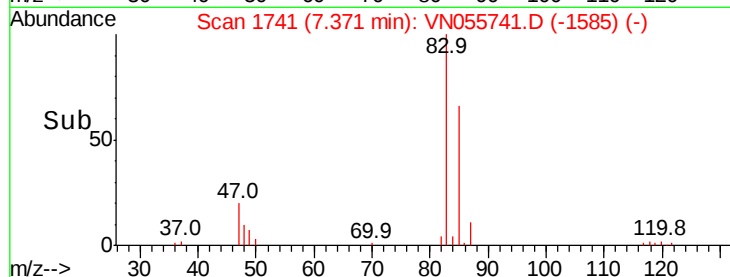
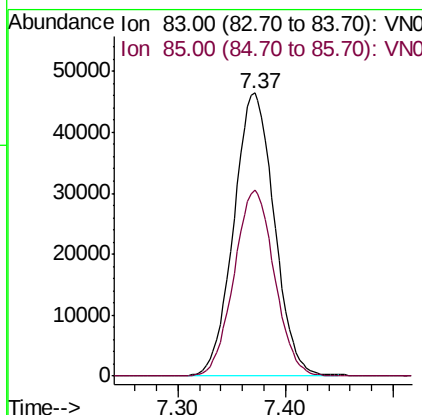
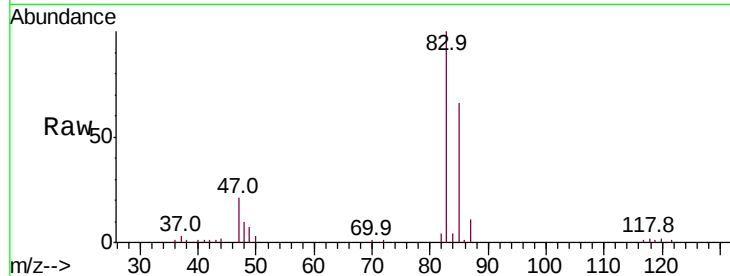
#25
Chloroform
Concen: 20.447 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	121534
Ion Ratio	100	Lower	Upper
83	100		
85	65.6	51.7	77.5

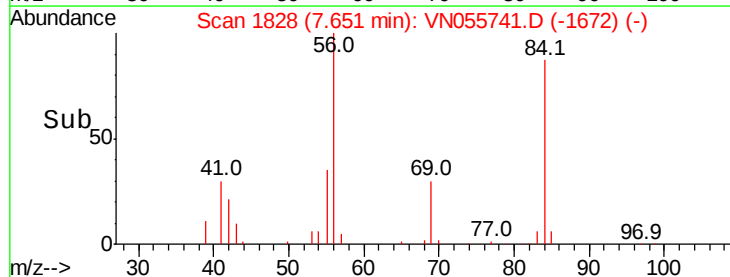
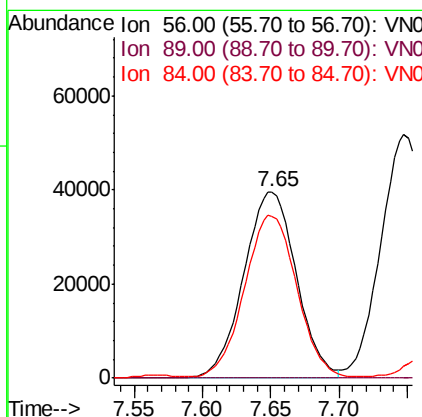
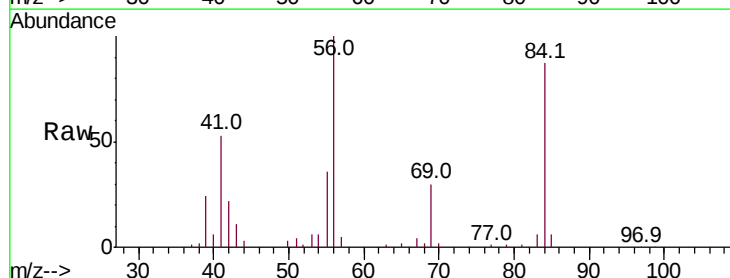
Manual Integrations
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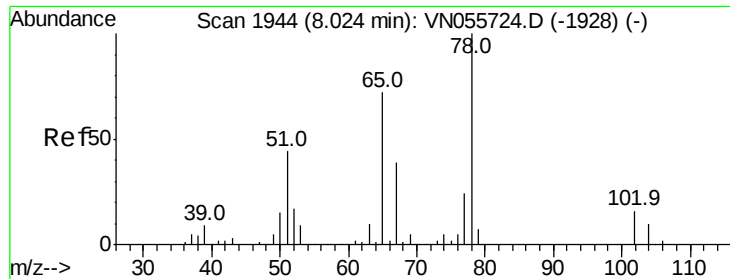
MMDadoda
5/23/2019 12:30:05 PM



#26
Cyclohexane
Concen: 19.109 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion	56	Resp	106089
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	86.5	67.2	100.8





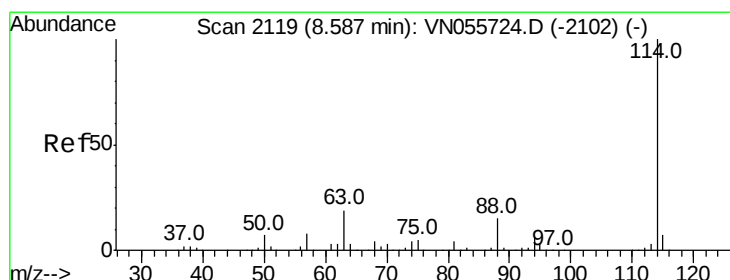
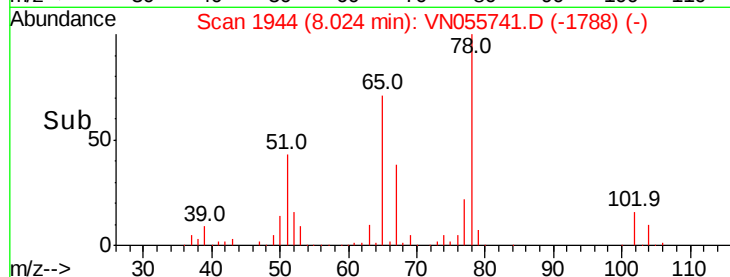
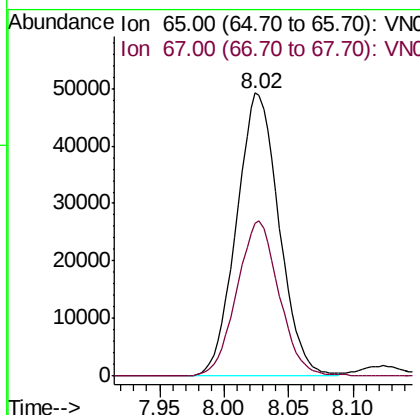
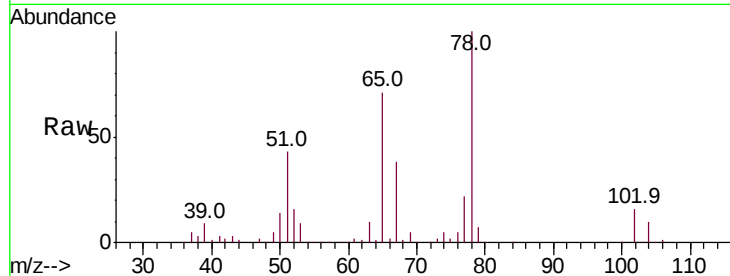
#27
 1,2-Dichloroethane-d4
 Concen: 30.044 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 65 Resp: 113388
 Ion Ratio Lower Upper
 65 100
 67 54.1 43.5 65.3

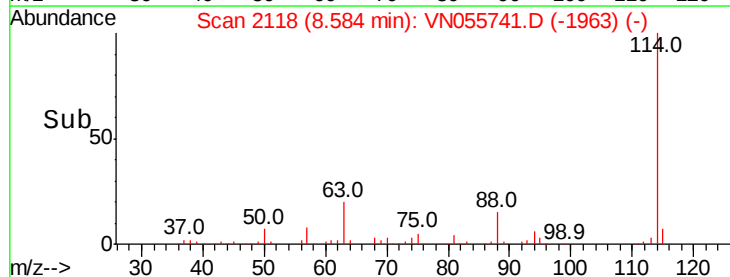
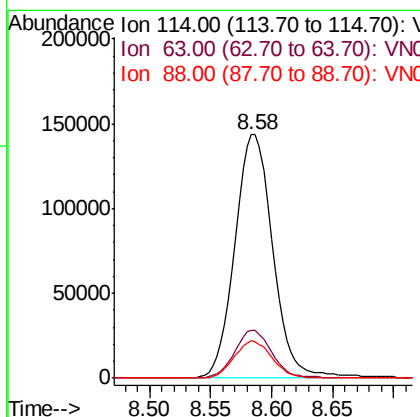
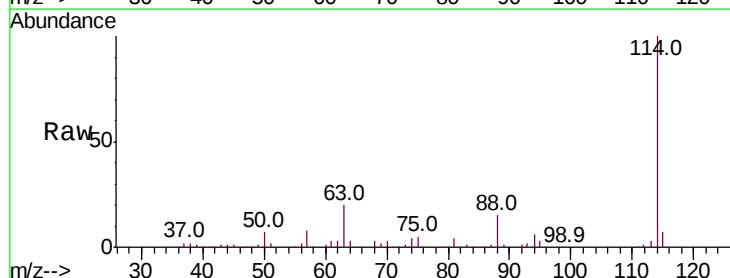
Manual Integrations
 APPROVED

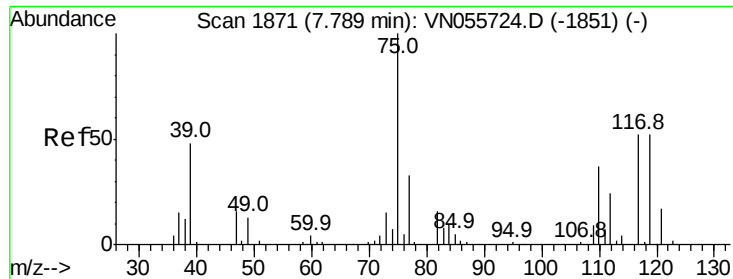
MMDadoda
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#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion: 114 Resp: 309006
 Ion Ratio Lower Upper
 114 100
 63 19.6 15.6 23.4
 88 15.3 12.3 18.5





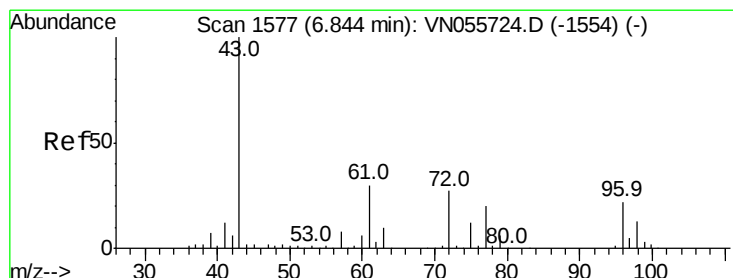
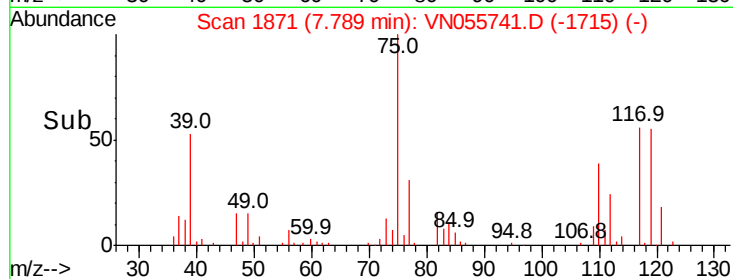
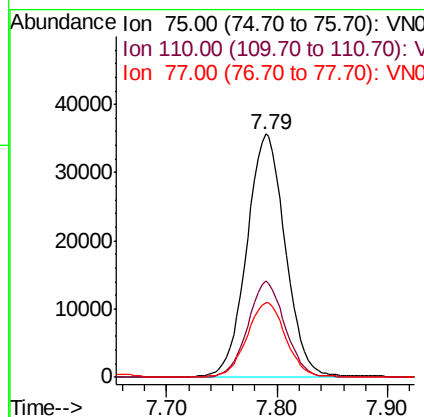
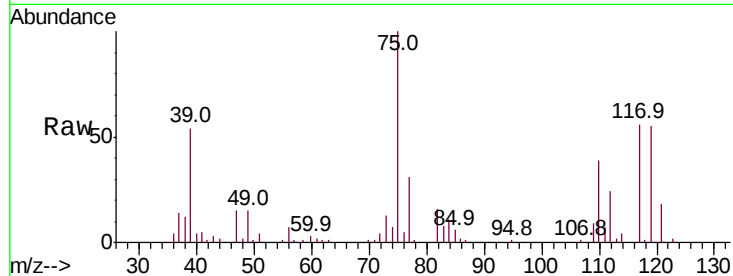
#29
 1,1-Dichloropropene
 Concen: 19.981 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
110	38.0	0.0	74.8
77	30.9	0.0	65.2

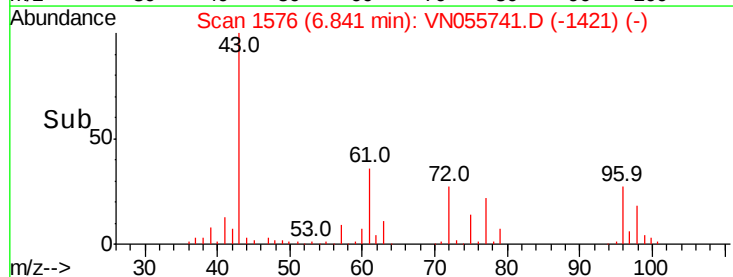
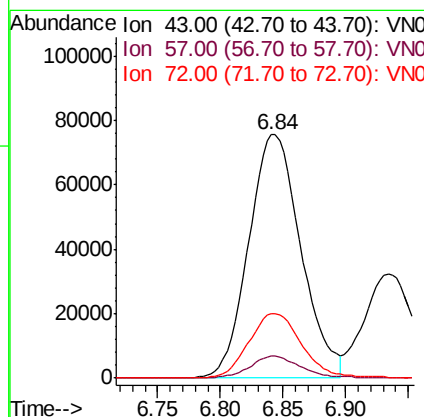
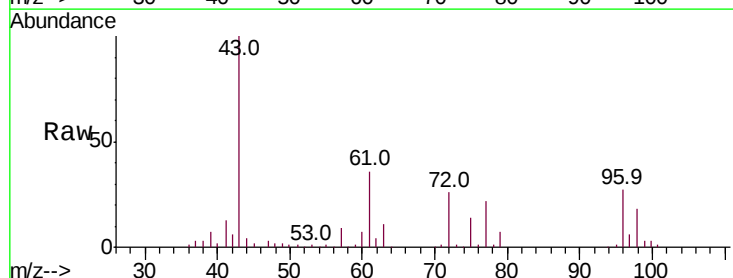
Manual Integrations
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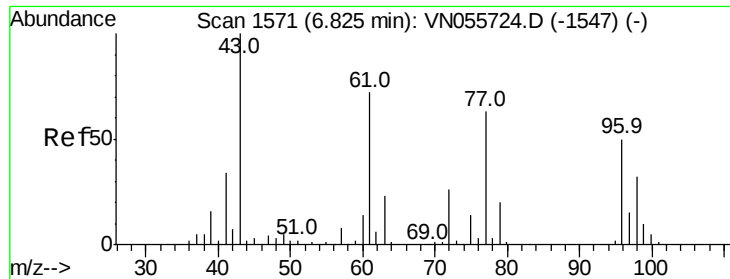
MMDadoda
 5/23/2019 12:30:05 PM



#30
 2-Butanone
 Concen: 94.189 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.9	6.6	10.0
72	27.3	21.7	32.5





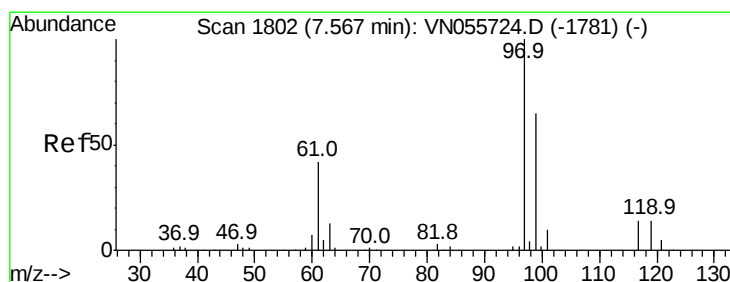
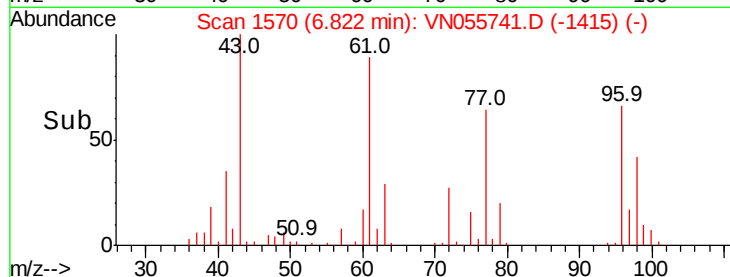
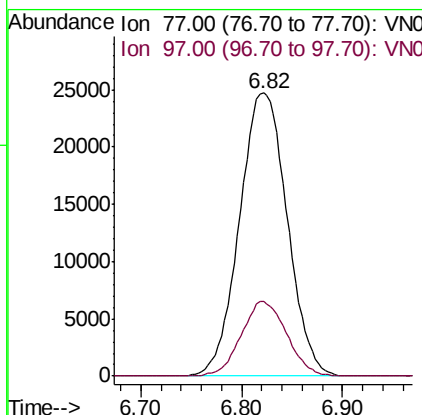
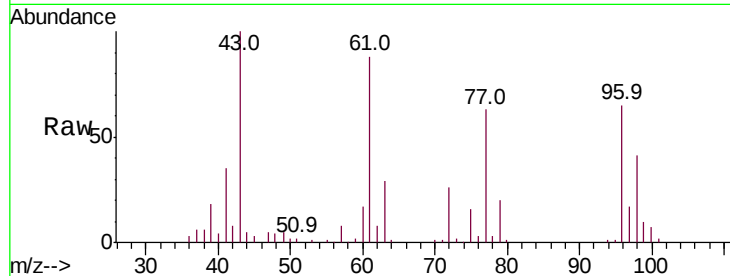
#31
 2,2-Dichloropropane
 Concen: 16.126 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 77 Resp: 81177
 Ion Ratio Lower Upper
 77 100
 97 25.1 19.2 28.8

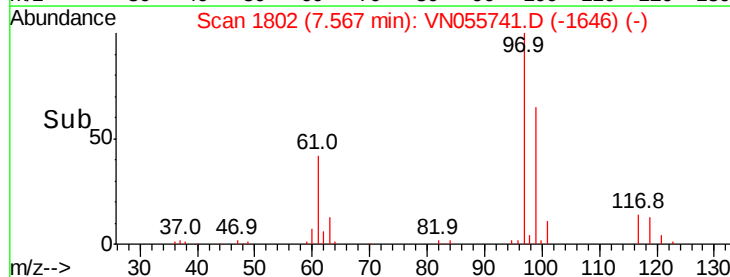
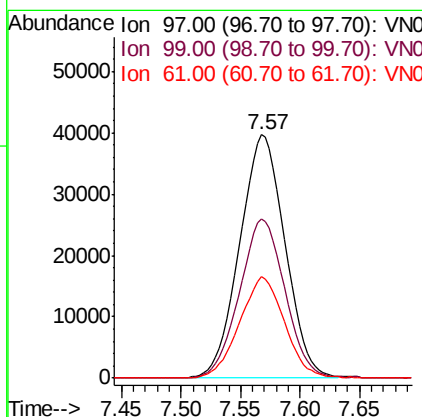
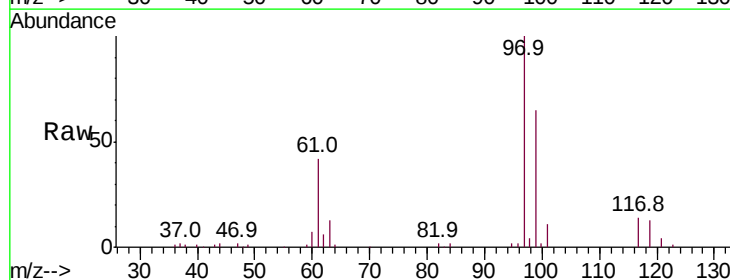
Manual Integrations
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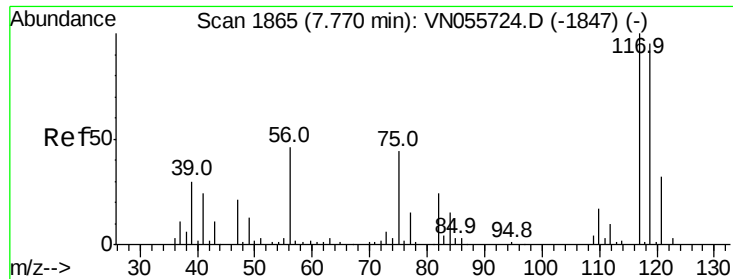
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 20.435 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion: 97 Resp: 104776
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.7 77.5
 61 41.2 33.1 49.7





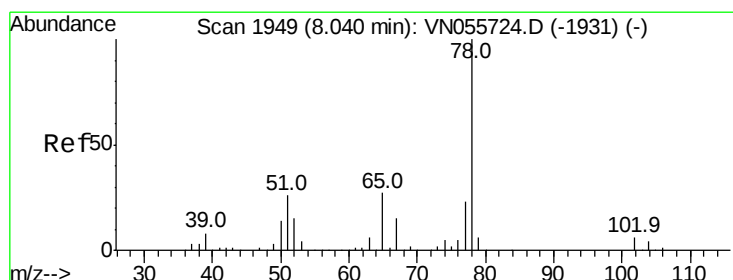
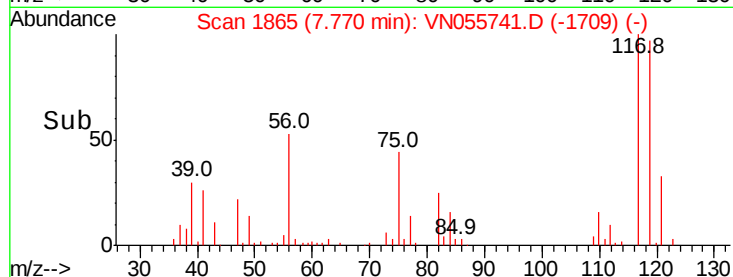
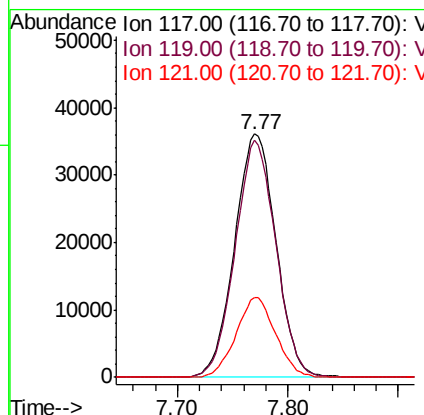
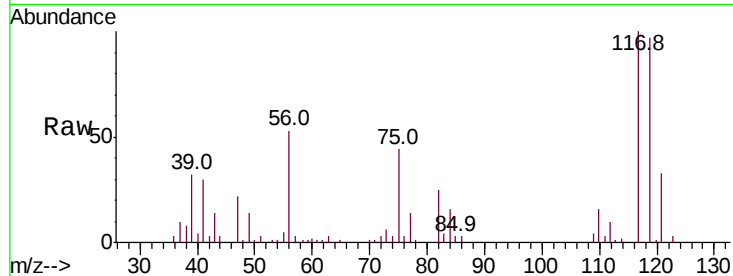
#33
Carbon Tetrachloride
Concen: 20.476 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.8	113.8
121	33.0	25.4	38.0

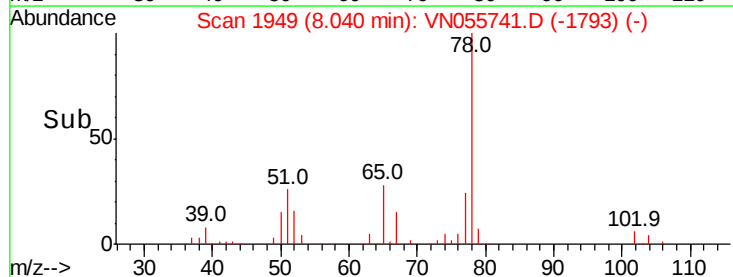
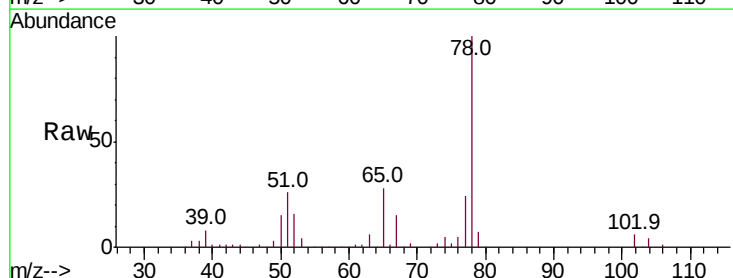
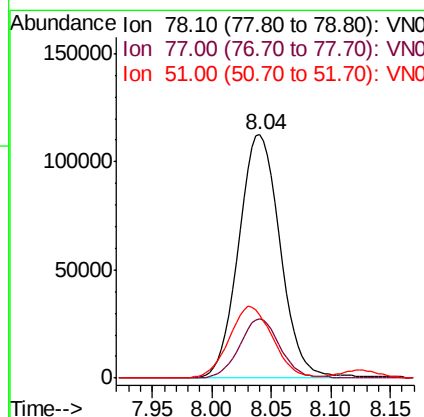
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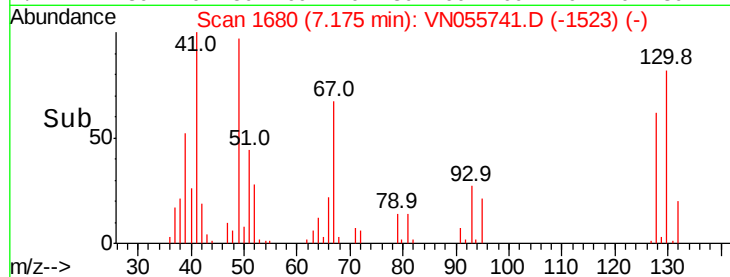
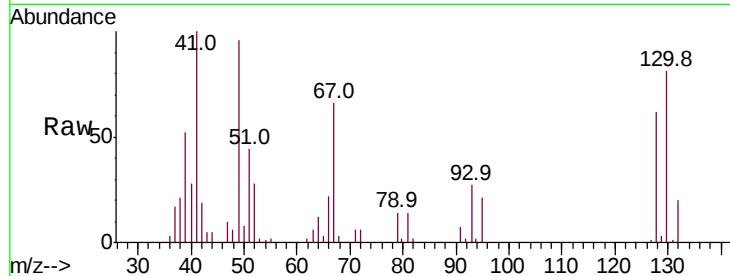
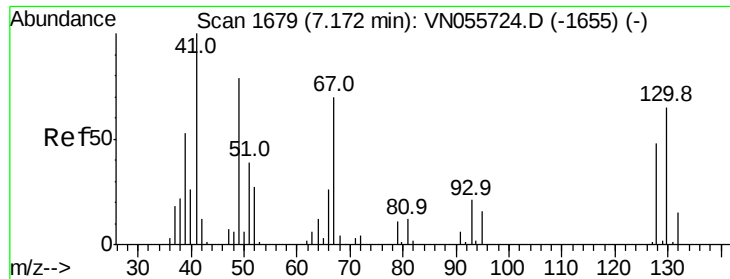
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5/23/2019 12:30:05 PM



#34
Benzene
Concen: 20.357 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.8	28.2
51	25.8	20.6	31.0





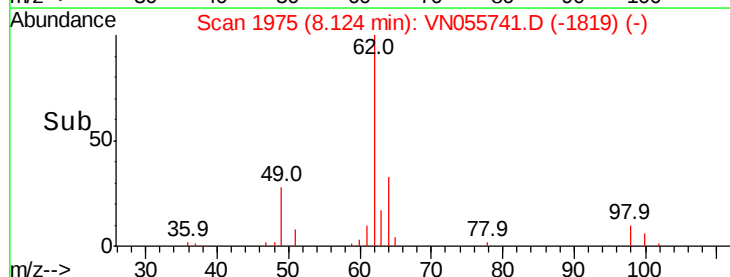
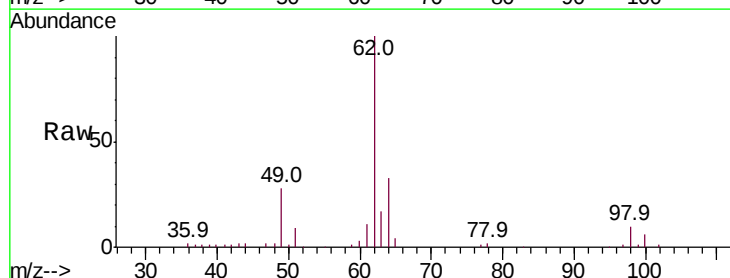
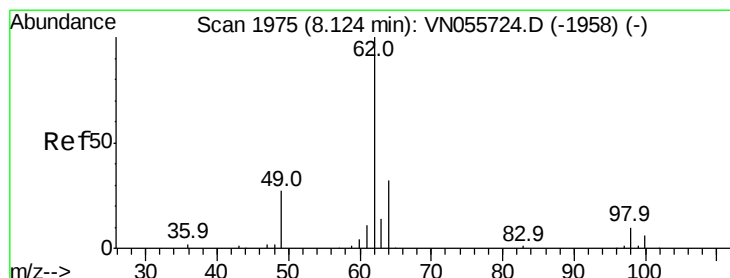
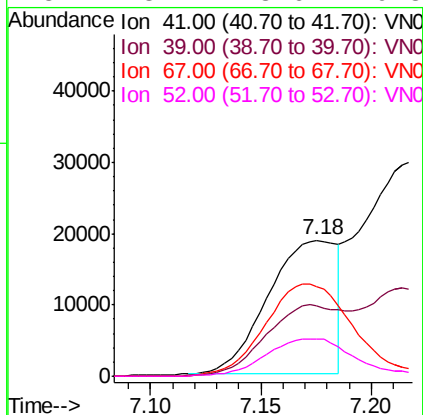
#35
Methacrylonitrile
Concen: 19.173 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tot Ion: 41 Resp: 40803
Ion Ratio Lower Upper
41 100
39 51.8 26.7 80.1
67 67.3 34.9 104.7
52 28.1 13.6 40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

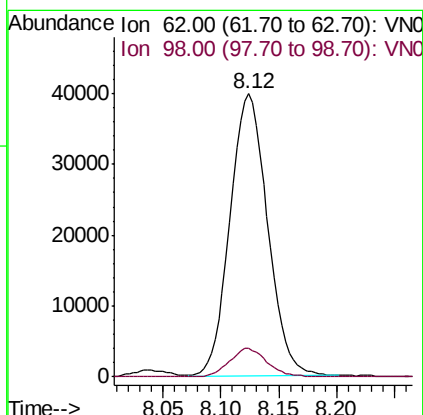
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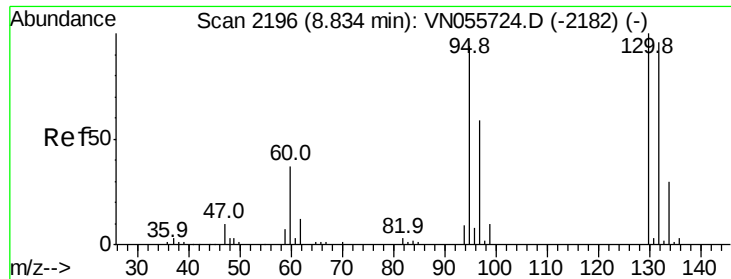
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5/23/2019 12:30:05 PM



#36
1,2-Dichloroethane
Concen: 20.537 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion: 62 Resp: 89632
Ion Ratio Lower Upper
62 100
98 10.0 8.2 12.2





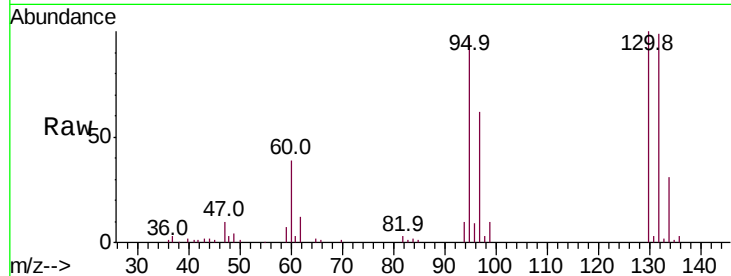
#37
 Trichloroethene
 Concen: 20.188 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

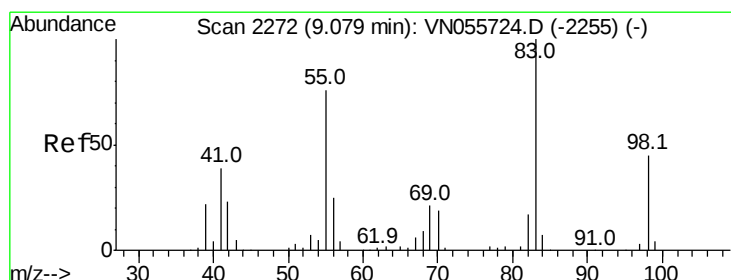
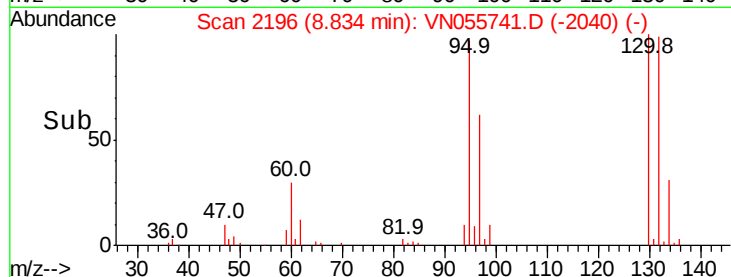
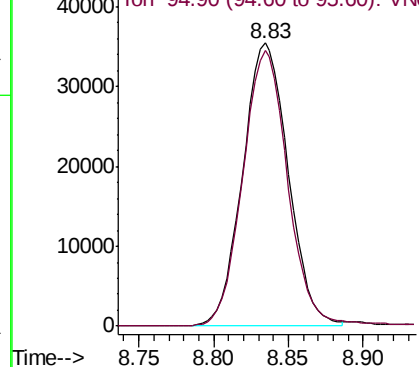
Tot Ion:130 Resp: 75225
 Ion Ratio Lower Upper
 130 100
 95 97.2 75.6 113.4

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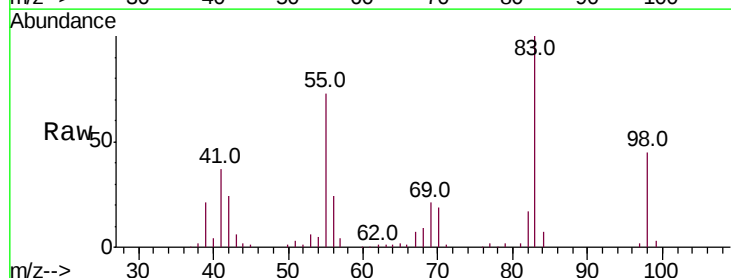


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

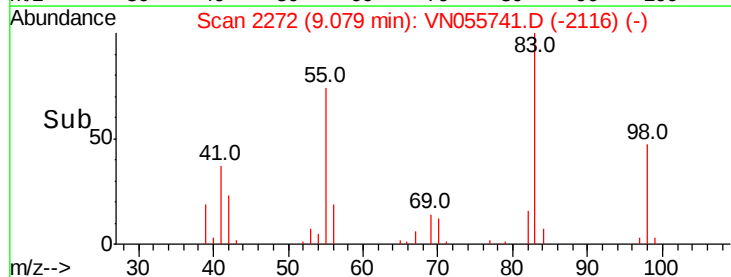
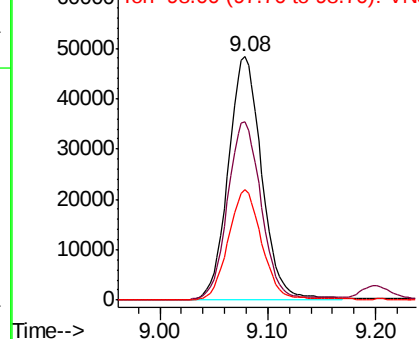


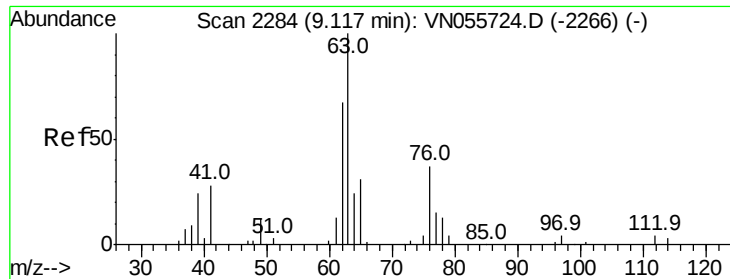
#38
 Methylcyclohexane
 Concen: 19.105 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion: 83 Resp: 104707
 Ion Ratio Lower Upper
 83 100
 55 73.3 37.8 113.4
 98 45.5 22.6 67.8



Abundance Ion 83.00 (82.70 to 83.70): VN
 Ion 55.00 (54.70 to 55.70): VN
 Ion 98.00 (97.70 to 98.70): VN





#39

1,2-Dichloropropane

Concen: 20.204 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 63 Resp: 72536

Ion Ratio Lower Upper

63 100

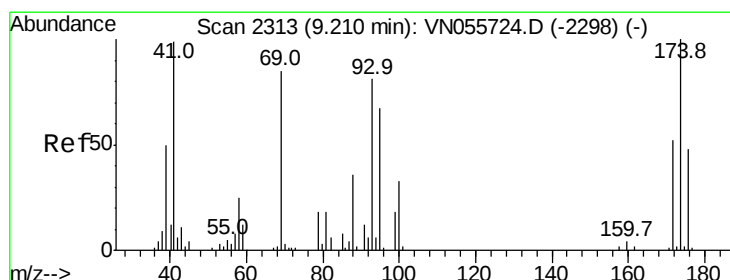
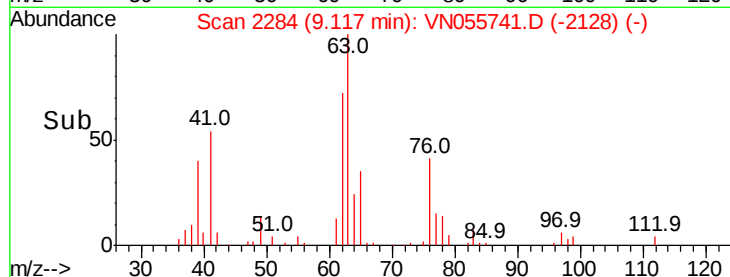
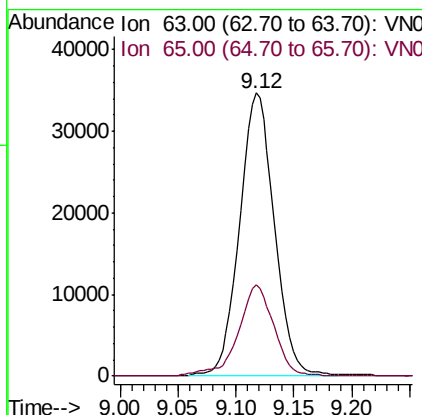
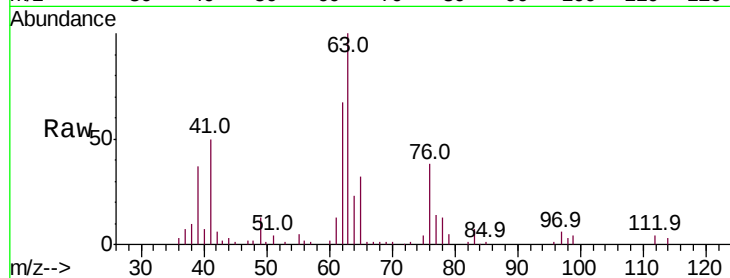
65 32.2 25.8 38.8

Manual Integrations

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5/23/2019 12:30:05 PM



#40

Dibromomethane

Concen: 20.871 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

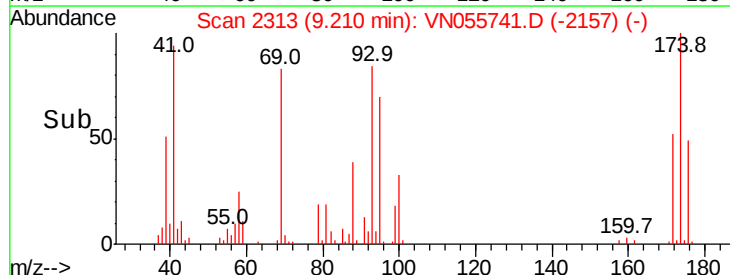
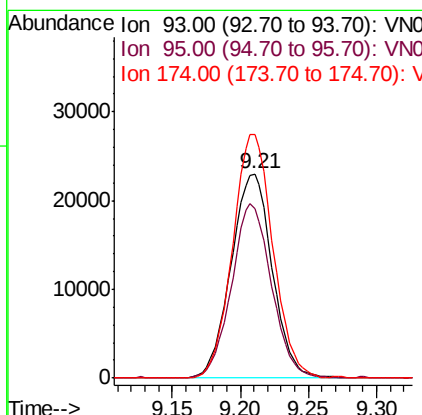
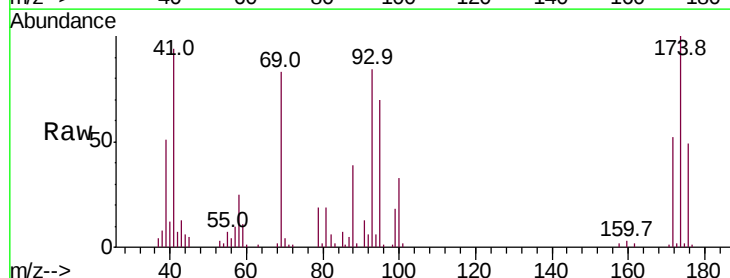
Tgt Ion: 93 Resp: 48387

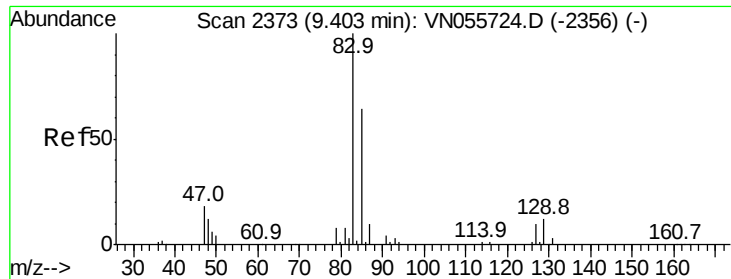
Ion Ratio Lower Upper

93 100

95 82.2 0.0 170.6

174 116.1 0.0 248.4





#41

Bromodichloromethane

Concen: 20.358 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

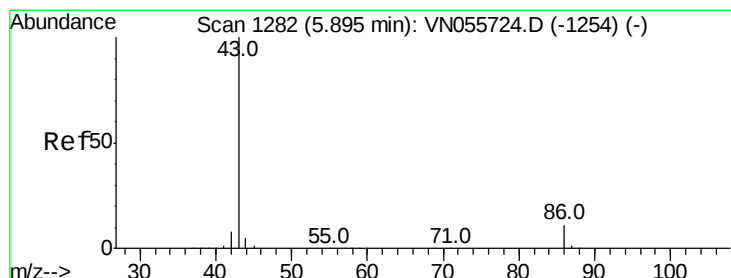
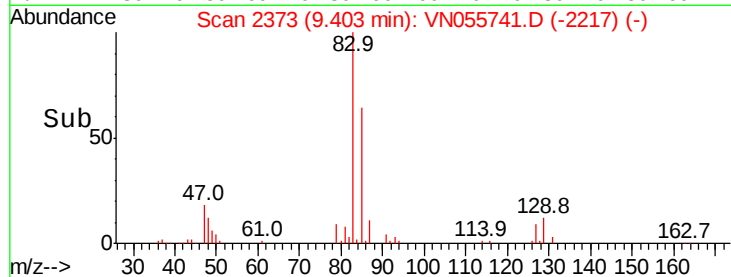
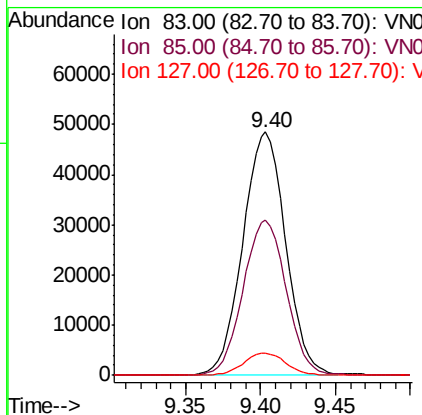
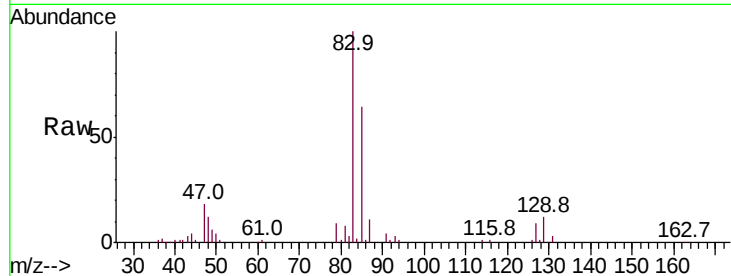
ClientSampleId :

VSTDCCC020EC

Tot Ion:	83	Resp:	96732
Ion Ratio	Lower	Upper	
83	100		
85	63.7	51.4	77.0
127	9.0	7.7	11.5

Manual Integrations
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5/23/2019 12:30:05 PM



#42

Vinyl Acetate

Concen: 98.755 ug/l

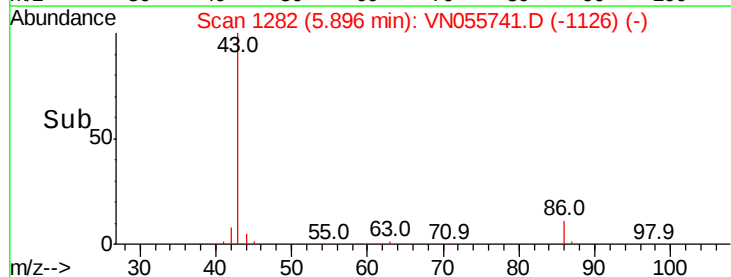
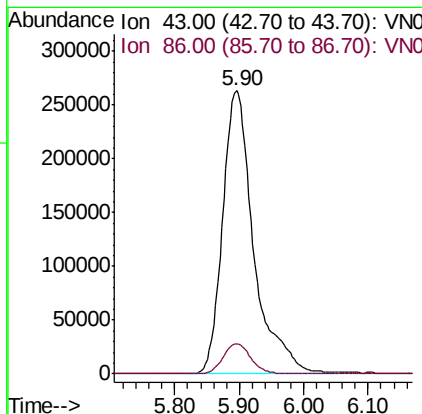
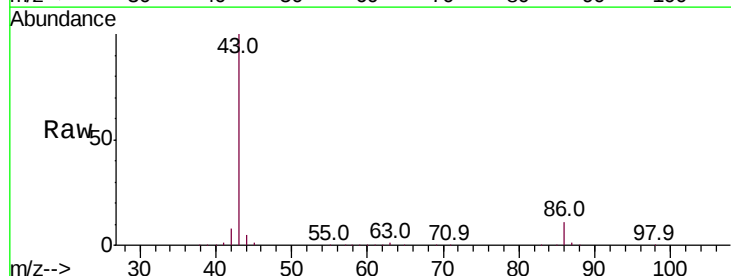
RT: 5.90 min Scan# 1282

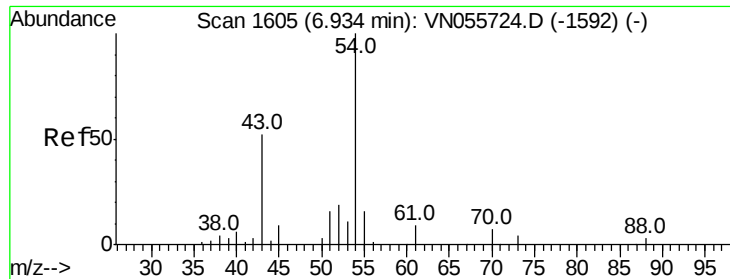
Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Tgt Ion:	43	Resp:	884046
Ion Ratio	Lower	Upper	
43	100		
86	9.6	7.4	11.2





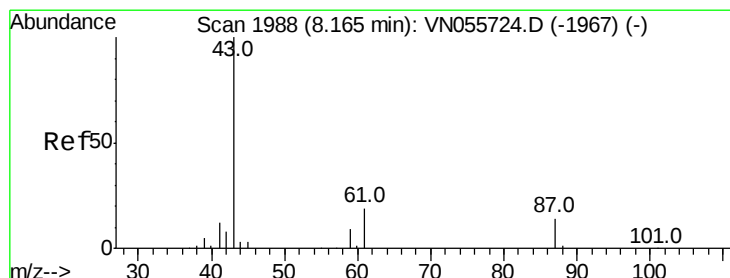
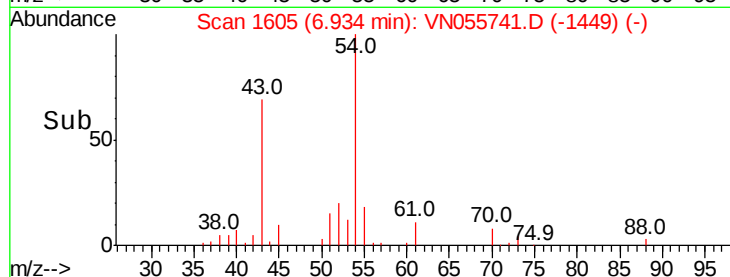
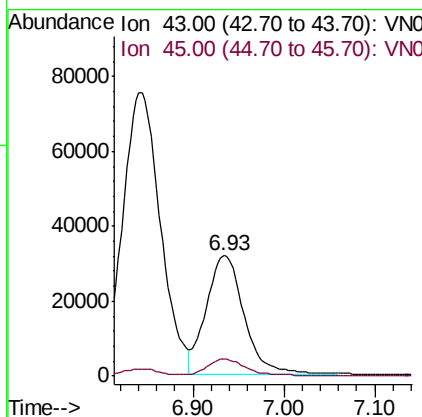
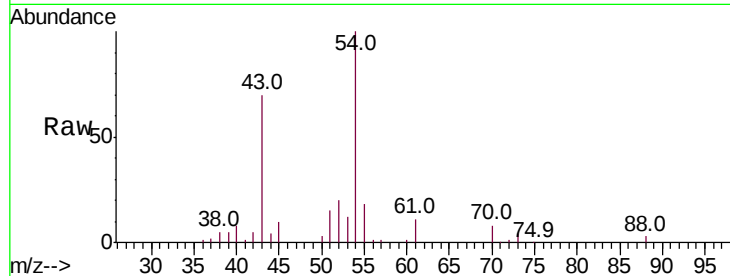
#43
Ethyl Acetate
Concen: 20.555 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	43	45	Ratio	100	15.2	Resp	93158
Ion	43	45	Ratio	100	15.2	Lower	0.0
						Upper	0.0#

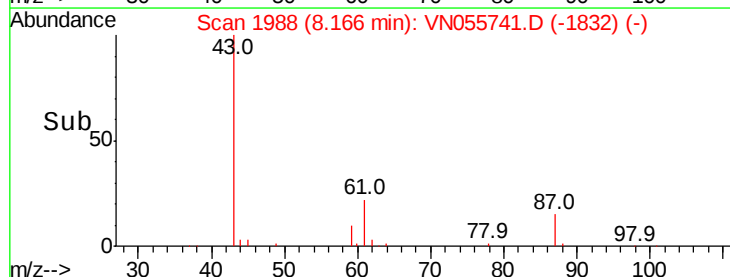
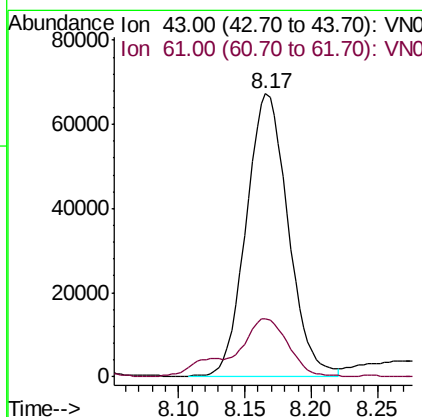
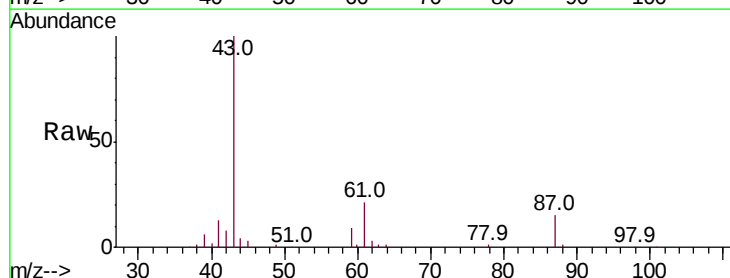
Manual Integrations
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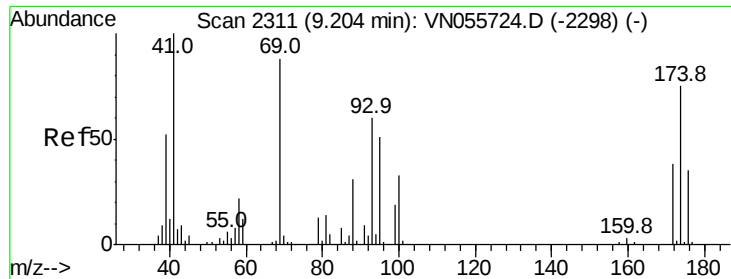
MMDadoda
5/23/2019 12:30:05 PM



#44
Isopropyl Acetate
Concen: 19.563 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion	43	61	Ratio	100	21.7	Resp	146817
Ion	43	61	Ratio	100	21.7	Lower	22.1
						Upper	33.1#





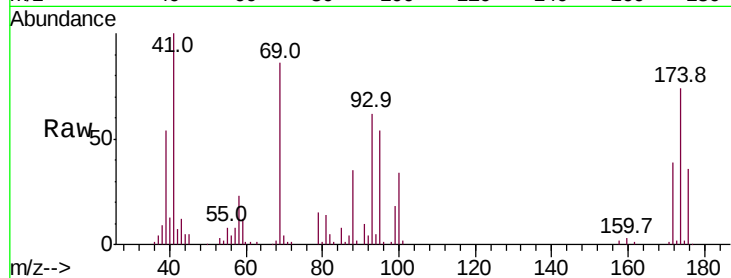
#45
1,4-Dioxane
Concen: 400.677 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	27.8	20.5	30.7
58	70.7	56.1	84.1

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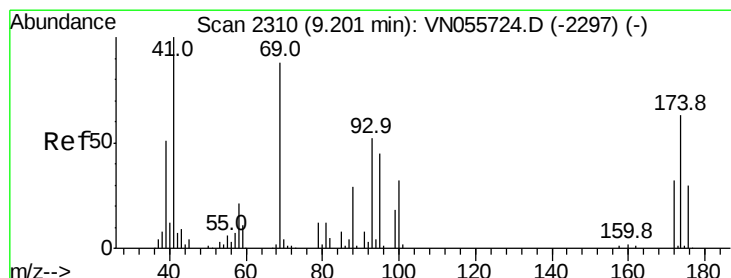
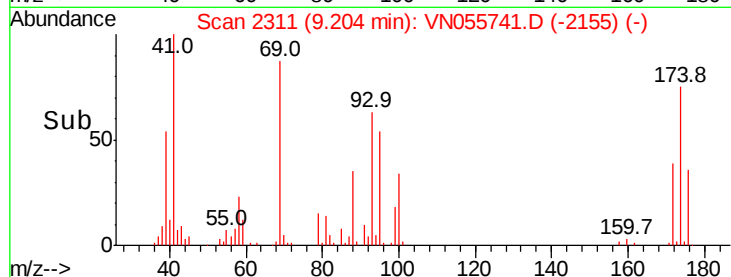
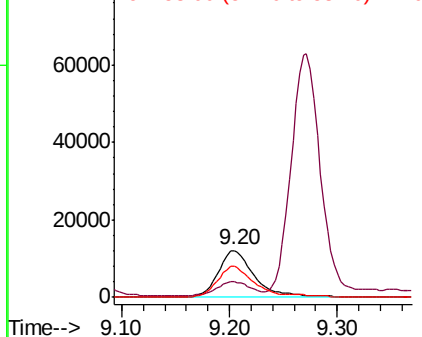


Abundance

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: 19.330 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

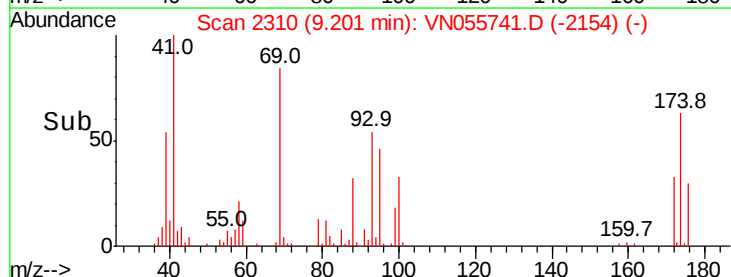
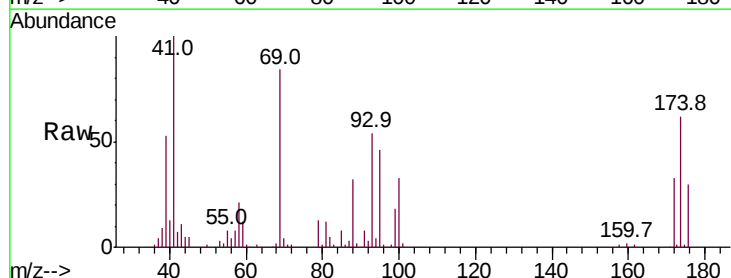
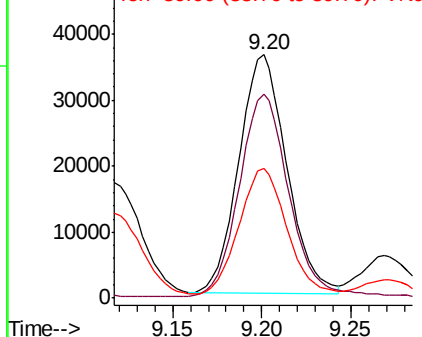
Tgt Ion	Ratio	Lower	Upper
41	100		
69	85.0	43.8	131.4
39	52.8	25.6	76.6

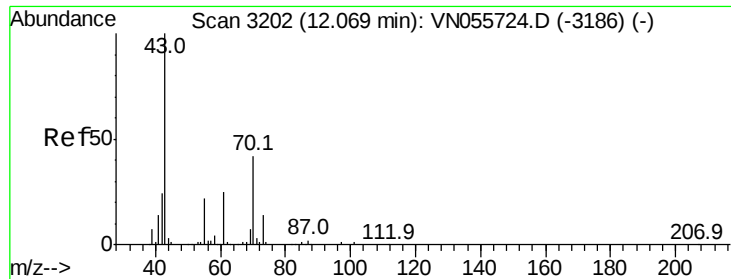
Abundance

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





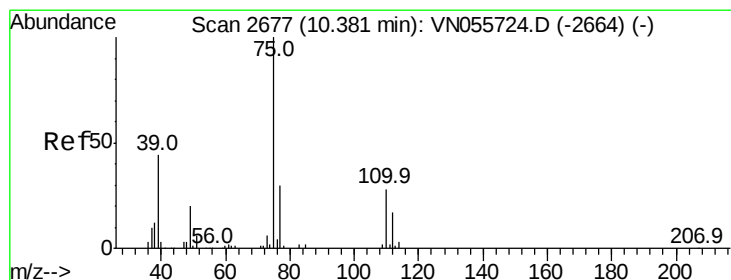
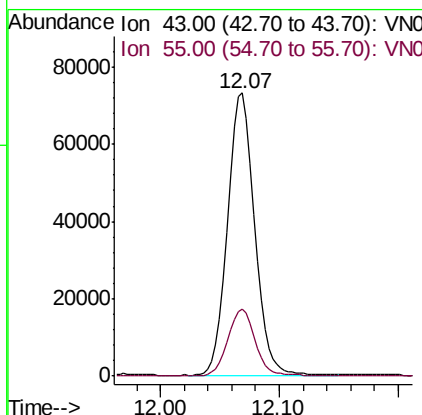
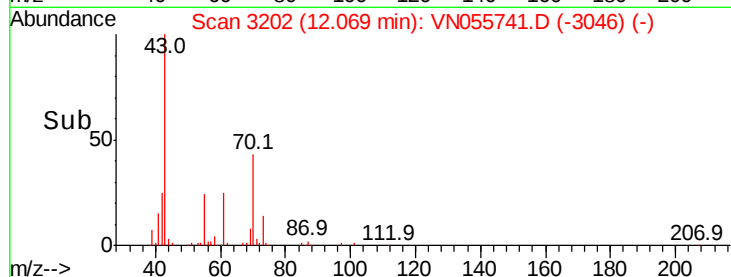
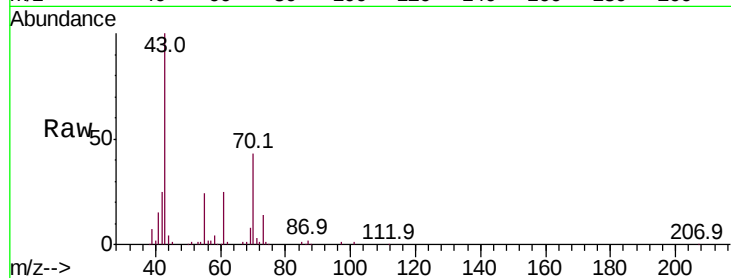
#47
n-amvl Acetate
Concen: 18.508 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 43 Resp: 114888
Ion Ratio Lower Upper
43 100
55 24.5 17.8 26.6

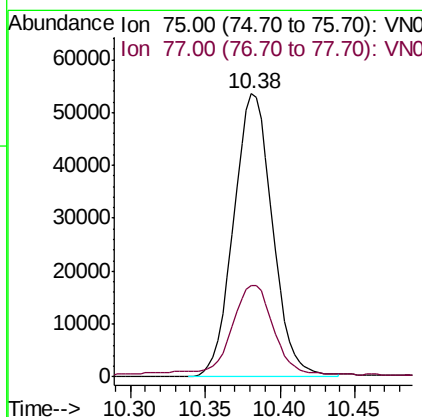
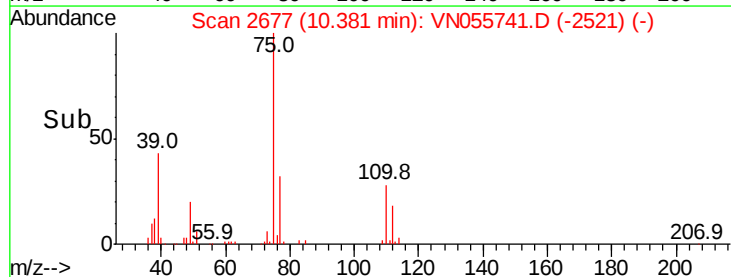
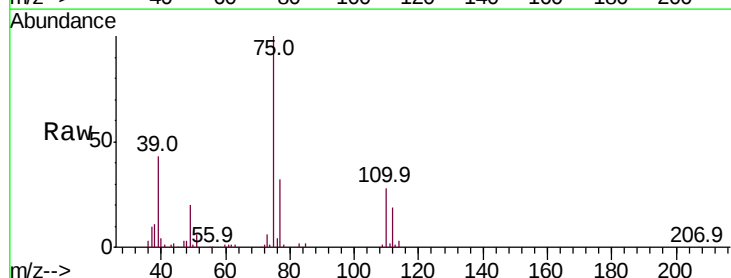
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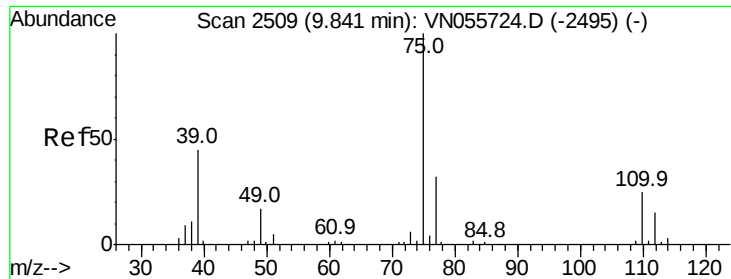
MMDadoda
5/23/2019 12:30:05 PM



#48
t-1,3-Dichloropropene
Concen: 18.514 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion: 75 Resp: 97107
Ion Ratio Lower Upper
75 100
77 31.1 25.2 37.8





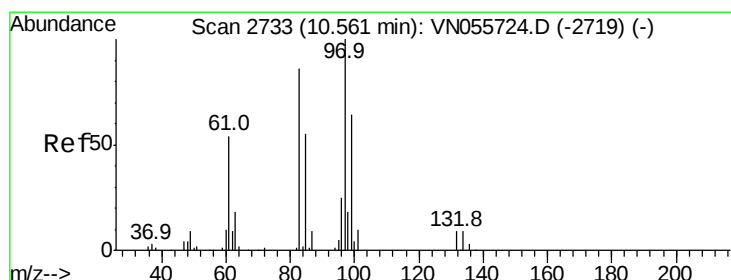
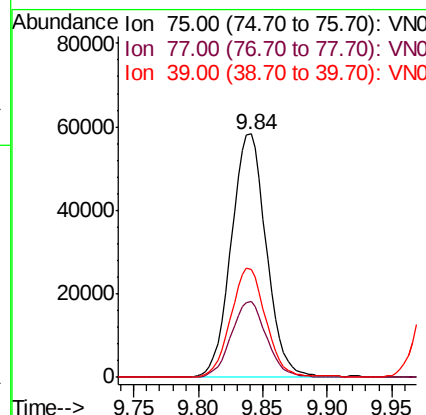
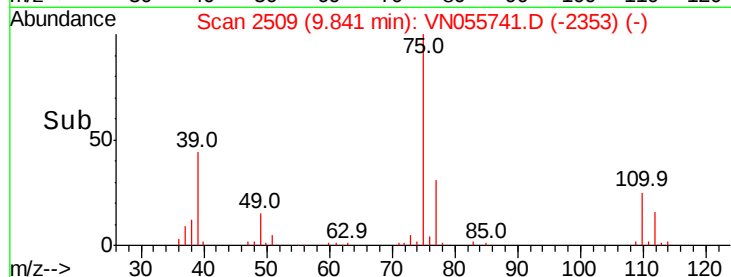
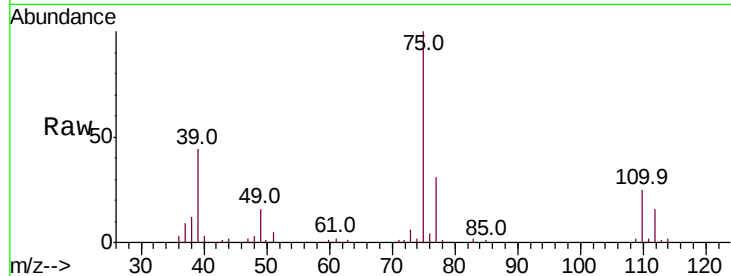
#49
 cis-1,3-Dichloropropene
 Concen: 19.204 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
77	31.0	26.0	39.0	
39	44.4	36.2	54.4	

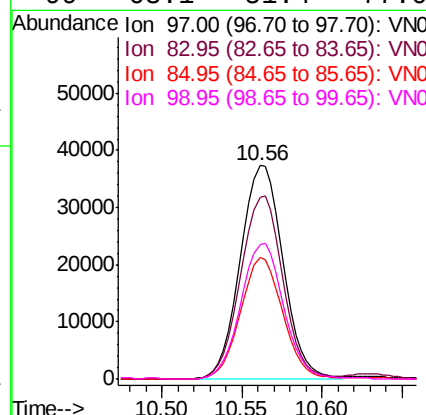
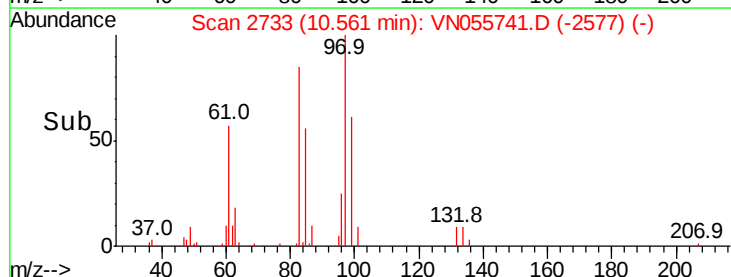
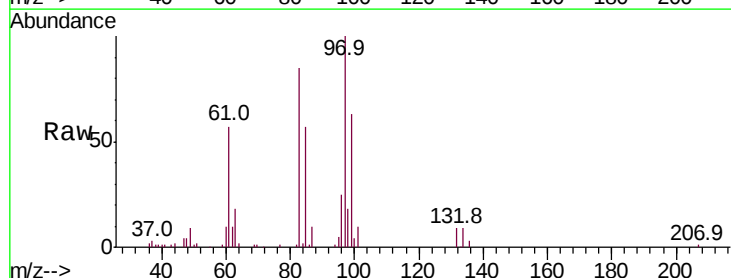
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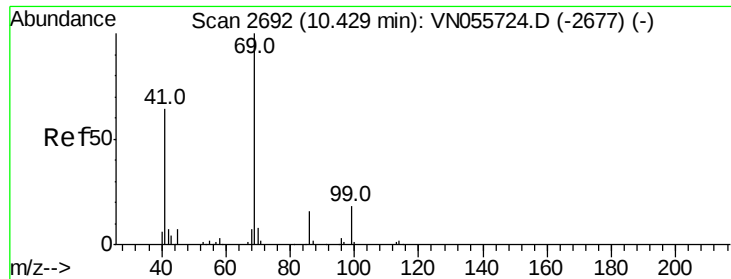
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 5/23/2019 12:30:05 PM



#50
 1,1,2-Trichloroethane
 Concen: 20.261 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
83	85.1	68.9	103.3	
85	57.1	44.3	66.5	
99	63.1	51.4	77.0	





#51

Ethyl methacrylate

Concen: 19.514 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

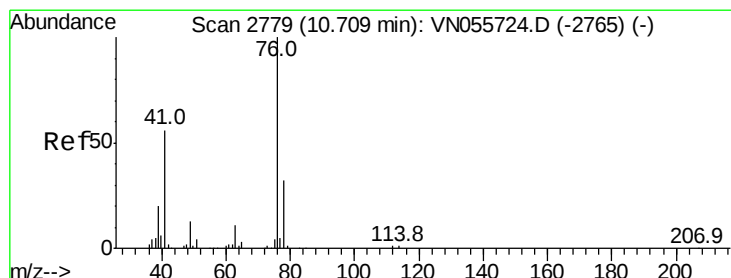
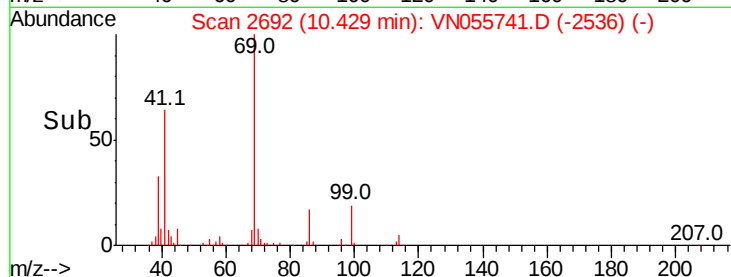
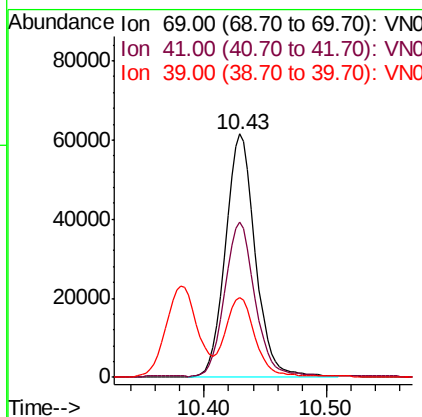
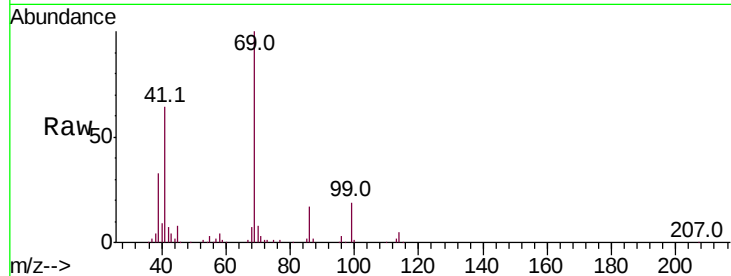
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	106158
Ion Ratio	Lower	Upper	
69	100		
41	63.4	31.9	95.7
39	32.4	15.7	47.0

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#52

1,3-Dichloropropane

Concen: 20.144 ug/l

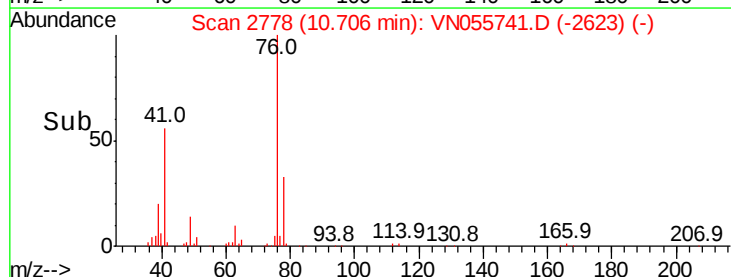
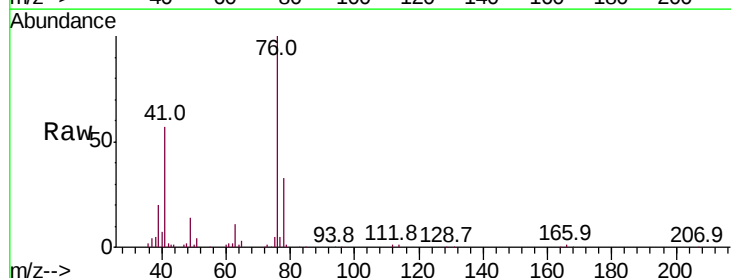
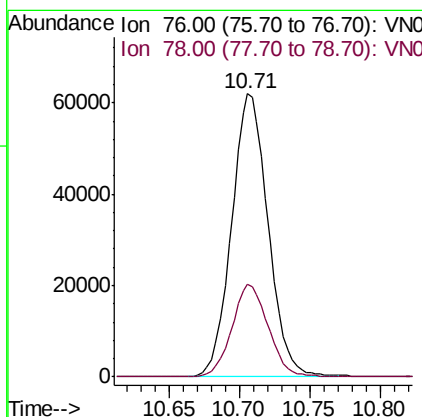
RT: 10.71 min Scan# 2778

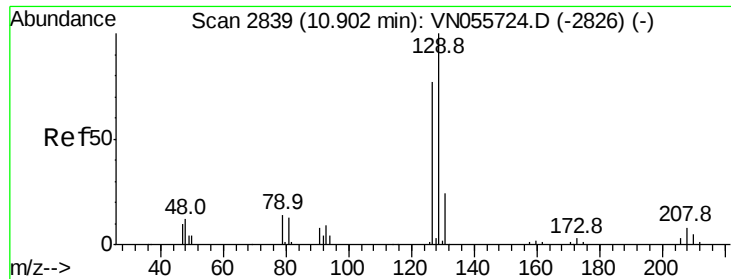
Delta R.T. -0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Tgt Ion:	76	Resp:	112063
Ion Ratio	Lower	Upper	
76	100		
78	32.7	0.0	65.0





#53

Dibromochloromethane

Concen: 20.294 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:129 Resp: 80911

Ion Ratio Lower Upper

129 100

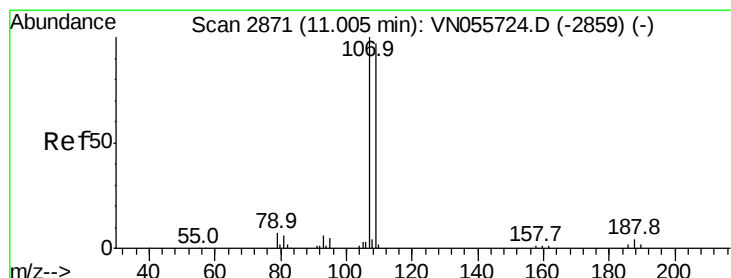
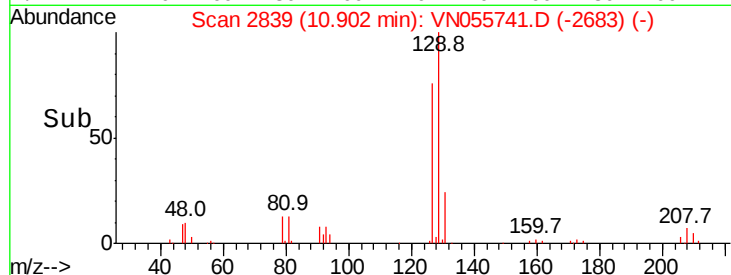
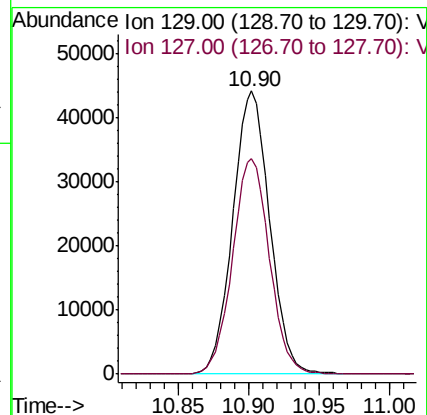
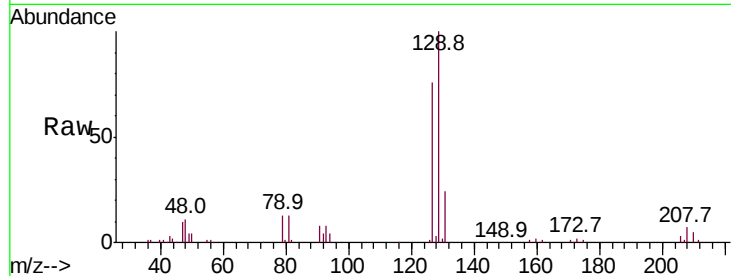
127 76.0 39.2 117.6

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5/23/2019 12:30:05 PM



#54

1,2-Dibromoethane

Concen: 20.321 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055741.D

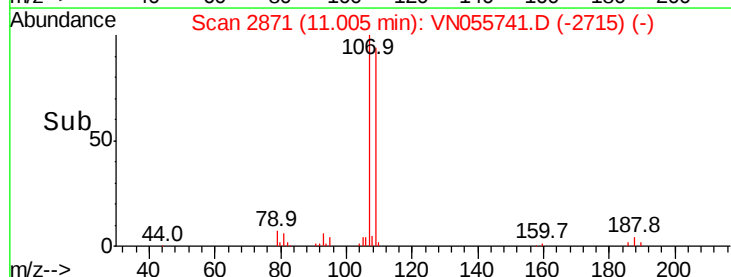
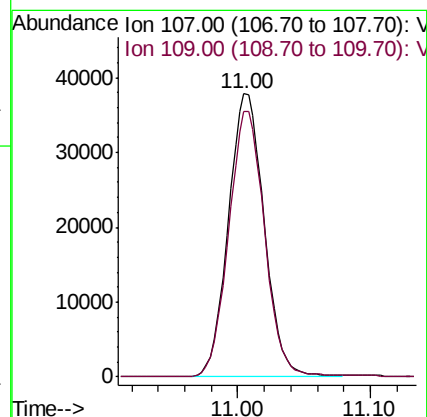
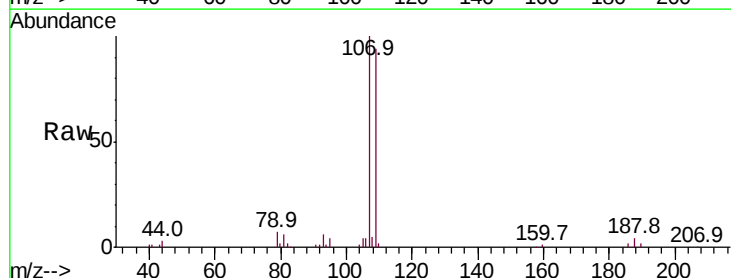
Acq: 23 May 2019 1:17

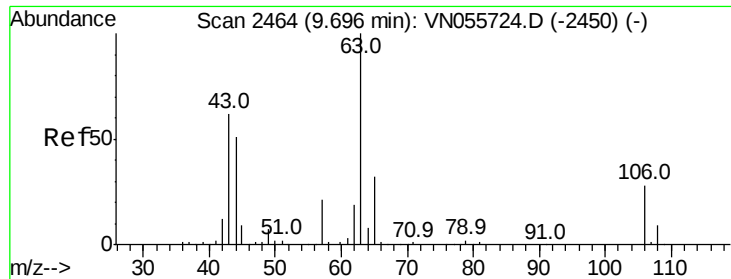
Tgt Ion:107 Resp: 70970

Ion Ratio Lower Upper

107 100

109 94.0 76.6 115.0





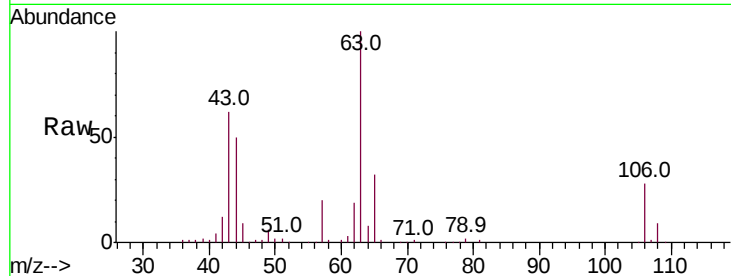
#55
2-Chloroethyl vinyl ether
Concen: 92.083 ug/l
RT: 9.69 min Scan# 2463
Delta R.T. -0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.4	38.0
106	28.4	22.1	33.1

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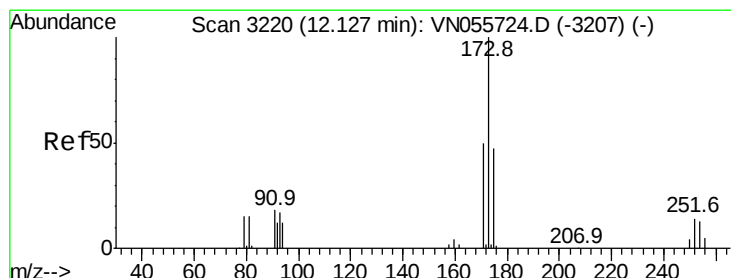
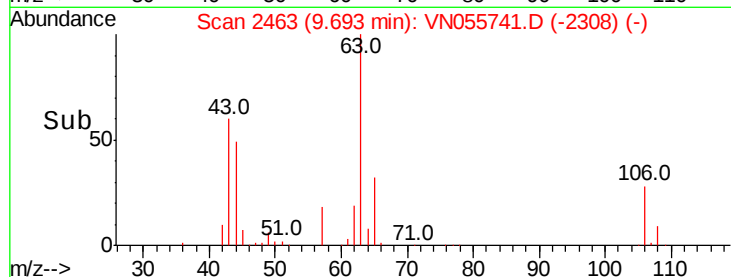
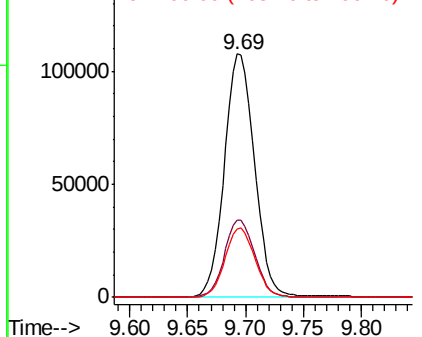


Abundance

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: 18.613 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

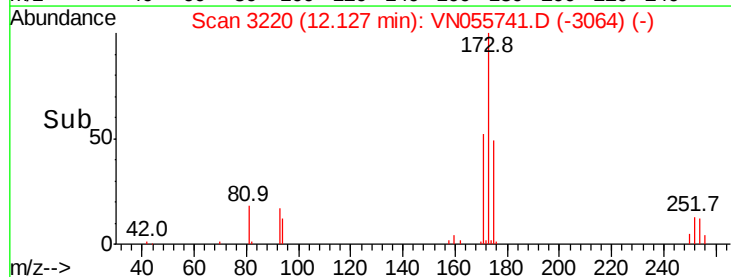
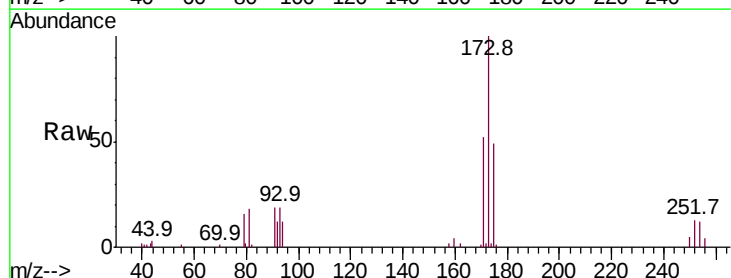
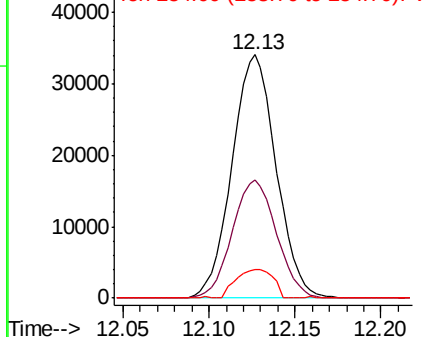
Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.6	38.5	57.7
254	9.9	9.4	14.0

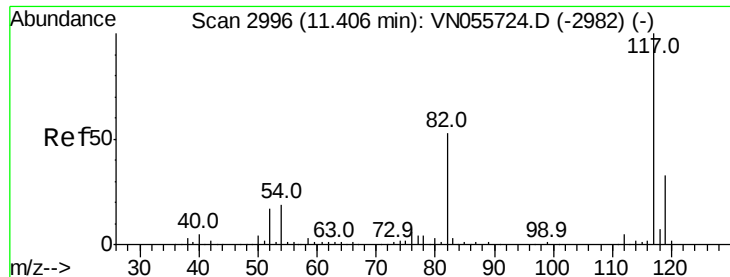
Abundance

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) (-)





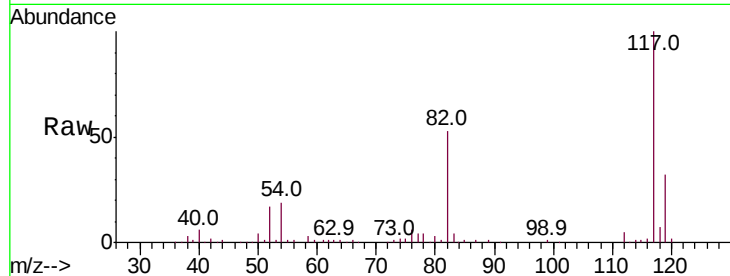
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

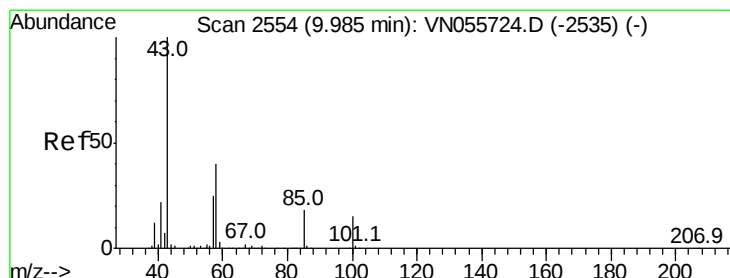
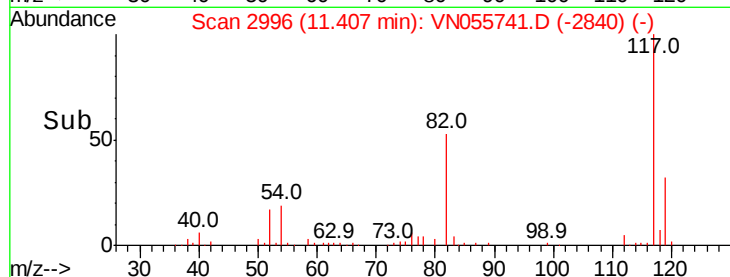
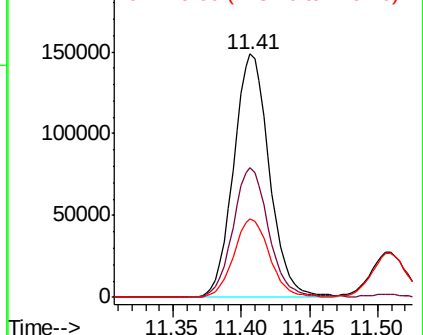
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.6	64.0
119	32.3	25.9	38.9

Manual Integrations
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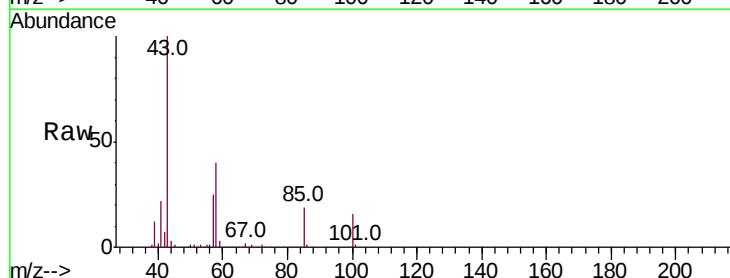


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

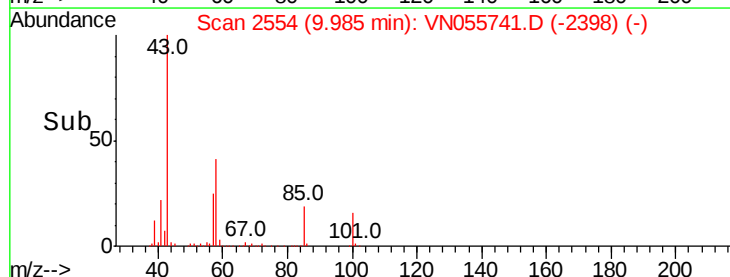
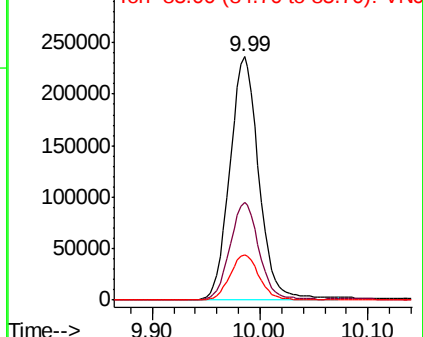


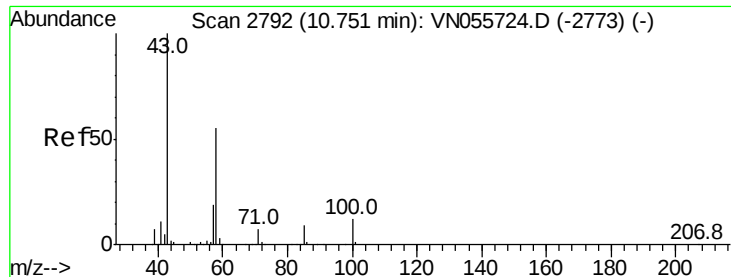
#58
4-Methyl-2-Pentanone
Concen: 98.753 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.4	31.7	47.5
85	18.8	14.5	21.7



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V





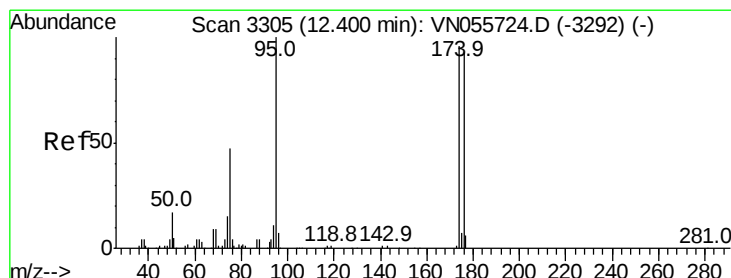
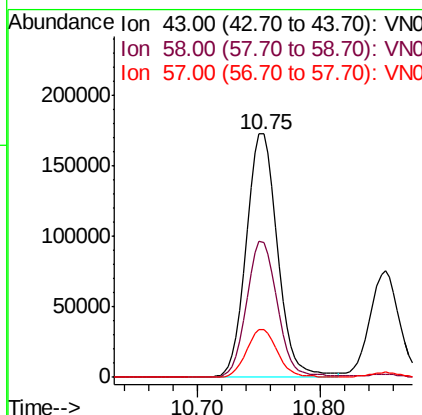
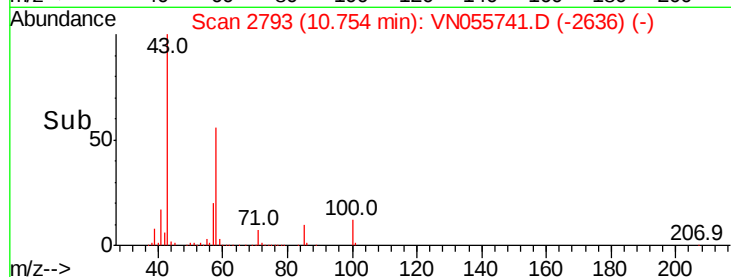
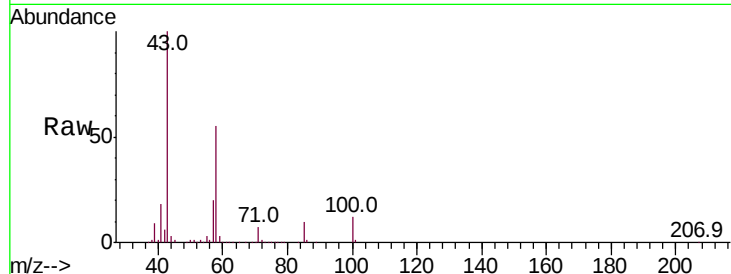
#59
2-Hexanone
Concen: 94.452 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.6	44.8	67.2
57	19.5	15.3	22.9

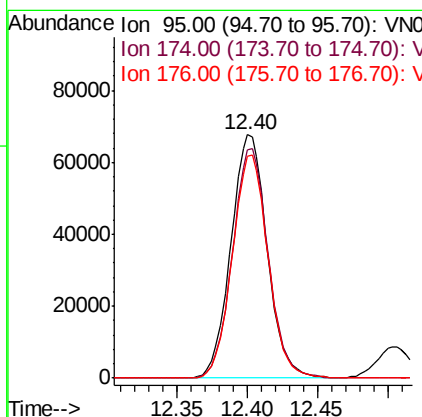
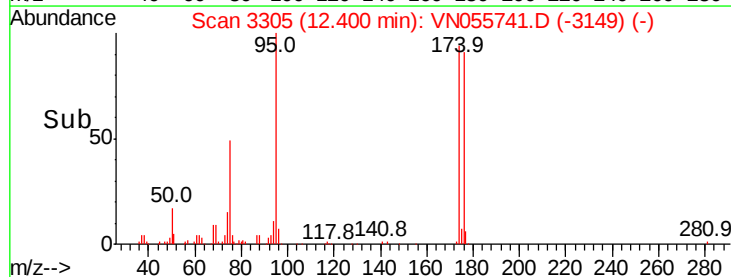
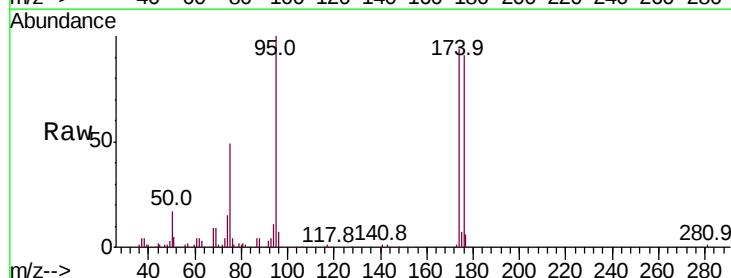
Manual Integrations
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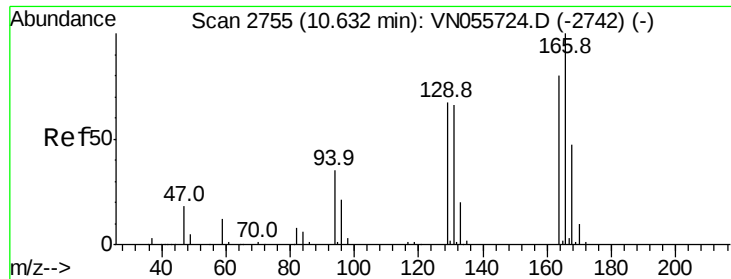
MMDadoda
5/23/2019 12:30:05 PM



#60
4-Bromofluorobenzene
Concen: 28.830 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.3	75.7	113.5
176	90.8	74.1	111.1





#61

Tetrachloroethene

Concen: 20.910 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:164 Resp: 76694

Ion Ratio Lower Upper

164 100

166 129.9 100.6 150.8

129 88.3 67.4 101.2

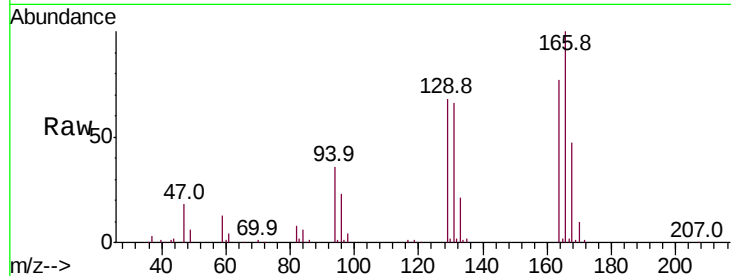
131 85.8 66.6 99.8

Manual Integrations

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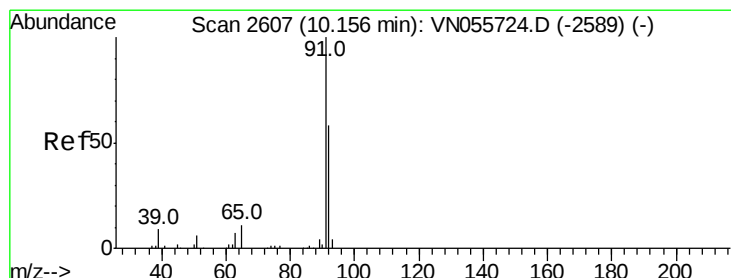
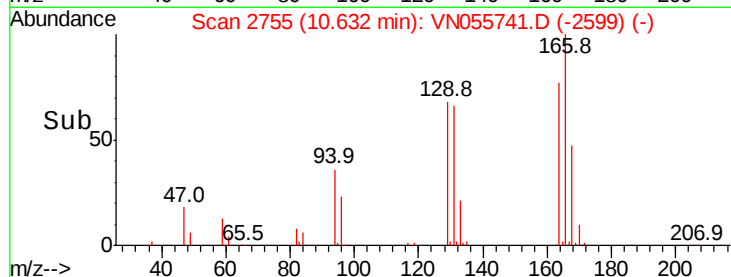
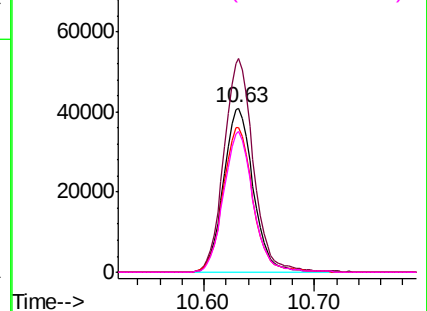


Abundance Ion 163.85 (163.55 to 164.55): V

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: 20.546 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055741.D

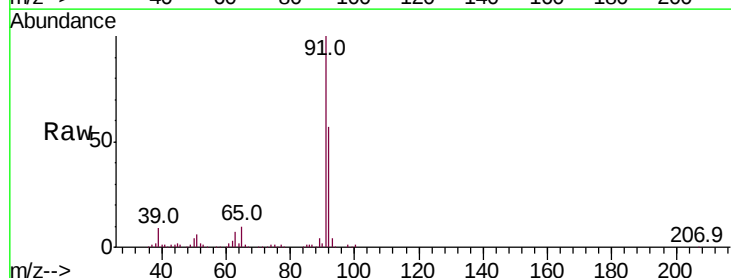
Acq: 23 May 2019 1:17

Tgt Ion: 91 Resp: 299357

Ion Ratio Lower Upper

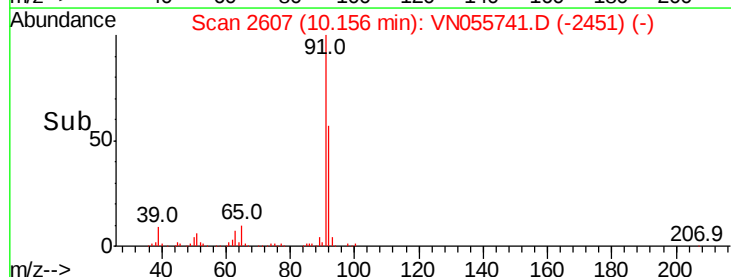
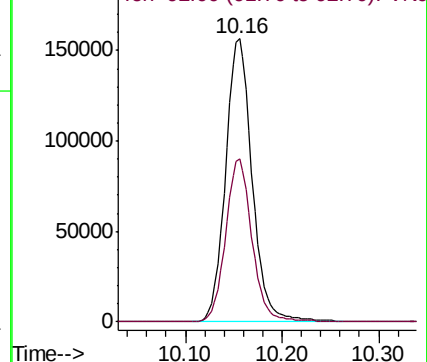
91 100

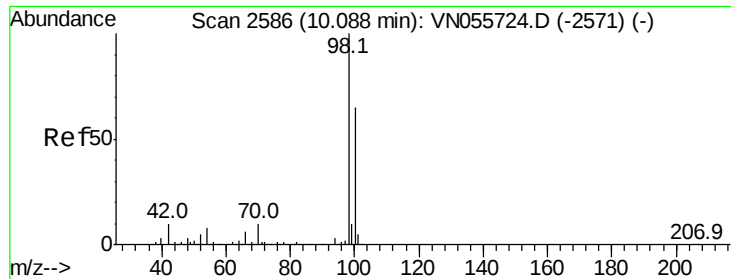
92 57.1 45.6 68.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.189 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 98 Resp: 373808

Ion Ratio Lower Upper

98 100

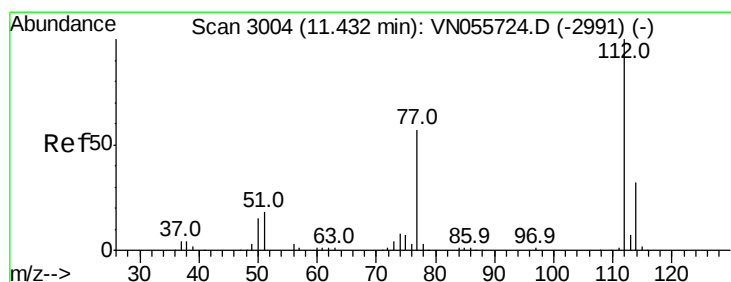
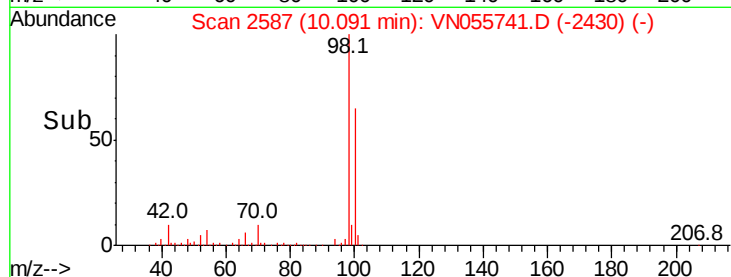
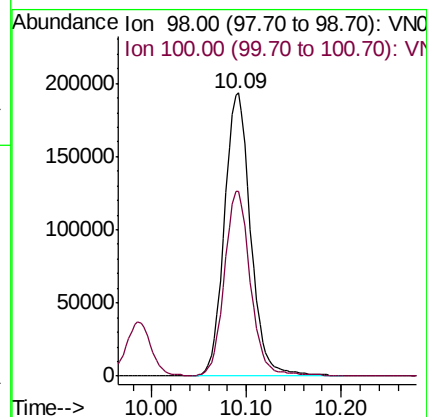
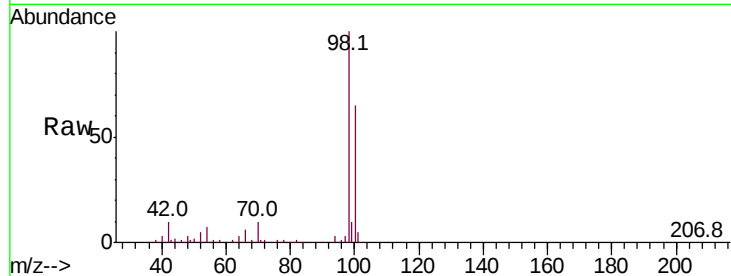
100 64.4 51.6 77.4

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#64

Chlorobenzene

Concen: 20.228 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055741.D

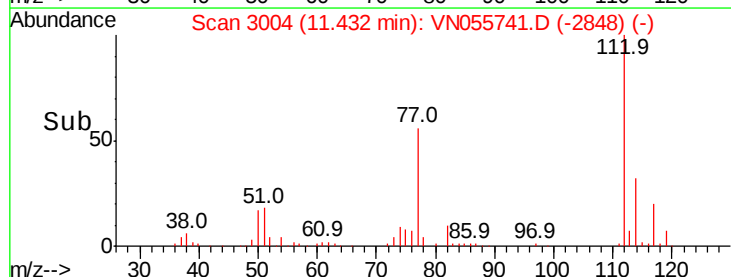
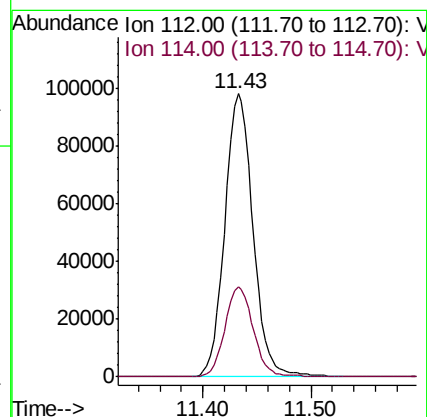
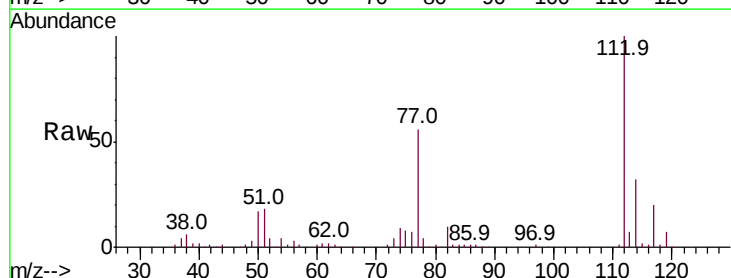
Acq: 23 May 2019 1:17

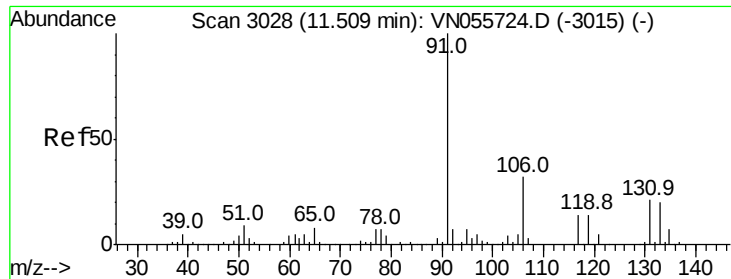
Tgt Ion: 112 Resp: 178785

Ion Ratio Lower Upper

112 100

114 31.8 25.4 38.0





#65

1,1,1,2-Tetrachloroethane

Concen: 20.419 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

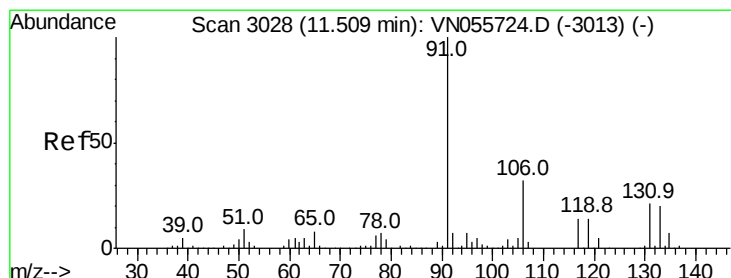
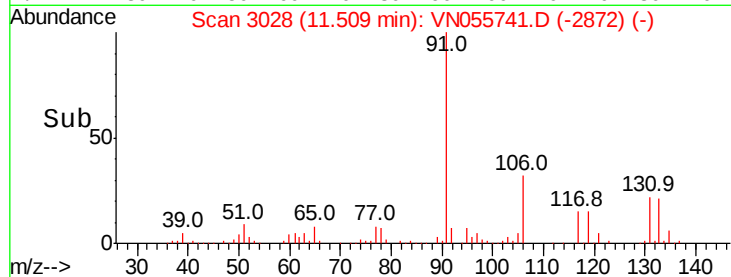
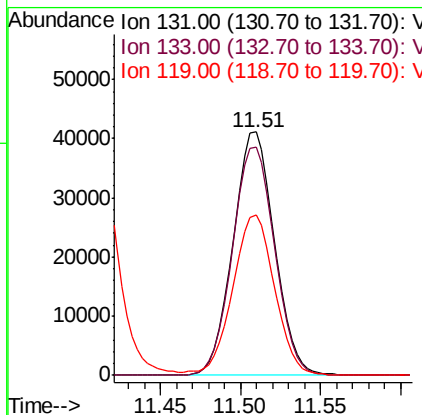
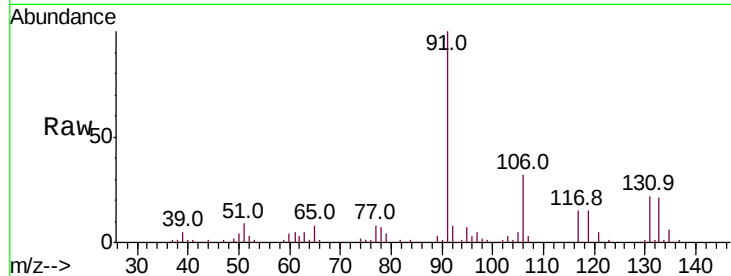
ClientSampled :

VSTDCCC020EC

Tot Ion:	131	Resp:	72715
Ion Ratio	Lower	Upper	
131	100		
133	95.4	0.0	188.8
119	66.5	0.0	133.6

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#66

Ethyl Benzene

Concen: 20.129 ug/l

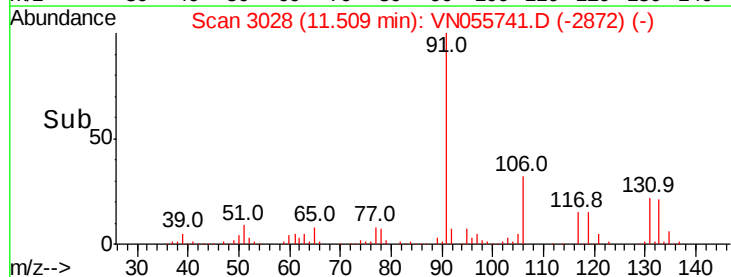
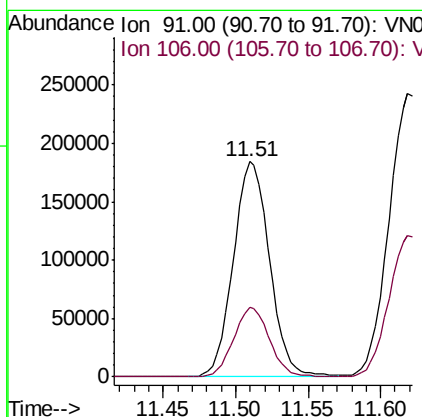
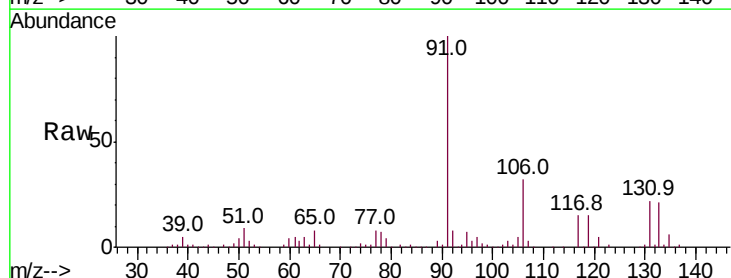
RT: 11.51 min Scan# 3028

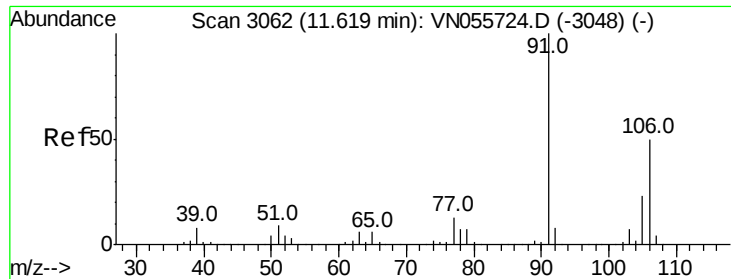
Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Tgt Ion:	91	Resp:	320449
Ion Ratio	Lower	Upper	
91	100		
106	32.2	25.6	38.4





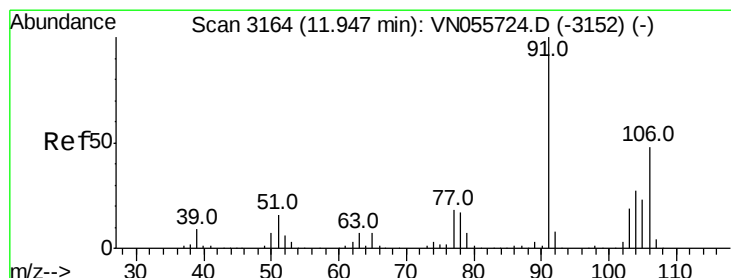
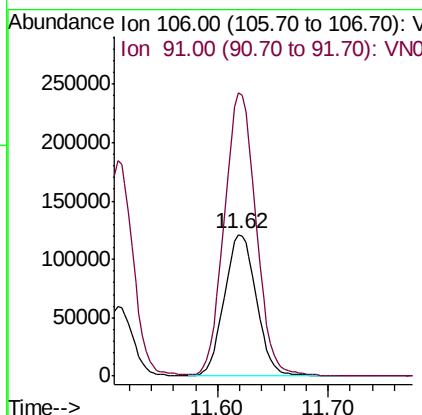
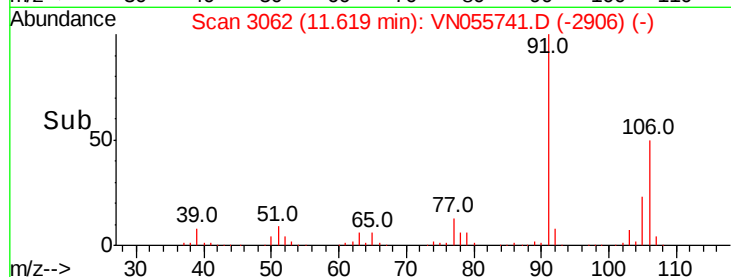
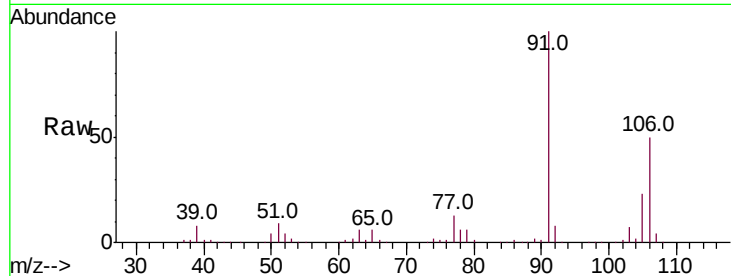
#67
m/p-Xylenes
Concen: 40.502 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020EC

Tot Ion:106 Resp: 244940
Ion Ratio Lower Upper
106 100
91 198.6 159.5 239.3

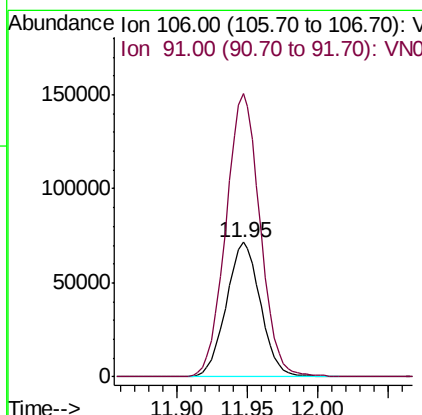
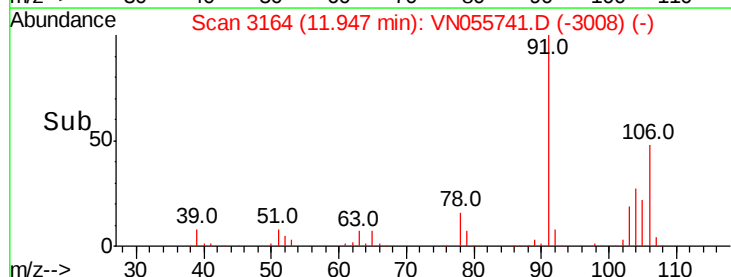
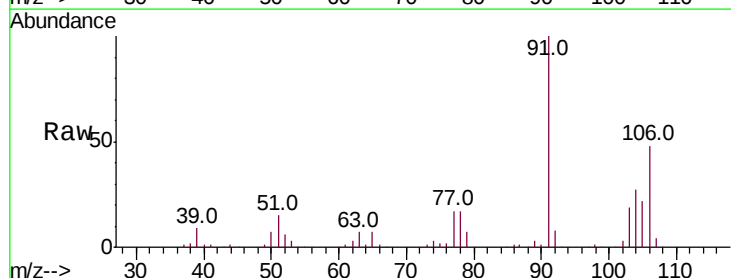
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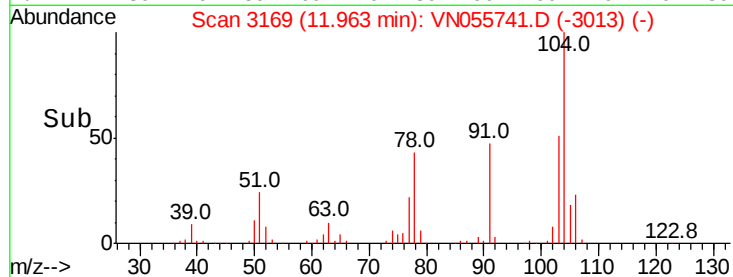
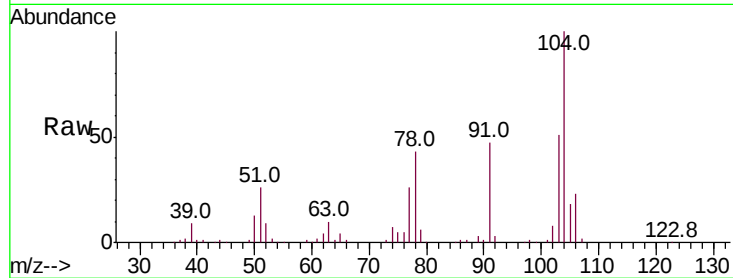
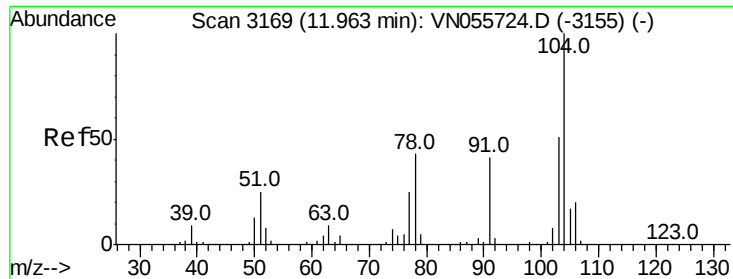
MMDadoda
5/23/2019 12:30:05 PM



#68
o-Xylene
Concen: 20.366 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion:106 Resp: 121880
Ion Ratio Lower Upper
106 100
91 209.2 105.4 316.1





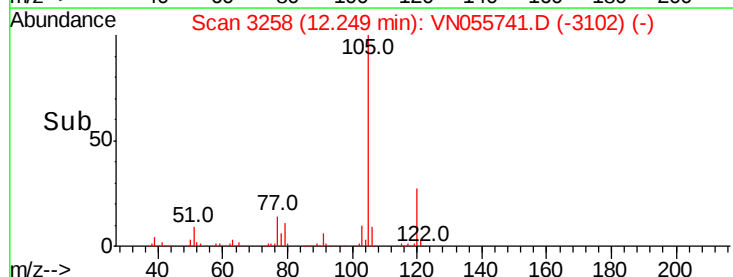
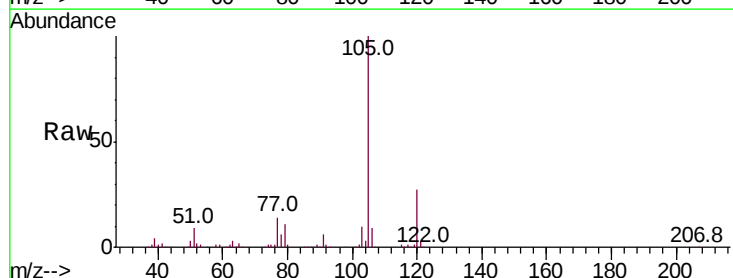
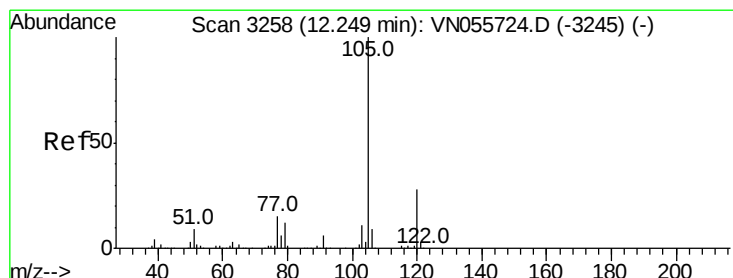
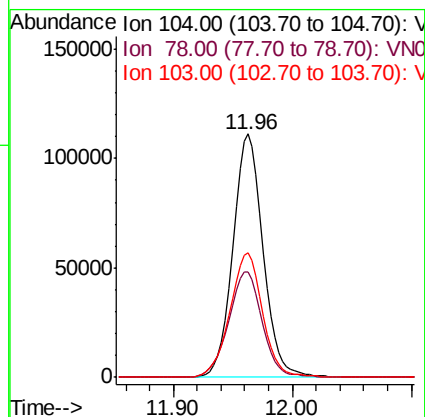
#69
Stvrene
Concen: 19.749 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.4	38.7	58.1
103	55.5	45.0	67.6

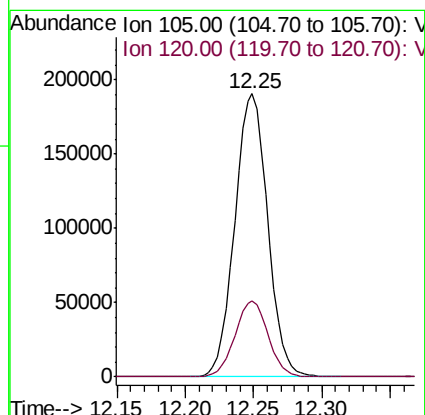
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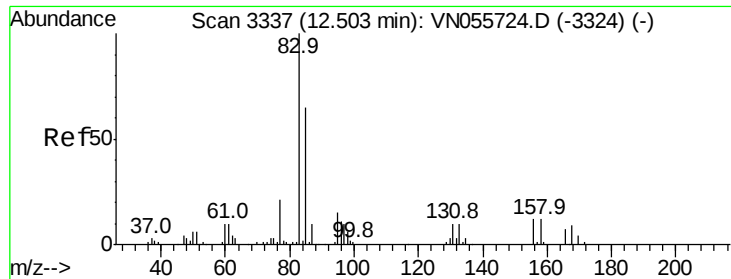
MMDadoda
5/23/2019 12:30:05 PM



#70
Isopropylbenzene
Concen: 20.381 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055741.D
Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	19.2	35.6





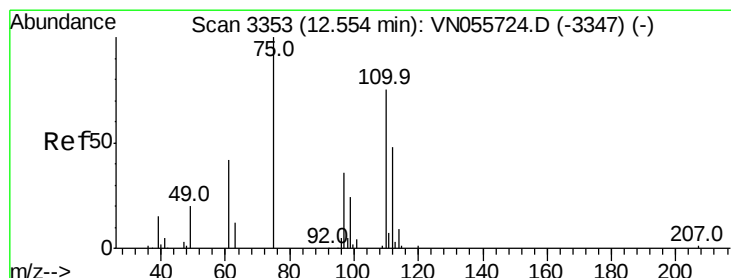
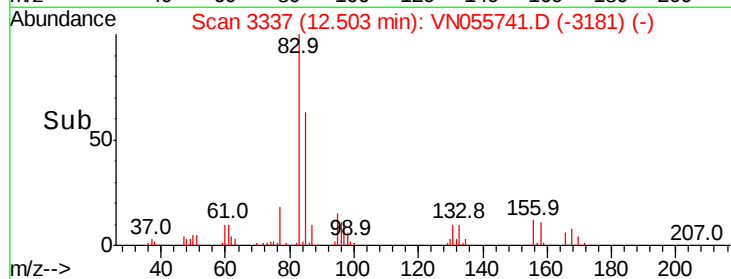
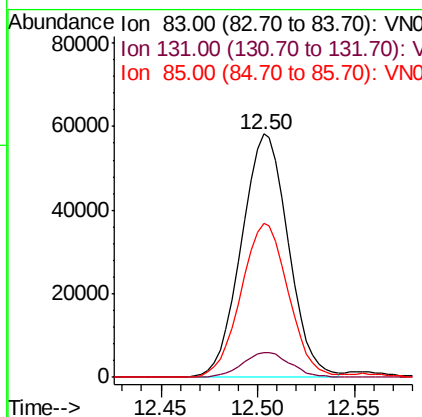
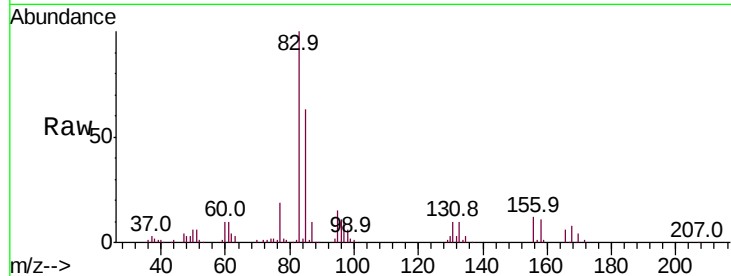
#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.417 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	83	Resp	98387
Ion Ratio	100	Lower	Upper
131	10.6	5.3	15.8
85	64.3	32.3	96.9

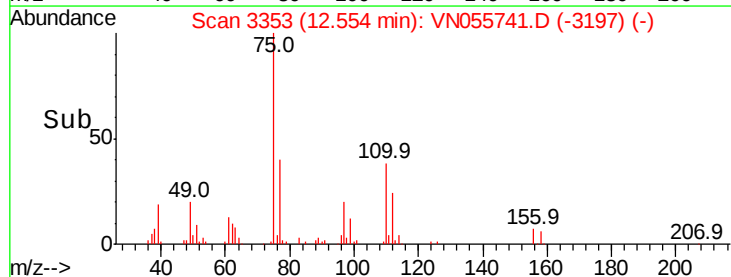
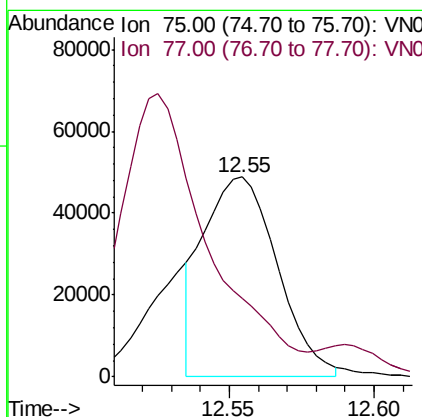
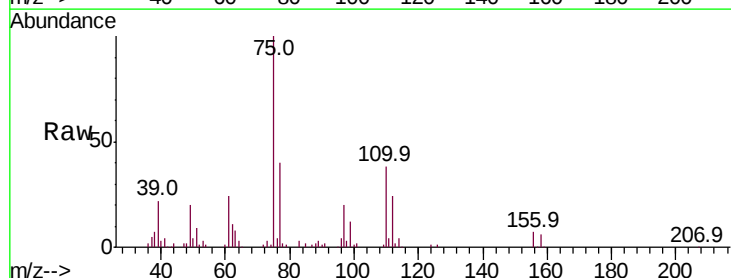
Manual Integrations
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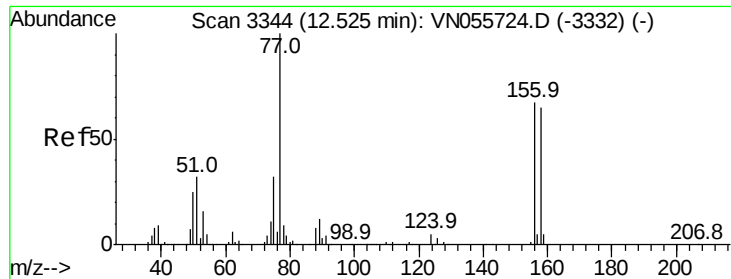
MMDadoda
 5/23/2019 12:30:05 PM



#72
 1,2,3-Trichloropropane
 Concen: 20.746 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	75	Resp	86042
Ion Ratio	100	Lower	Upper
77	173.0	0.0	349.8





#73

Bromobenzene

Concen: 19.707 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

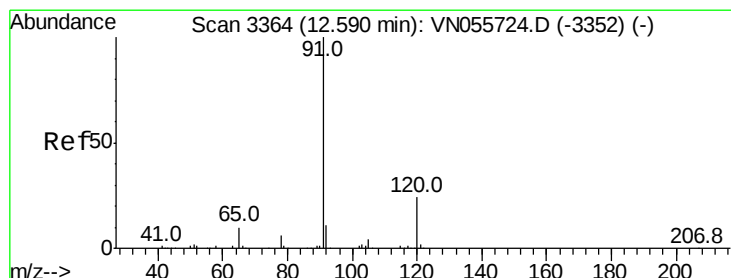
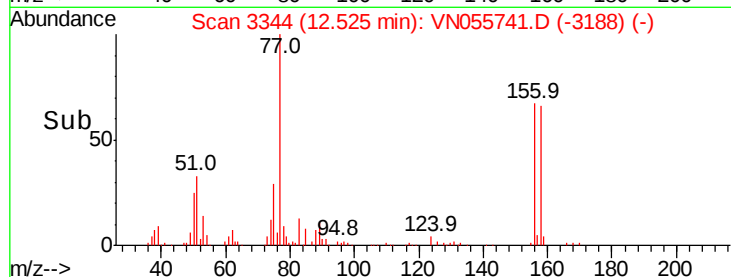
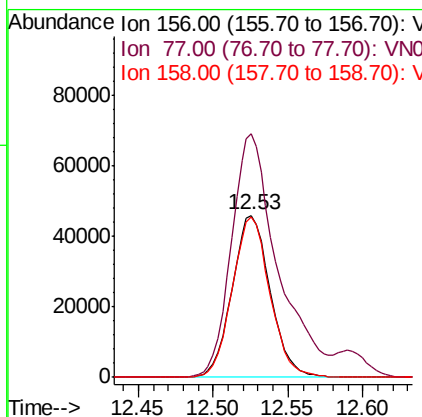
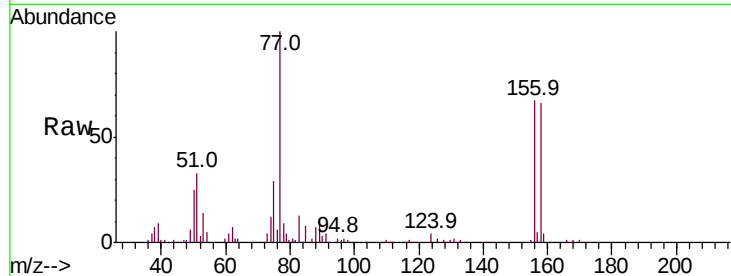
ClientSampleId :

VSTDCCC020EC

Tot Ion:	156	Resp:	81636
Ion Ratio	Lower	Upper	
156	100		
77	182.4	0.0	368.0
158	97.6	0.0	195.0

Manual Integrations
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#74

n-propylbenzene

Concen: 19.577 ug/l

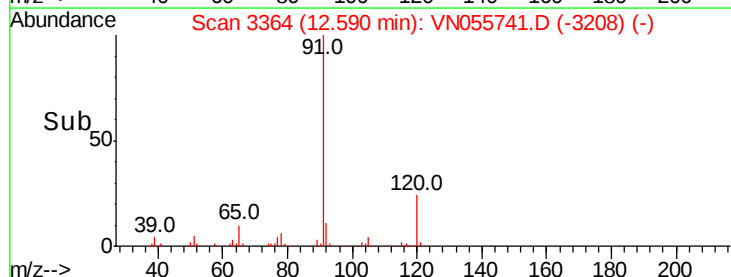
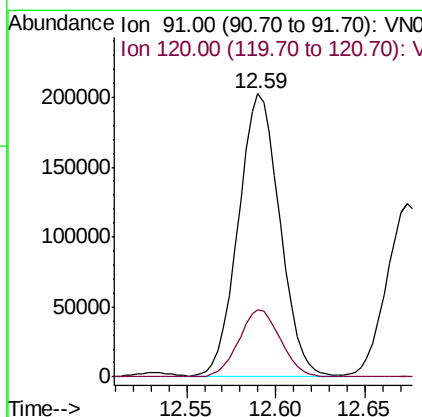
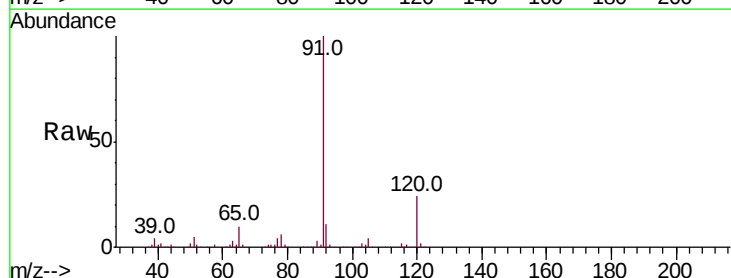
RT: 12.59 min Scan# 3364

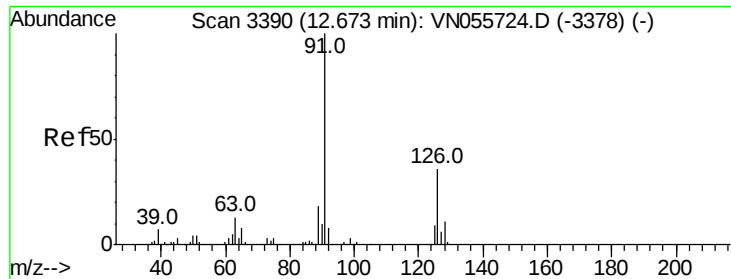
Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Tgt Ion:	91	Resp:	330611
Ion Ratio	Lower	Upper	
91	100		
120	24.0	0.0	47.4





#75

2-Chlorotoluene

Concen: 20.153 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020EC

Tot Ion: 91 Resp: 207891

Ion Ratio Lower Upper

91 100

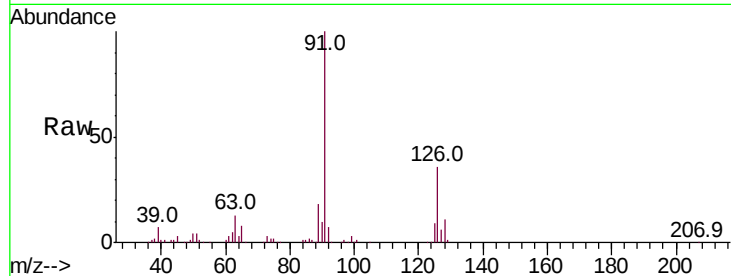
126 35.6 0.0 71.0

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) (-)

200000

150000

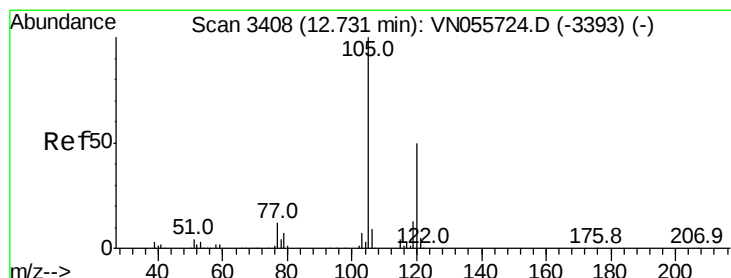
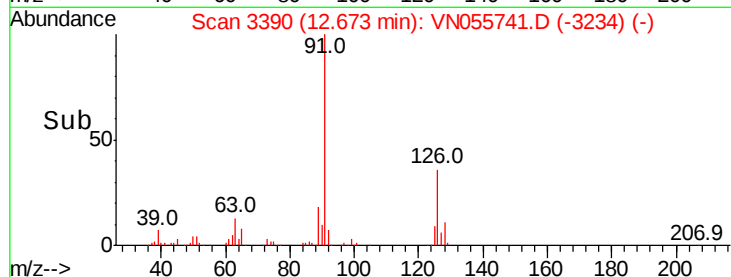
100000

50000

0

12.60 12.65 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 20.122 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055741.D

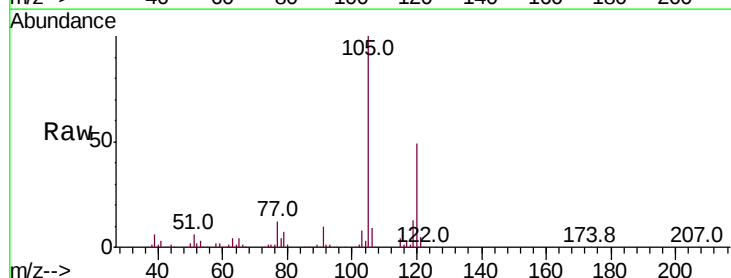
Acq: 23 May 2019 1:17

Tgt Ion: 105 Resp: 260428

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) (-)

150000

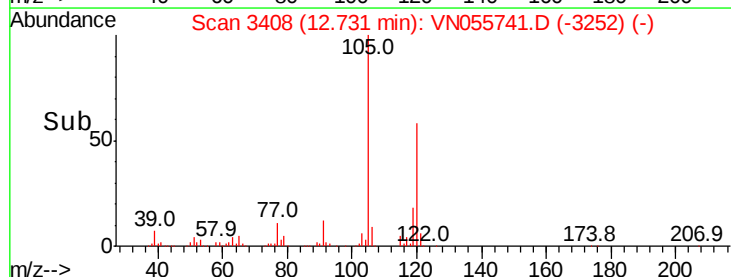
100000

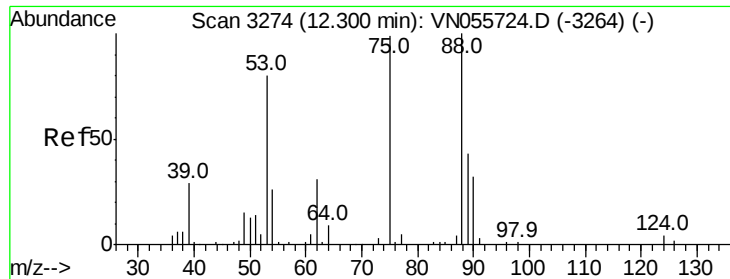
50000

0

12.65 12.70 12.75 12.80

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 16.970 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

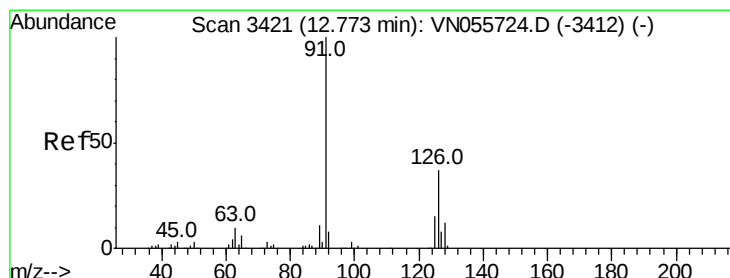
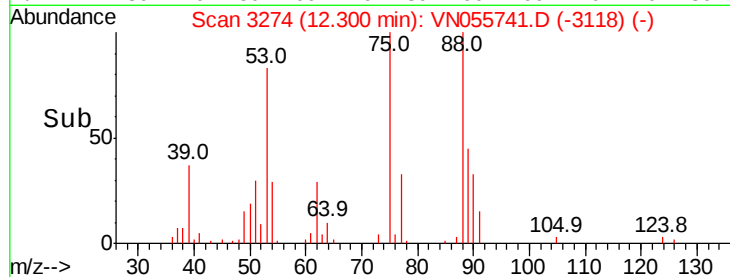
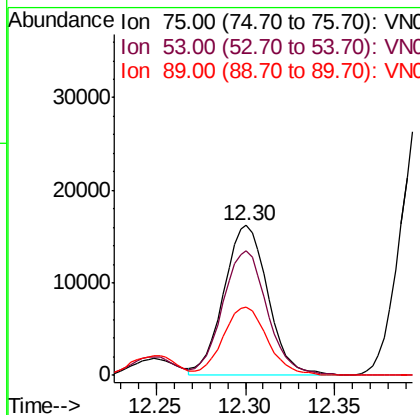
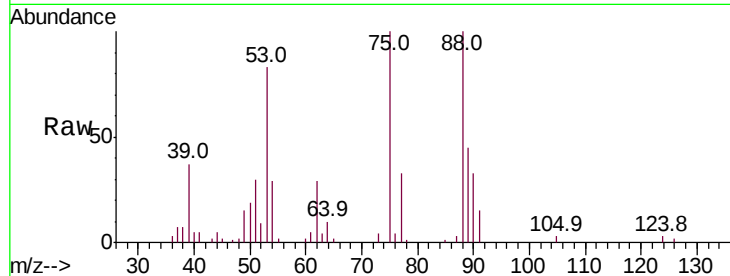
ClientSampleId :

VSTDCCC020EC

Tot Ion:	75	Resp:	27956
Ion Ratio	Lower	Upper	
75	100		
53	83.3	40.1	120.3
89	45.6	22.6	67.8

Manual Integrations
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#78

4-Chlorotoluene

Concen: 19.465 ug/l

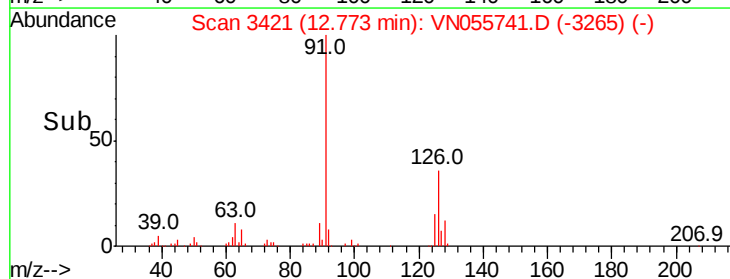
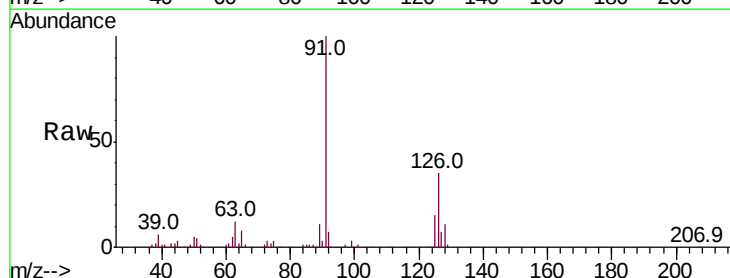
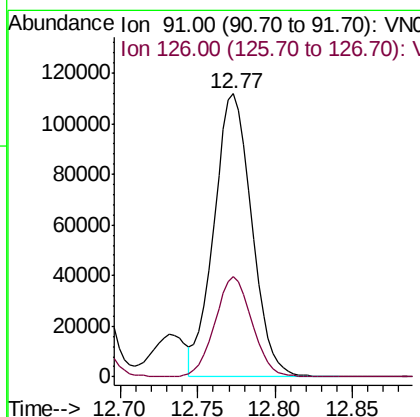
RT: 12.77 min Scan# 3421

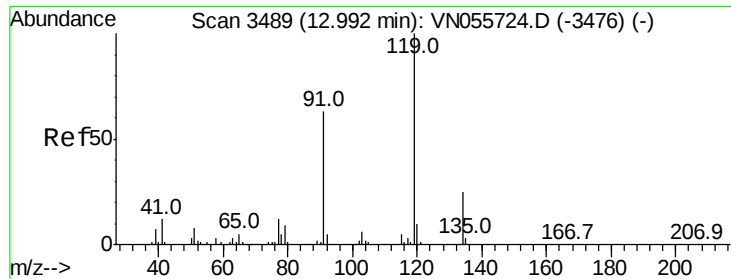
Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Tgt Ion:	91	Resp:	190301
Ion Ratio	Lower	Upper	
91	100		
126	34.8	0.0	69.0





#79

tert-butylbenzene

Concen: 20.368 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

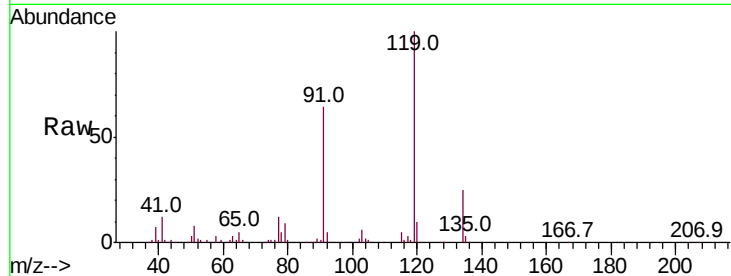
ClientSampleId :

VSTDCCC020EC

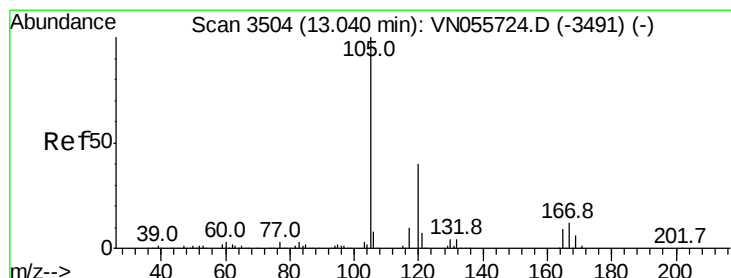
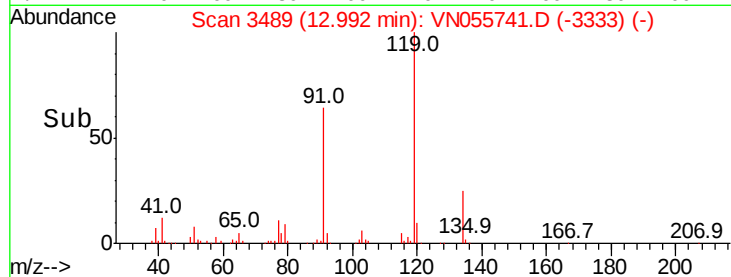
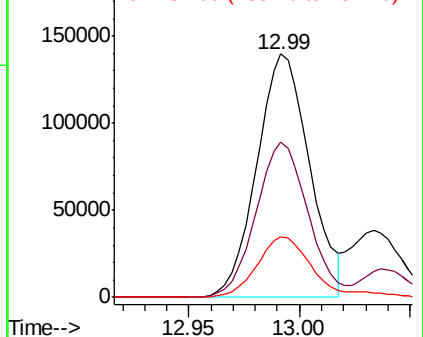
Tot Ion	Ratio	Resp	Lower	Upper
119	100	231761		
91	62.8	0.0	123.8	
134	26.6	0.0	52.6	

Manual Integrations
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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 20.087 ug/l

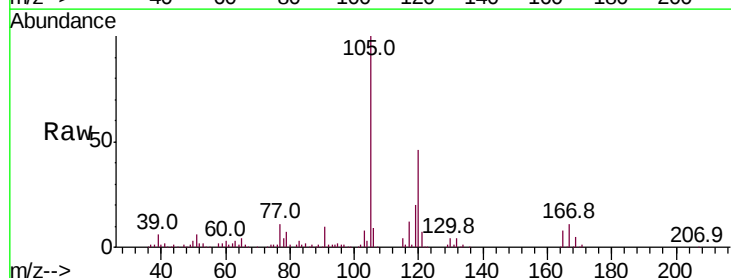
RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

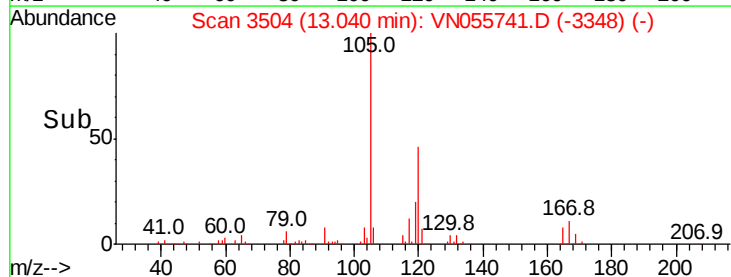
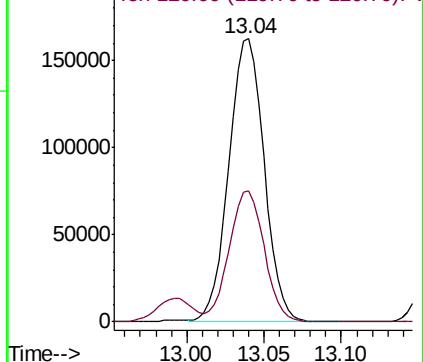
Lab File: VN055741.D

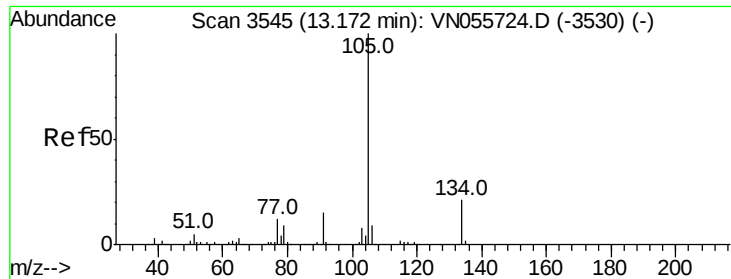
Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	258091		
120	46.0	0.0	93.6	



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





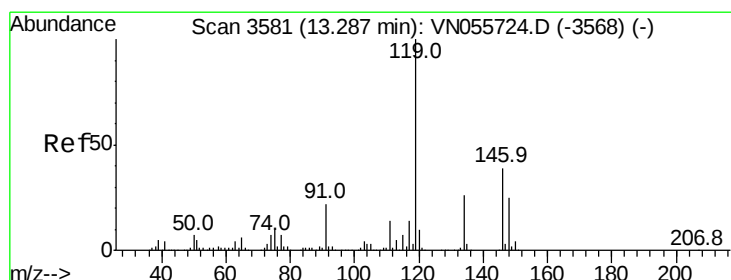
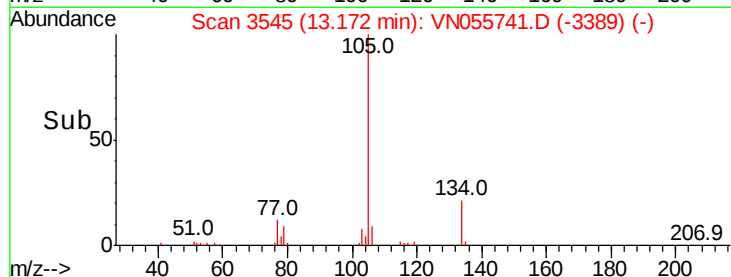
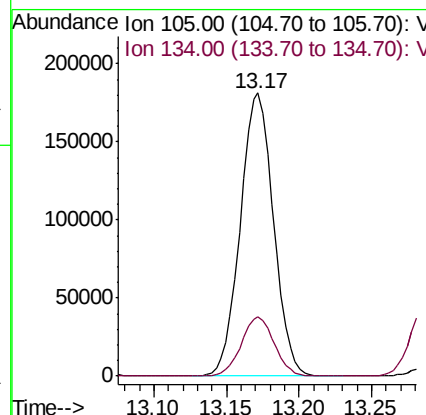
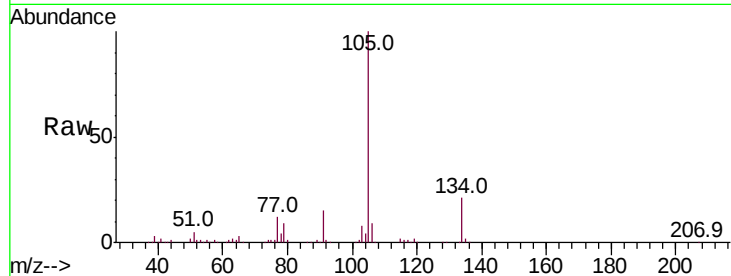
#81
 sec-Butylbenzene
 Concen: 19.942 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
105	100	288301		
134	20.8	0.0	41.4	

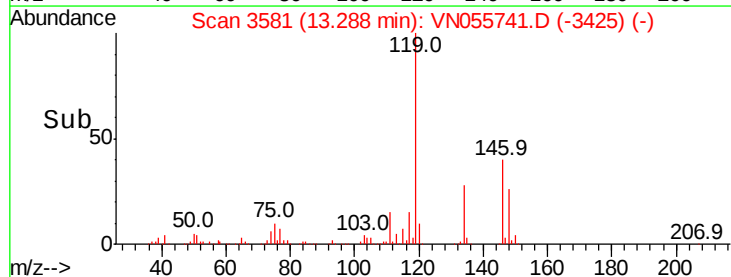
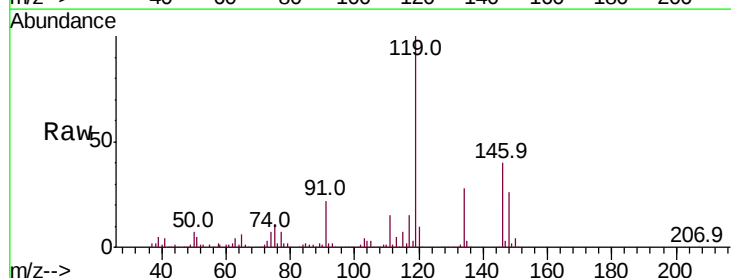
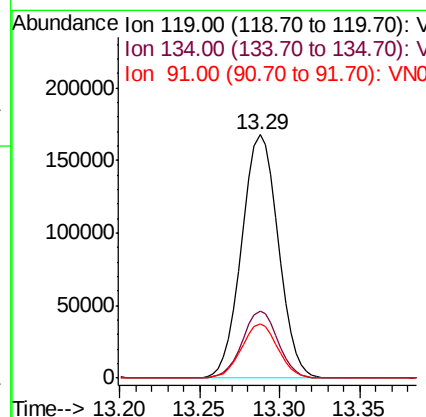
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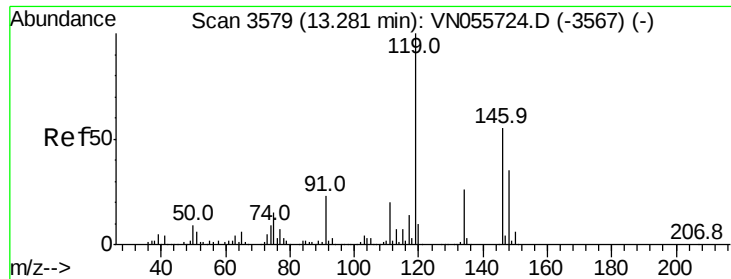
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#82
 p-Isopropyltoluene
 Concen: 19.646 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	261390		
134	27.0	0.0	52.0	
91	21.9	0.0	44.4	





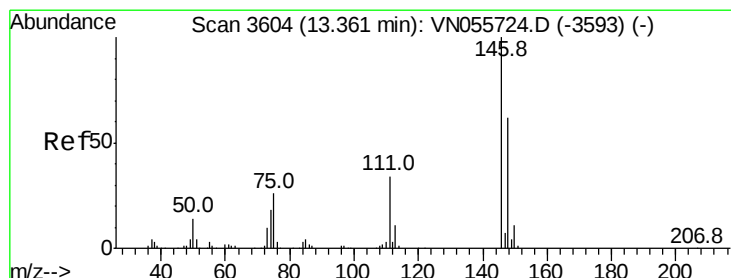
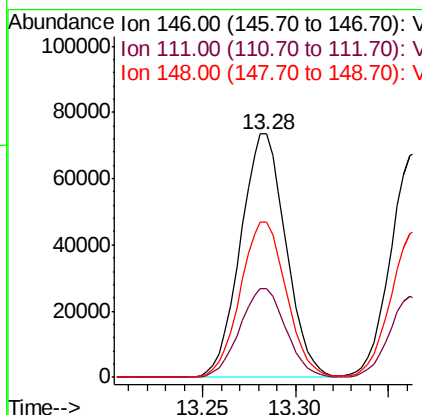
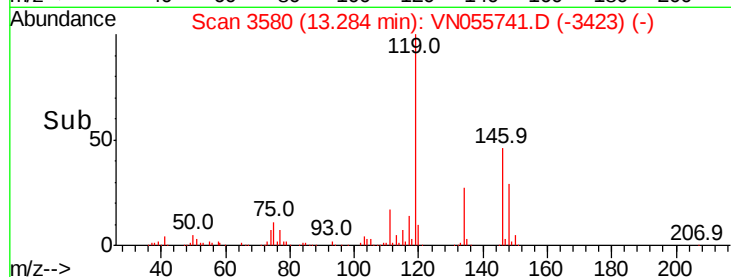
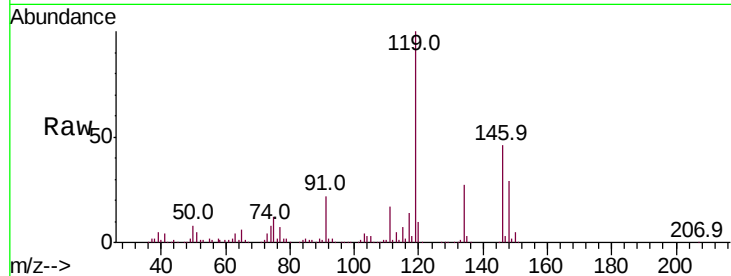
#83
 1,3-Dichlorobenzene
 Concen: 19.249 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.6	55.6
148	64.5	32.2	96.6

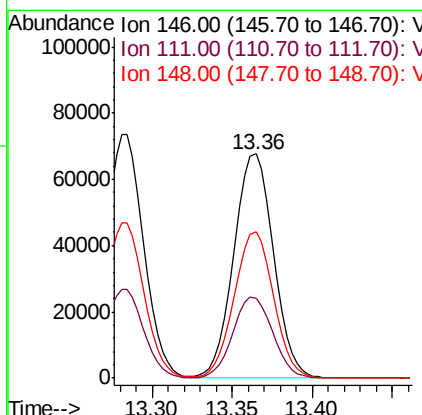
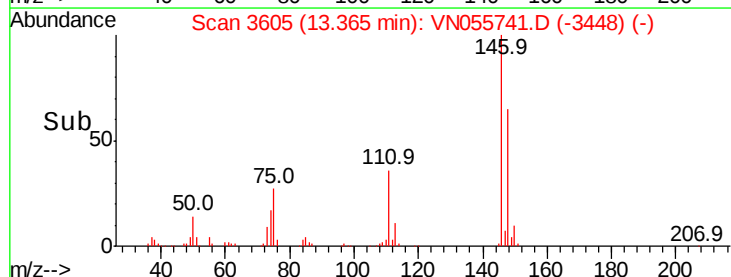
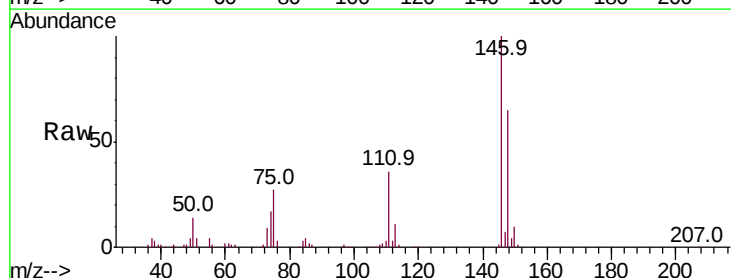
Manual Integrations
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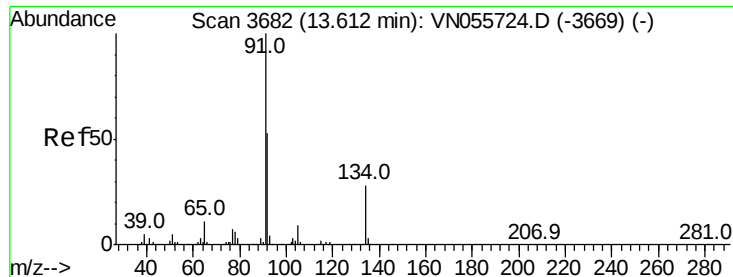
MMDadoda
 5/23/2019 12:30:05 PM



#84
 1,4-Dichlorobenzene
 Concen: 18.554 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.2	17.5	52.6
148	64.5	31.8	95.4





#85

n-Butylbenzene

Concen: 18.534 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

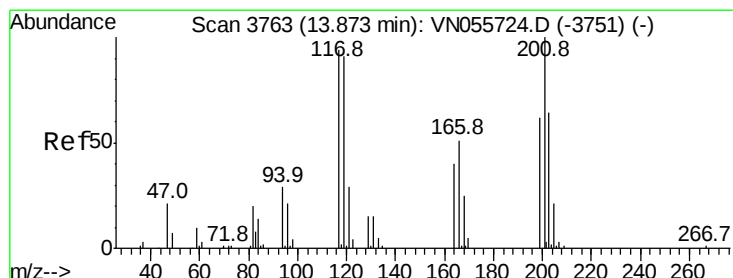
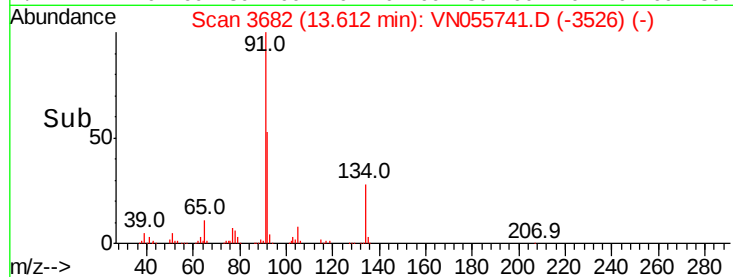
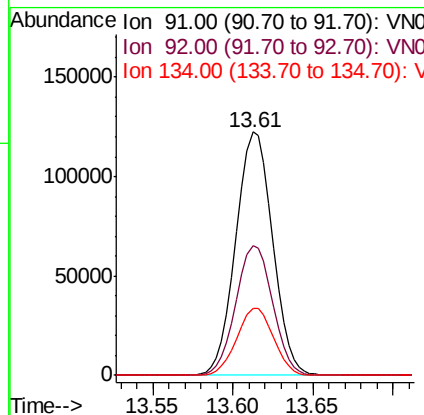
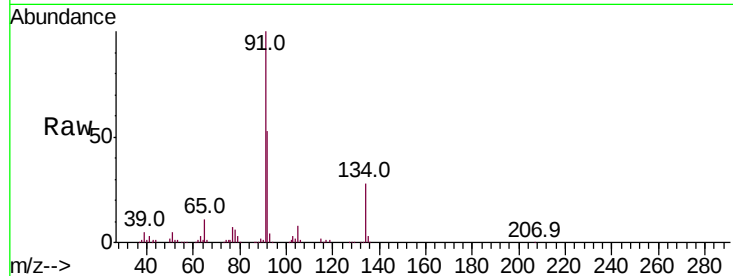
ClientSampleId :

VSTDCCC020EC

Tot Ion:	91	Resp:	191844
Ion Ratio	Lower	Upper	
91	100		
92	53.4	0.0	106.8
134	27.5	0.0	55.2

Manual Integrations
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#86

Hexachloroethane

Concen: 19.791 ug/l

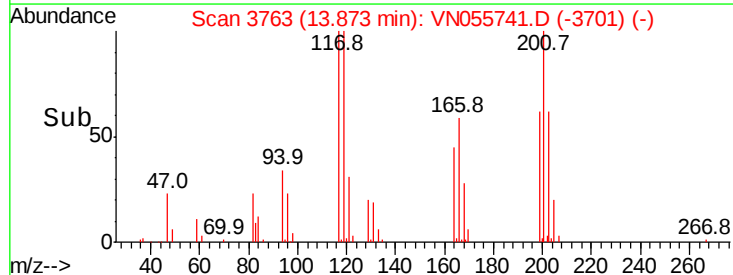
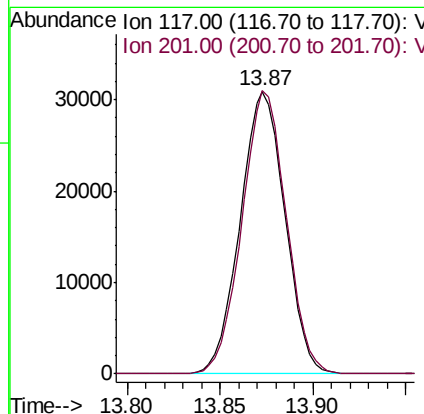
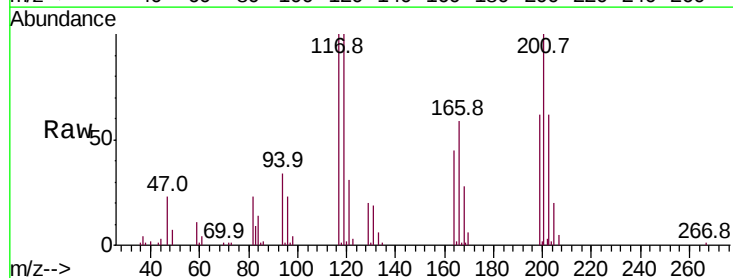
RT: 13.87 min Scan# 3763

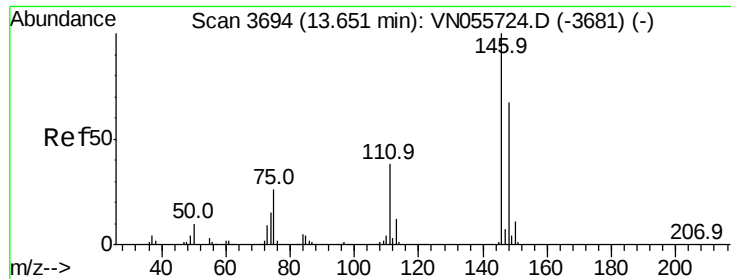
Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Tgt Ion:	117	Resp:	51793
Ion Ratio	Lower	Upper	
117	100		
201	98.9	52.5	157.6





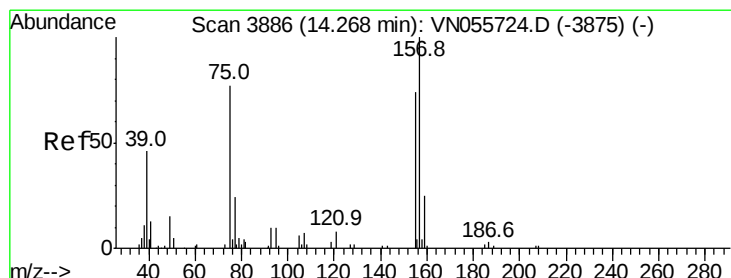
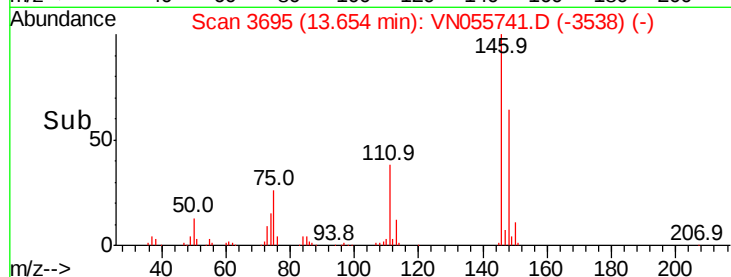
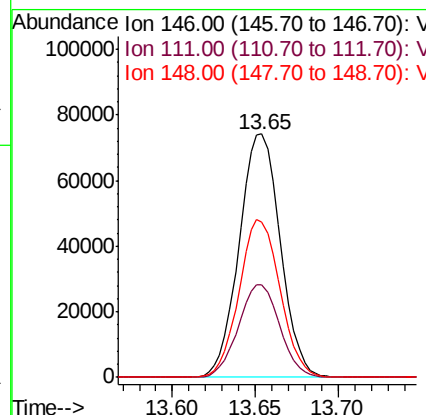
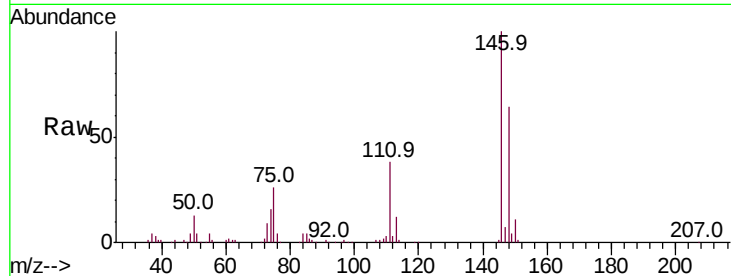
#87
 1,2-Dichlorobenzene
 Concen: 19.591 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	19.2	57.6
148	64.5	32.7	98.1

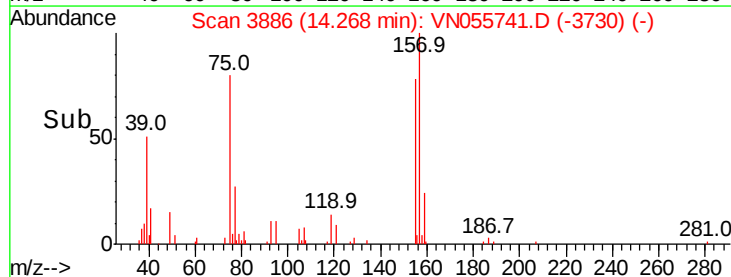
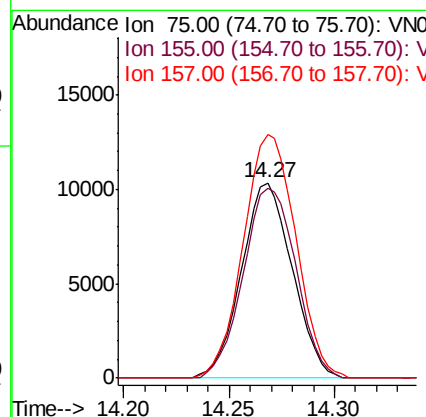
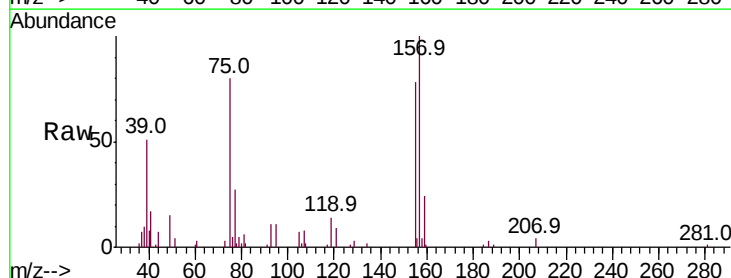
Manual Integrations
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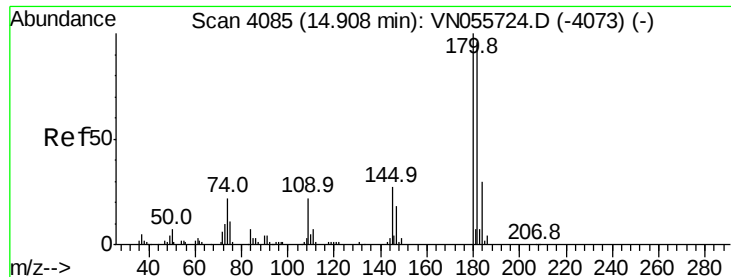
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 18.979 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	100.9	78.4	117.6
157	129.3	105.0	157.4





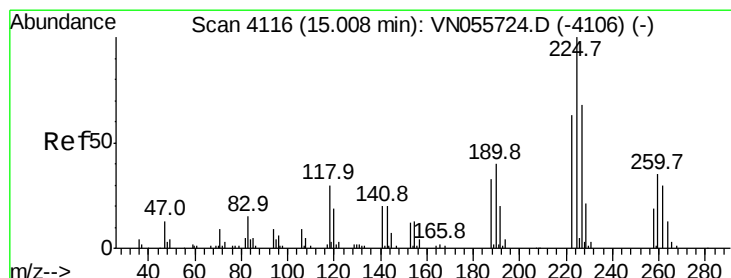
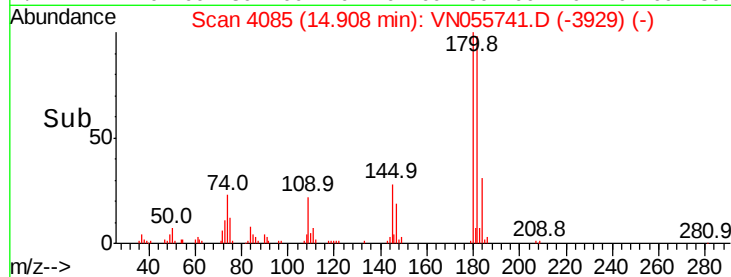
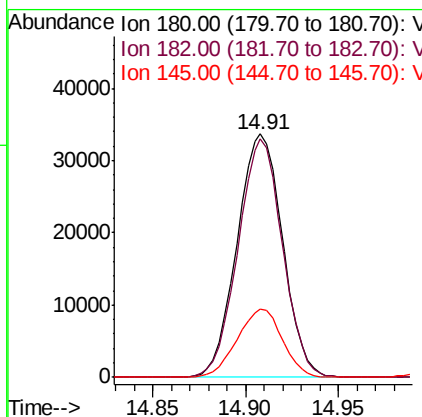
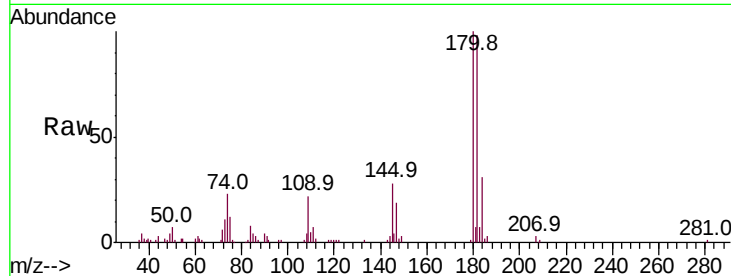
#89
 1,2,4-Trichlorobenzene
 Concen: 16.323 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.1	114.1
145	27.8	21.8	32.8

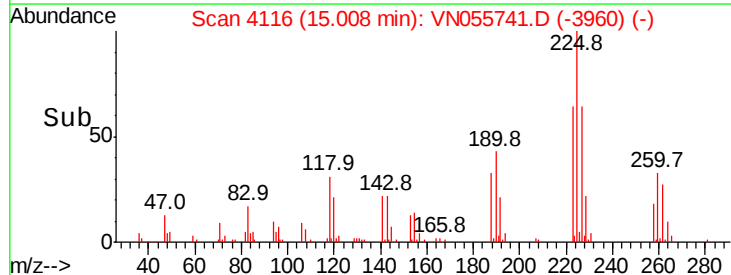
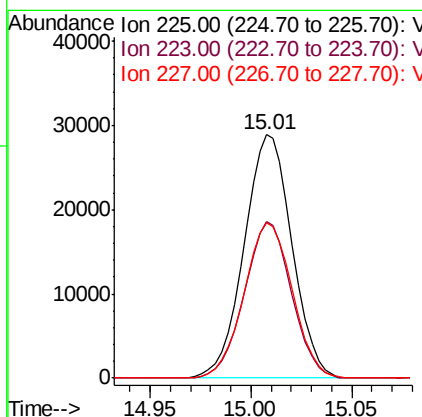
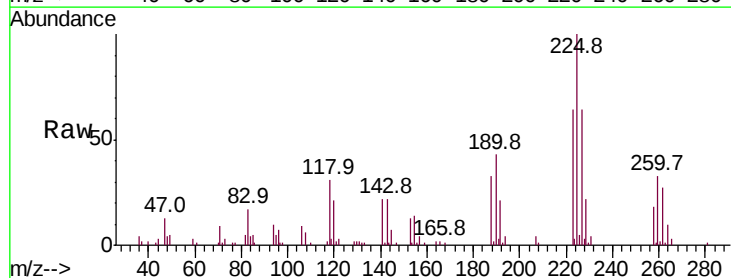
Manual Integrations
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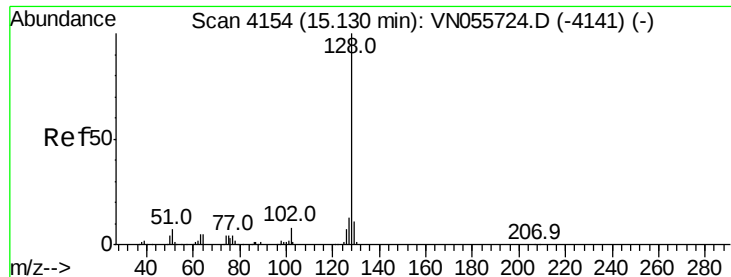
MMDadoda
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#90
 Hexachlorobutadiene
 Concen: 18.175 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055741.D
 Acq: 23 May 2019 1:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	0.0	126.0
227	64.4	0.0	133.0





#91

Naphthalene

Concen: 17.146 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Instrument :

MSVOA_N

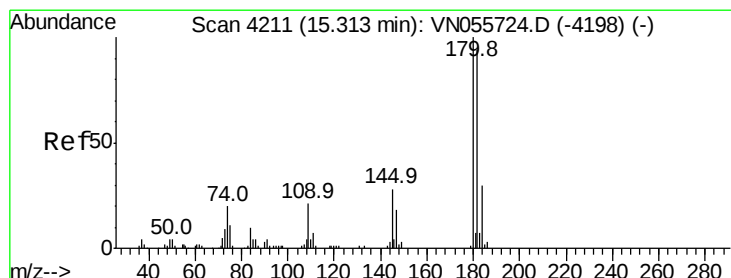
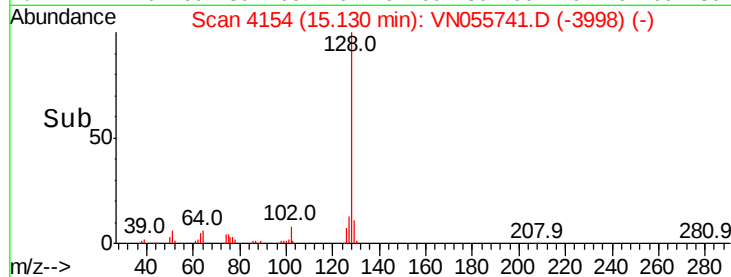
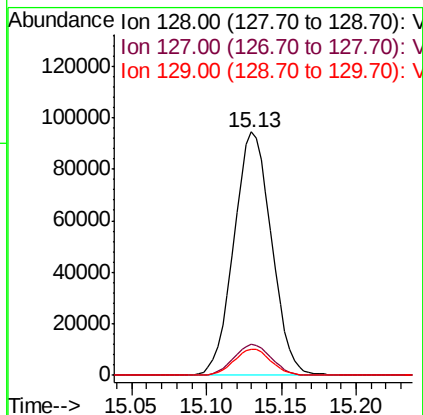
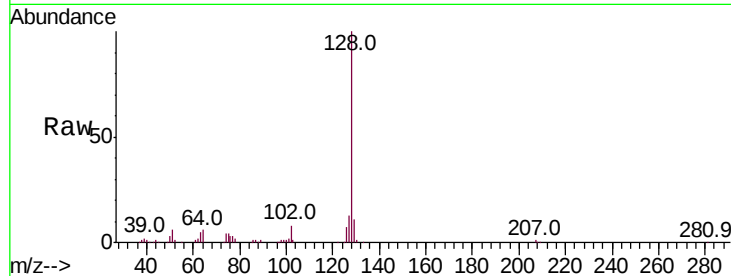
ClientSampleId :

VSTDCCC020EC

Tot Ion:	128	Resp:	165351
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.0	15.0
129	10.5	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
5/23/2019 12:30:05 PM



#92

1,2,3-Trichlorobenzene

Concen: 17.258 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055741.D

Acq: 23 May 2019 1:17

Tgt Ion:	180	Resp:	63661
Ion Ratio	Lower	Upper	
180	100		
182	96.6	0.0	188.6
145	30.3	0.0	56.8

