

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062119\
 Data File : VN056439.D
 Acq On : 21 Jun 2019 20:20
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/24/2019 4:16:02 PM

Quant Time: Jun 22 03:47:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	63512	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	339046	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	300448	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	127005	32.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.33%
60) 4-Bromofluorobenzene	12.40	95	132799	29.82	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.40%
63) Toluene-d8	10.09	98	415749	30.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	74998	20.995	ug/l 100
3) Chloromethane	2.06	50	88586	21.225	ug/l 100
4) Vinyl Chloride	2.18	62	86795	20.397	ug/l 100
5) Bromomethane	2.52	94	51751	19.351	ug/l 99
6) Chloroethane	2.68	64	50969	21.176	ug/l 93
7) Trichlorofluoromethane	3.00	101	110552	20.997	ug/l 99
8) Diethyl Ether	3.41	74	46335	20.750	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	67512	20.773	ug/l 97
10) 1,1-Dichloroethene	3.73	96	67279	20.293	ug/l 97
11) Methyl Iodide	3.95	142	90322	17.268	ug/l 99
12) Methyl Acetate	4.33	43	93899	23.570	ug/l 97
13) Acrolein	3.61	56	18764	96.632	ug/l 98
14) Acrylonitrile	4.99	53	199280	112.167	ug/l 99
15) Acetone	3.82	58	58557	100.661	ug/l 94
16) Carbon Disulfide	4.05	76	141965	17.997	ug/l 100
17) Allyl chloride	4.32	41	110563	21.524	ug/l 100
18) Methylene Chloride	4.55	84	80441	20.959	ug/l 93
19) trans-1,2-Dichloroethene	5.04	96	71119	20.097	ug/l 97
20) Diisopropyl ether	5.95	45	234469	22.031	ug/l 98
21) 1,1-Dichloroethane	5.85	63	135742	21.947	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	85004	20.580	ug/l 96
23) tert-Butyl Alcohol	4.80	59	71056	102.751	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	223944	21.195	ug/l 100
25) Chloroform	7.37	83	131529	21.297	ug/l 100
26) Cyclohexane	7.65	56	120437	20.989	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	97802	21.325	ug/l 98
30) 2-Butanone	6.84	43	268291	111.122	ug/l 98
31) 2,2-Dichloropropane	6.82	77	84278	19.754	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	106338	20.986	ug/l 99
33) Carbon Tetrachloride	7.77	117	85314	19.873	ug/l 99
34) Benzene	8.04	78	308154	21.088	ug/l 98
35) Methacrylonitrile	7.17	41	40838	20.030	ug/l 98
36) 1,2-Dichloroethane	8.12	62	103155	22.537	ug/l 98
37) Trichloroethene	8.84	130	84074	20.561	ug/l 96
38) Methylcyclohexane	9.08	83	118680	20.412	ug/l 100
39) 1,2-Dichloropropane	9.12	63	83579	22.333	ug/l 96
40) Dibromomethane	9.21	93	53453	21.541	ug/l 95

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Manual Integrations
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Quant Time: Jun 22 03:47:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	91609	20.617	ug/l	99
42) Vinyl Acetate	5.90	43	946198	109.925	ug/l	99
43) Ethyl Acetate	6.93	43	103728	22.448	ug/l	100
44) Isopropyl Acetate	8.17	43	159685	22.257	ug/l	100
45) 1,4-Dioxane	9.20	88	34019	443.257	ug/l	97
46) Methyl methacrylate	9.20	41	76594	21.490	ug/l	96
47) n-amyl Acetate	12.07	43	126870	21.383	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	92326	19.744	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	113081	20.652	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	76349	20.715	ug/l	93
51) Ethyl methacrylate	10.43	69	115295	20.677	ug/l	98
52) 1,3-Dichloropropane	10.71	76	131372	21.986	ug/l	99
53) Dibromochloromethane	10.90	129	69322	19.214	ug/l	100
54) 1,2-Dibromoethane	11.01	107	81390	21.162	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	185493	94.974	ug/l	98
56) Bromoform	12.13	173	46587	17.849	ug/l	97
58) 4-Methyl-2-Pentanone	9.99	43	508767	111.828	ug/l	98
59) 2-Hexanone	10.75	43	365827	112.501	ug/l	99
61) Tetrachloroethene	10.63	164	82514	19.705	ug/l	96
62) Toluene	10.16	91	330958	20.405	ug/l	99
64) Chlorobenzene	11.43	112	203223	20.657	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	70642	19.913	ug/l	100
66) Ethyl Benzene	11.51	91	354428	20.517	ug/l	99
67) m/p-Xylenes	11.62	106	264980	40.074	ug/l	96
68) o-Xylene	11.95	106	133200	20.576	ug/l	98
69) Styrene	11.96	104	208253	19.801	ug/l	98
70) Isopropylbenzene	12.25	105	346827	20.506	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	109182	21.411	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	88806m	20.117	ug/l	
73) Bromobenzene	12.53	156	88696	19.757	ug/l	96
74) n-propylbenzene	12.59	91	361653	20.262	ug/l	98
75) 2-Chlorotoluene	12.67	91	230327	20.805	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	279913	20.120	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	22272	17.682	ug/l	94
78) 4-Chlorotoluene	12.77	91	205153	19.842	ug/l	98
79) tert-butylbenzene	12.99	119	257492	20.891	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	262364	19.386	ug/l	99
81) sec-Butylbenzene	13.17	105	318533	20.429	ug/l	99
82) p-Isopropyltoluene	13.29	119	269680	19.129	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	129310	18.483	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	119631	17.951	ug/l	99
85) n-Butylbenzene	13.61	91	183464	17.437	ug/l	98
86) Hexachloroethane	13.87	117	41380	18.828	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	132112	18.577	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13869	17.326	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	47180	18.013	ug/l	99
90) Hexachlorobutadiene	15.01	225	48772	18.787	ug/l	99
91) Naphthalene	15.13	128	142105	15.046	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	56783	15.254	ug/l	99

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 04:02:53 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

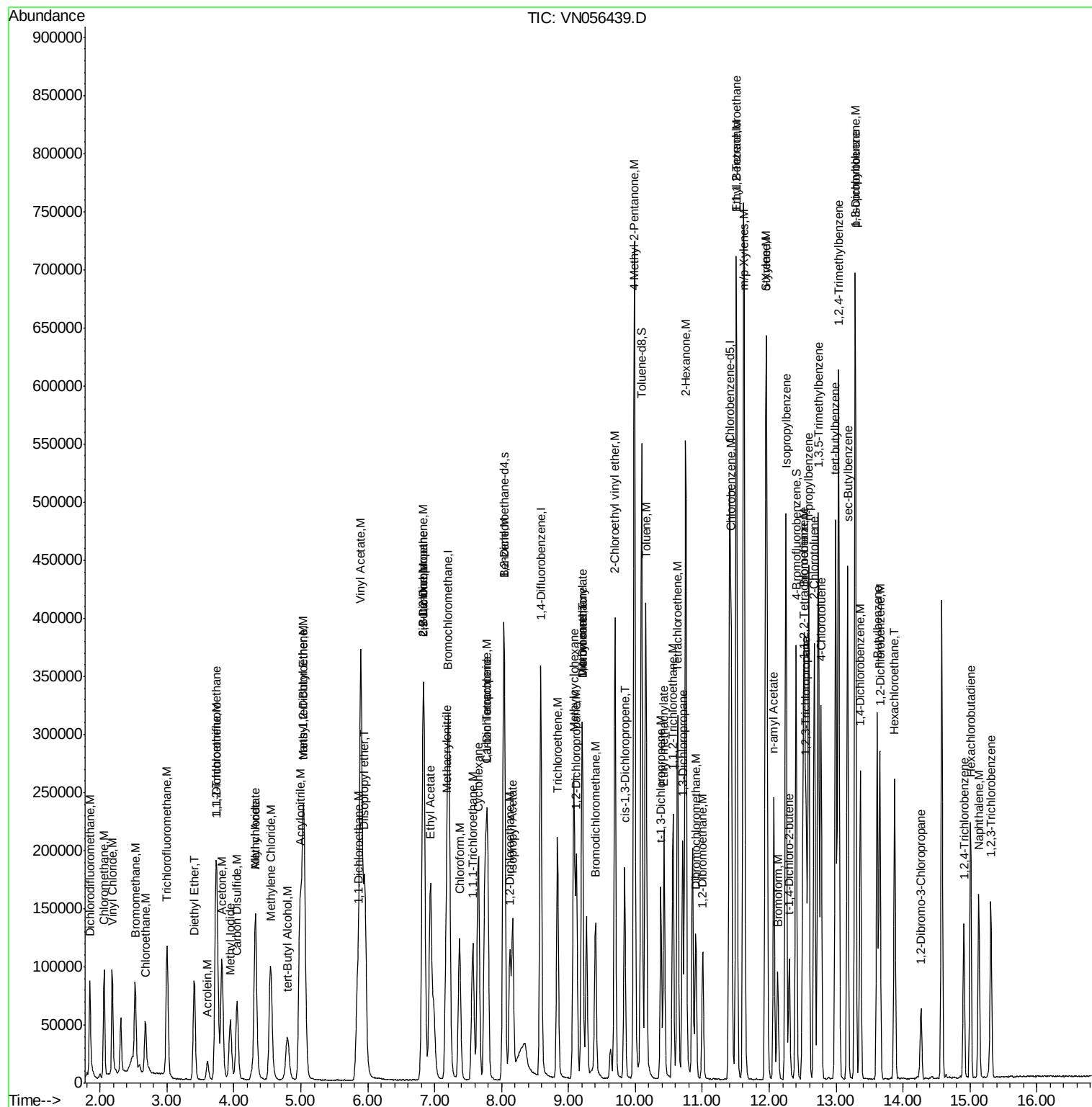
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062119\
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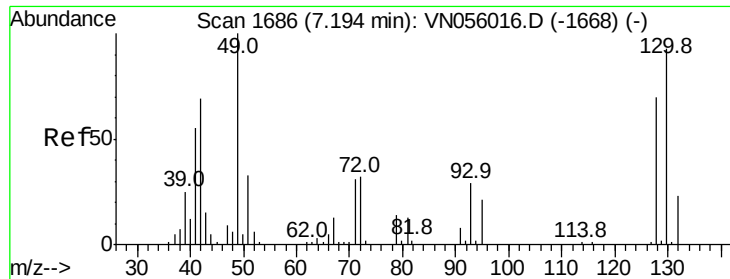
Instrument :
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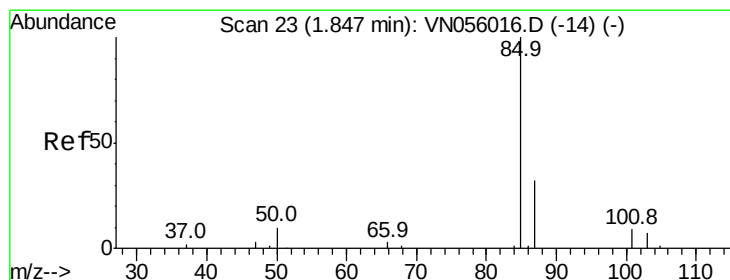
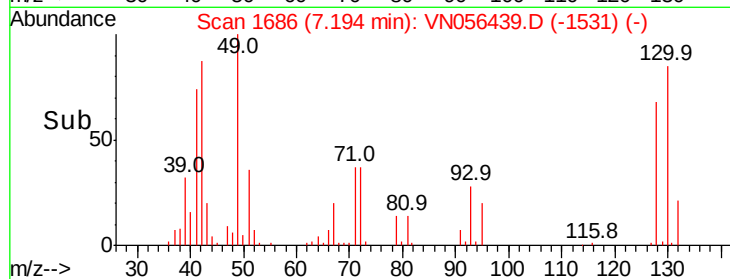
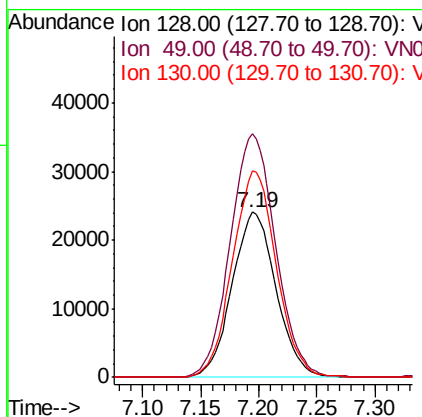
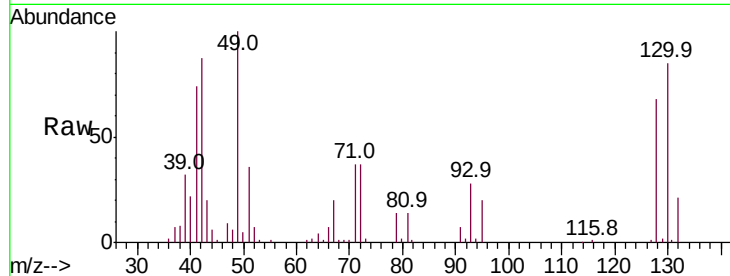
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 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
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 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
49	152.0	0.0	355.8
130	125.3	0.0	326.3

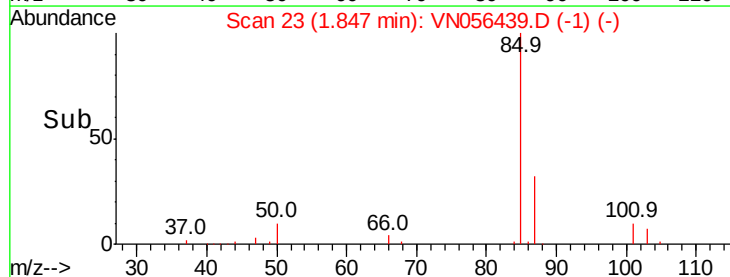
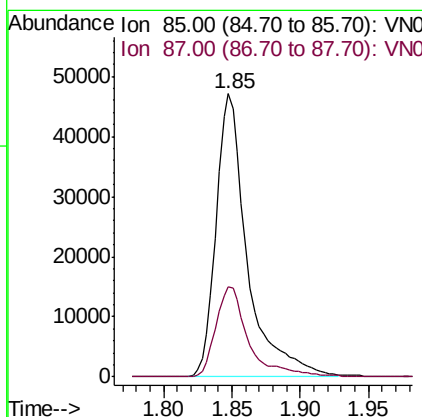
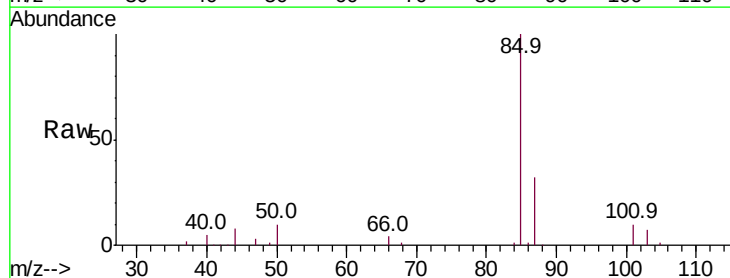
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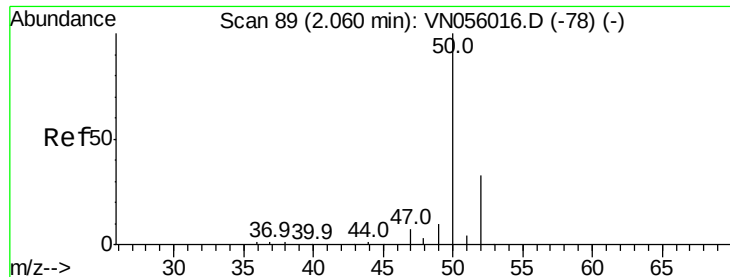
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#2
 Dichlorodifluoromethane
 Concen: 20.995 ug/l
 RT: 1.85 min Scan# 23
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.7	15.9	47.7





#3

Chloromethane

Concen: 21.225 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 88586

Ion Ratio Lower Upper

50 100

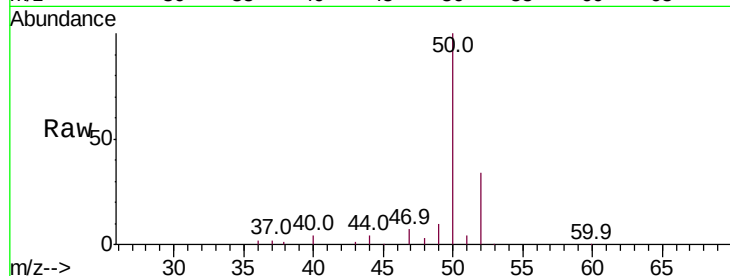
52 33.5 26.7 40.1

Manual Integrations

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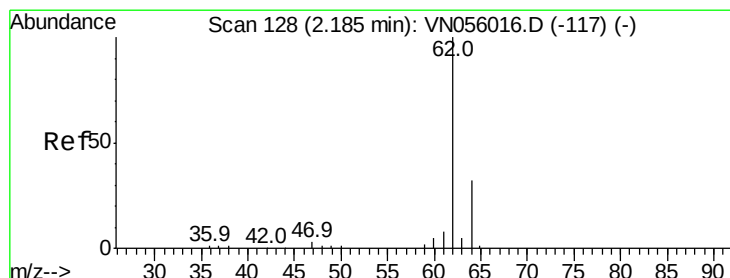
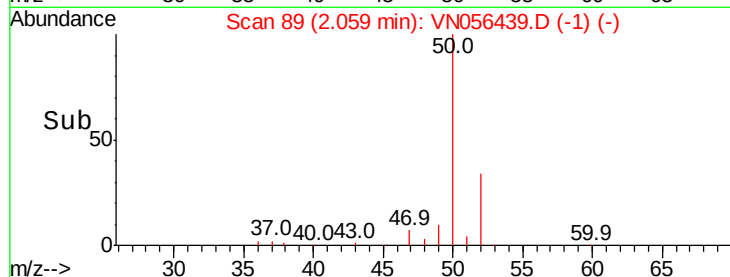
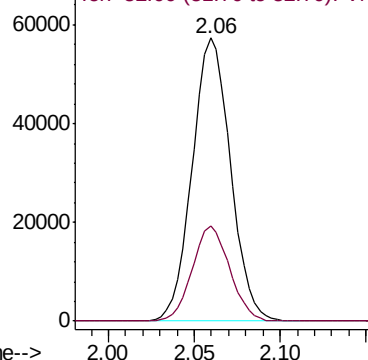
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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 20.397 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN056439.D

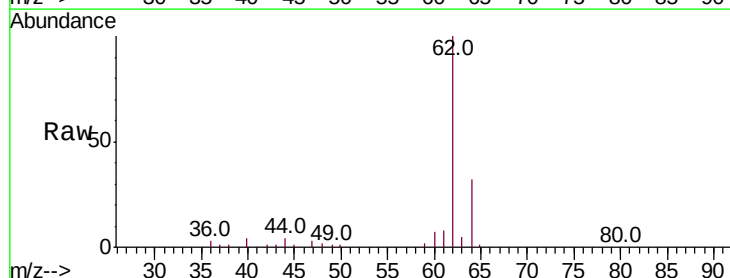
Acq: 21 Jun 2019 20:20

Tgt Ion: 62 Resp: 86795

Ion Ratio Lower Upper

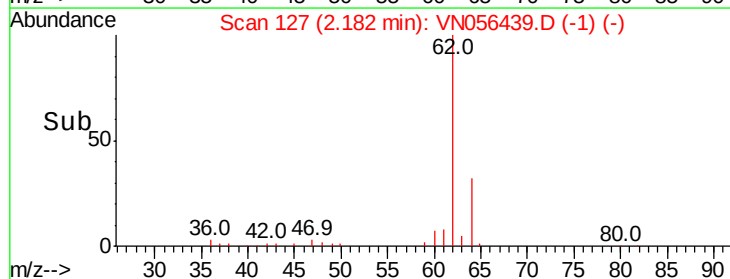
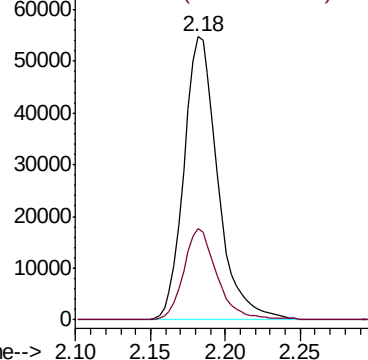
62 100

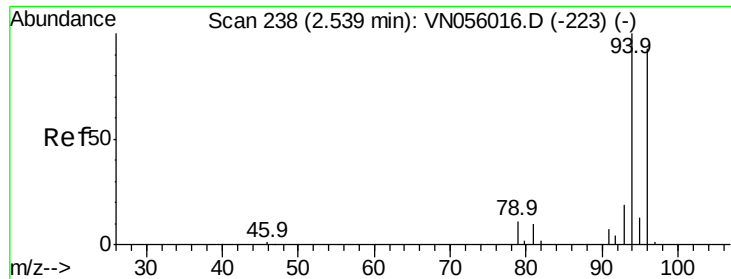
64 32.3 25.8 38.8



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





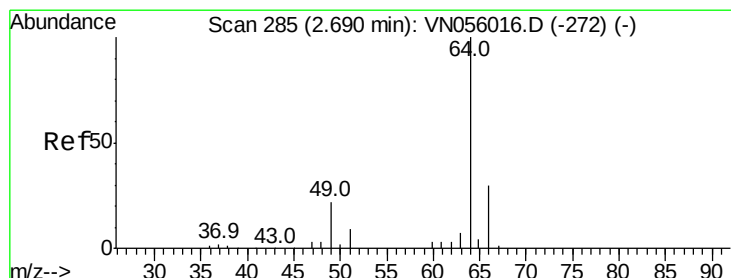
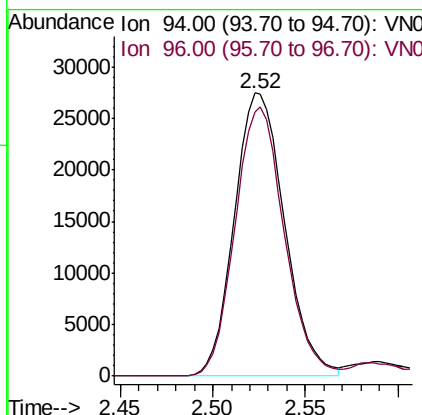
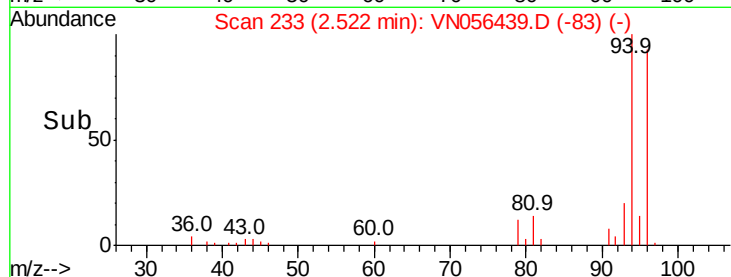
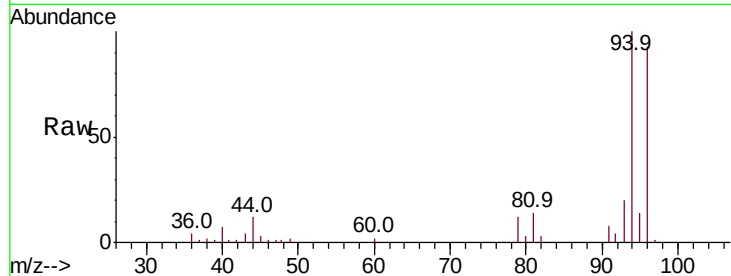
#5
Bromomethane
Concen: 19.351 ug/l
RT: 2.52 min Scan# 233
Delta R.T. -0.02 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
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Tot Ion: 94 Resp: 51751
Ion Ratio Lower Upper
94 100
96 93.4 74.1 111.1

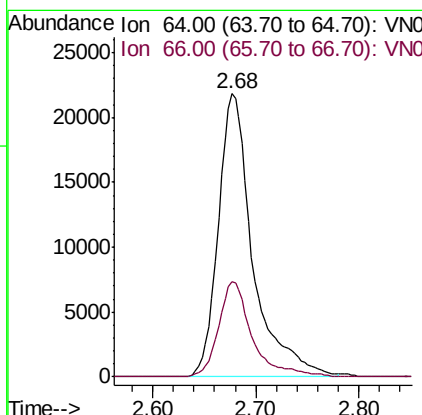
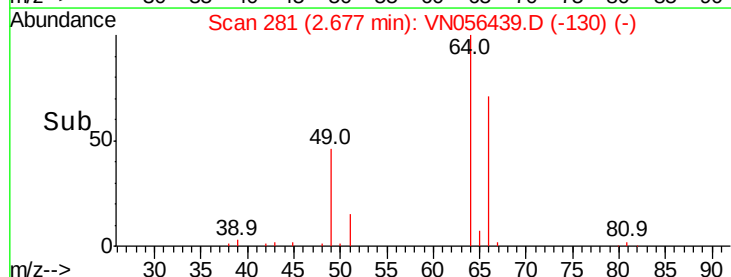
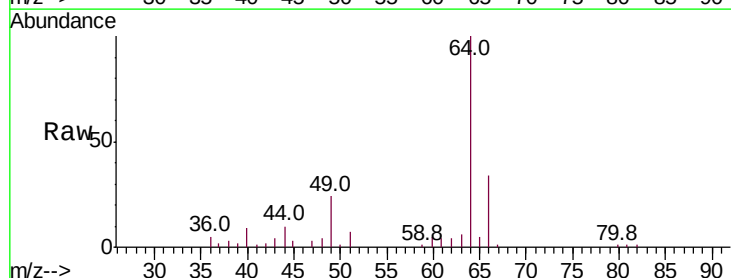
Manual Integrations
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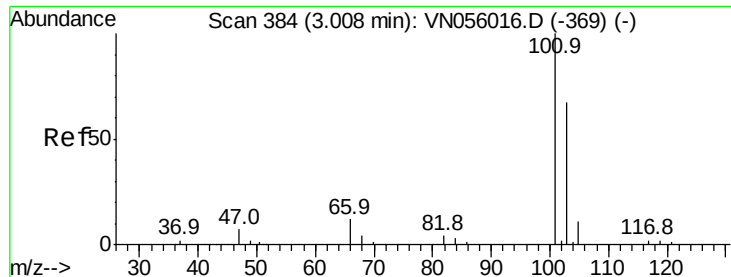
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#6
Chloroethane
Concen: 21.176 ug/l
RT: 2.68 min Scan# 281
Delta R.T. -0.01 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion: 64 Resp: 50969
Ion Ratio Lower Upper
64 100
66 33.6 23.7 35.5





#7

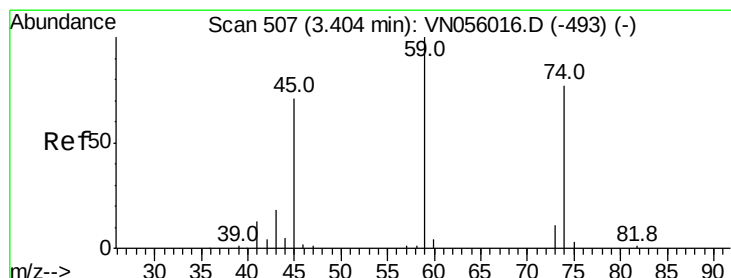
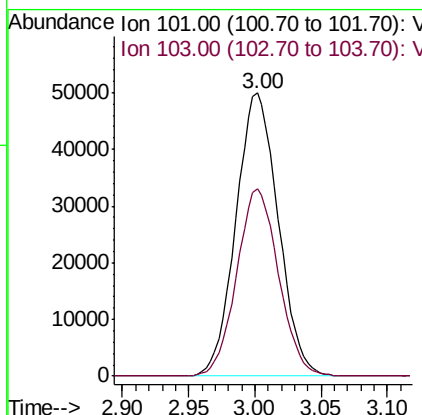
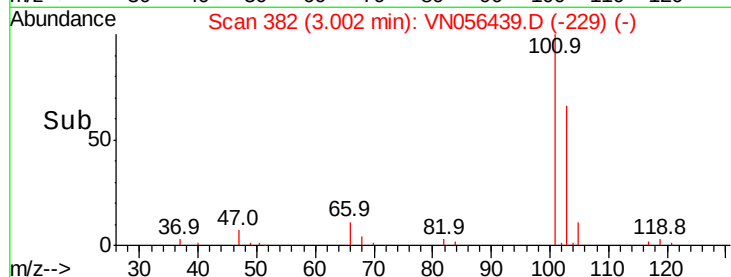
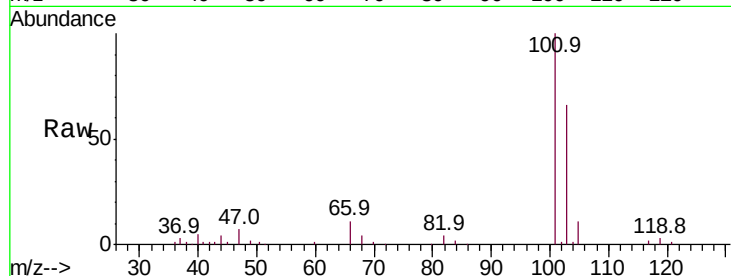
Trichlorofluoromethane
Concen: 20.997 ug/l
RT: 3.00 min Scan# 382
Delta R.T. -0.01 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:101 Resp: 110552
Ion Ratio Lower Upper
101 100
103 66.1 53.4 80.0

Manual Integrations
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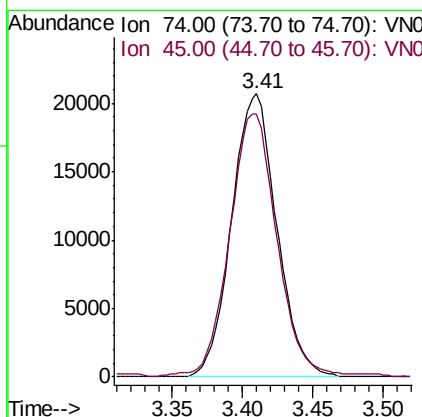
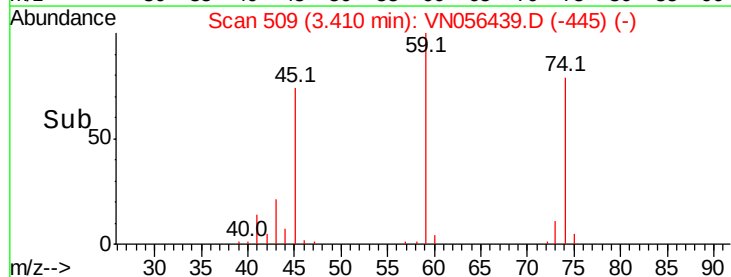
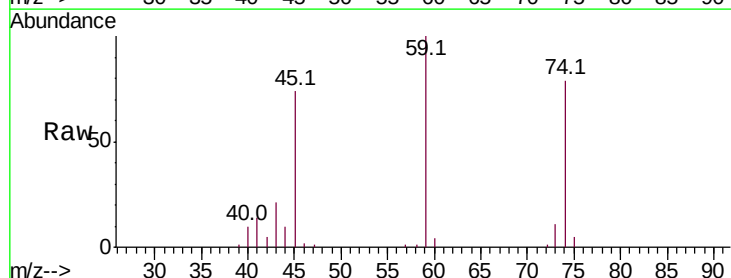
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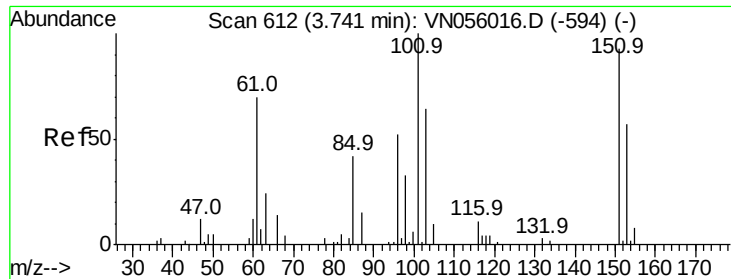


#8

Diethyl Ether
Concen: 20.750 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.01 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion: 74 Resp: 46335
Ion Ratio Lower Upper
74 100
45 95.2 18.8 169.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.773 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.01 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

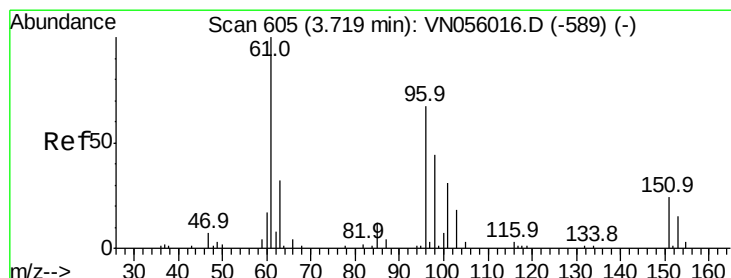
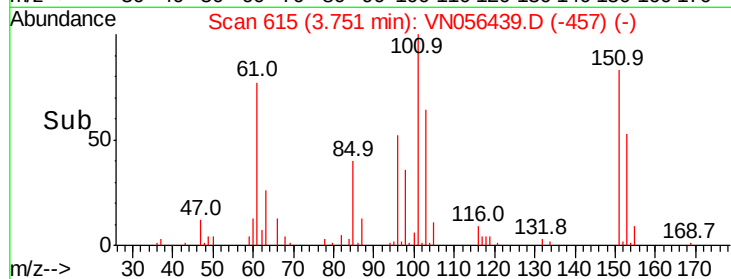
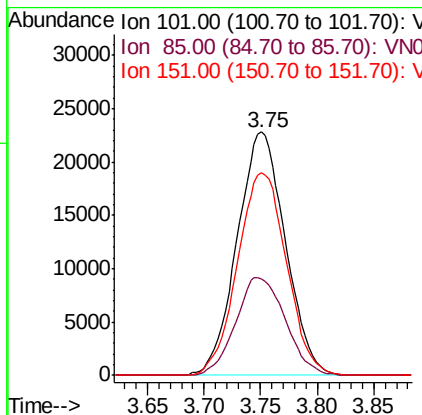
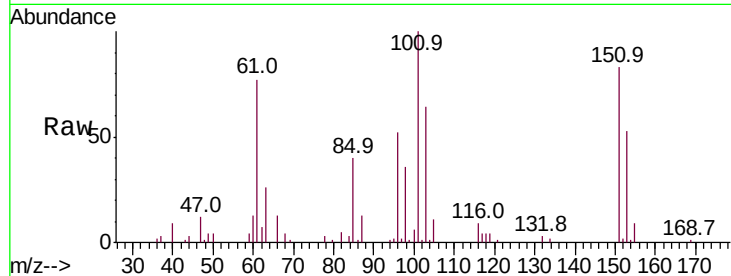
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	67512
Ion Ratio	Lower	Upper	
101	100		
85	41.3	0.0	82.0
151	84.7	0.0	177.0

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#10

1,1-Dichloroethene

Concen: 20.293 ug/l

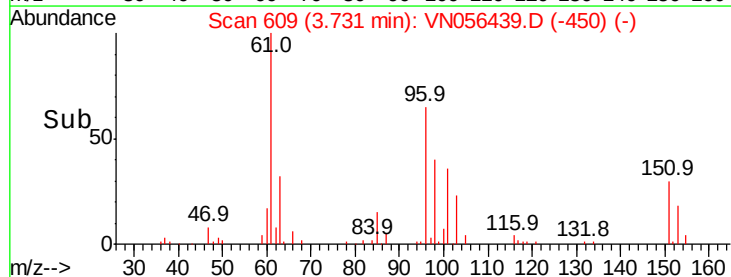
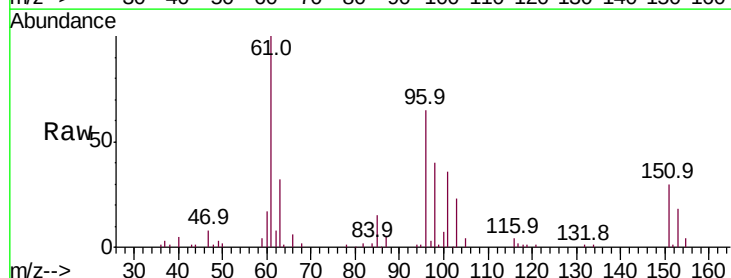
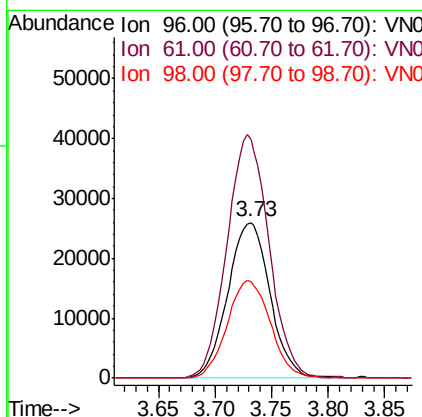
RT: 3.73 min Scan# 609

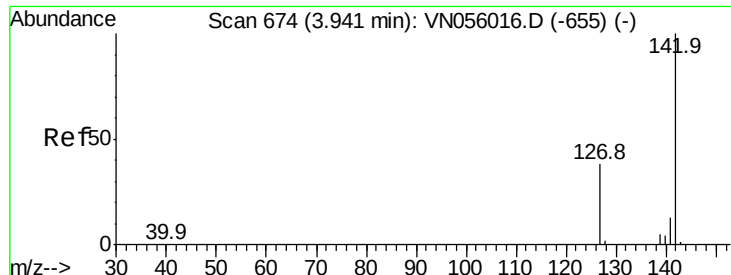
Delta R.T. 0.01 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Tgt Ion:	96	Resp:	67279
Ion Ratio	Lower	Upper	
96	100		
61	152.9	119.7	179.5
98	61.7	52.3	78.5





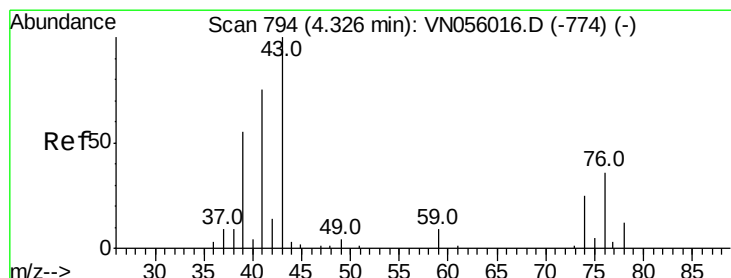
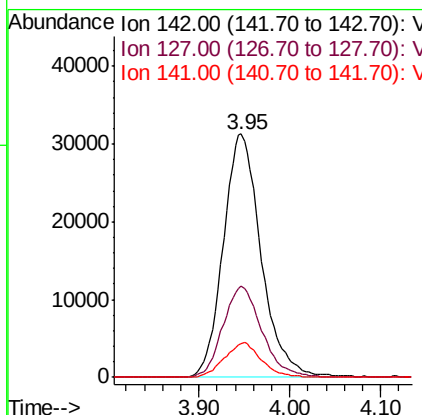
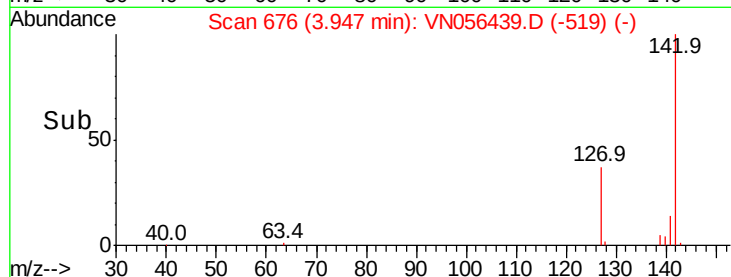
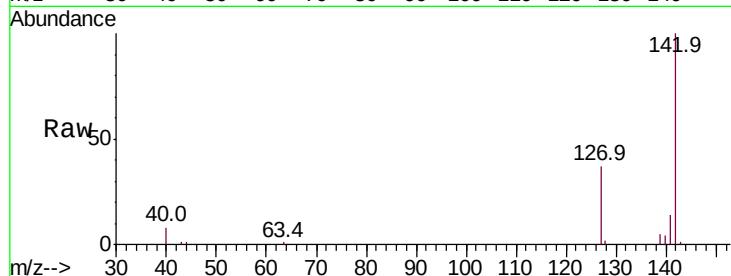
#11
Methvl Iodide
Concen: 17.268 ug/l
RT: 3.95 min Scan# 676
Delta R.T. 0.01 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	37.4	19.0	57.0
141	13.8	6.7	20.0

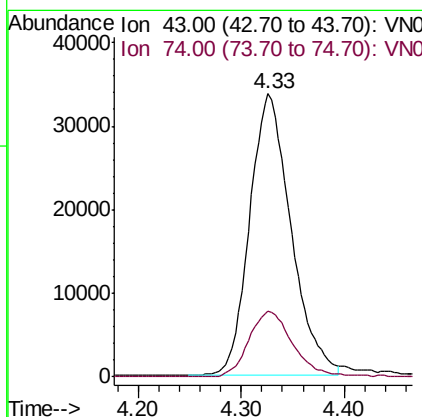
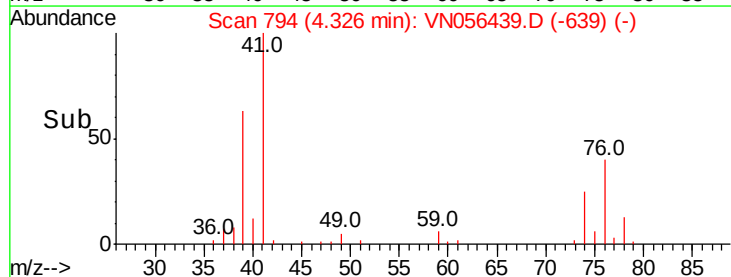
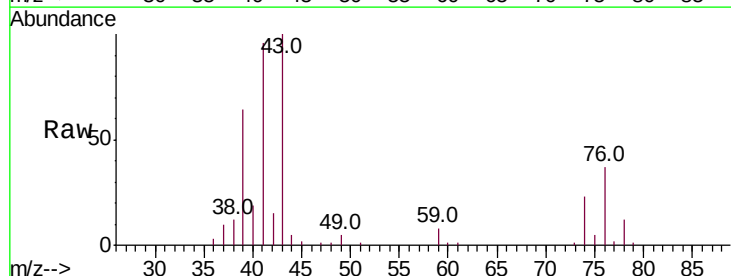
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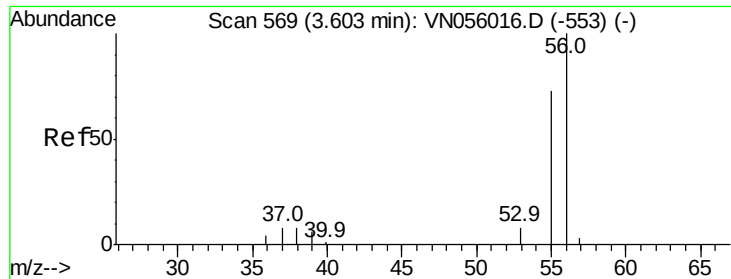
MMDadoda
6/24/2019 4:16:02 PM



#12
Methyl Acetate
Concen: 23.570 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.2	19.9	29.9





#13

Acrolein

Concen: 96.632 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 18764

Ion Ratio Lower Upper

56 100

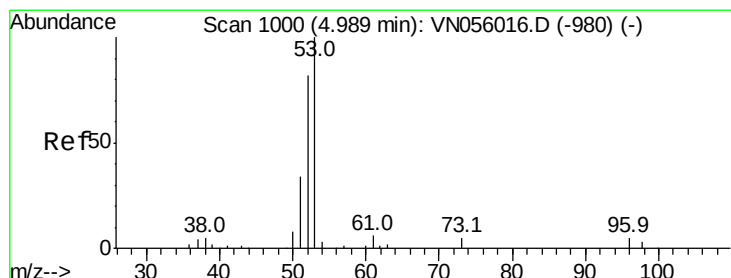
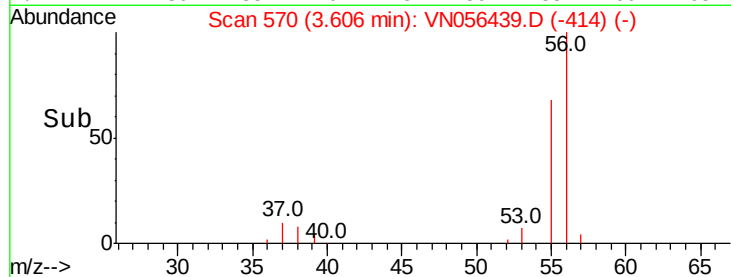
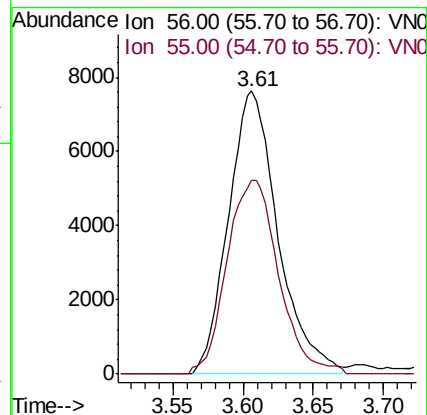
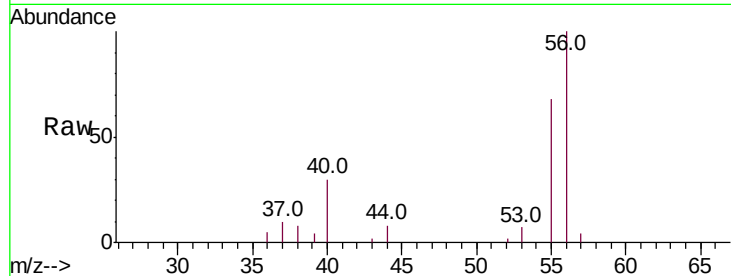
55 70.7 57.9 86.9

Manual Integrations

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#14

Acrylonitrile

Concen: 112.167 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

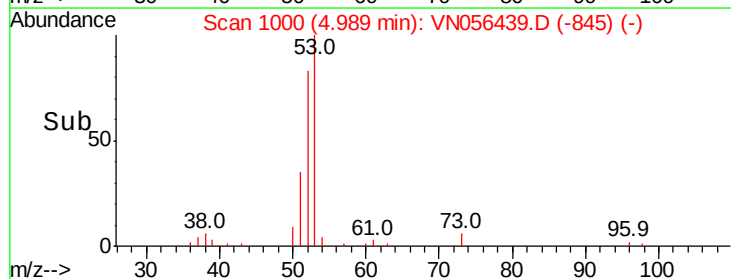
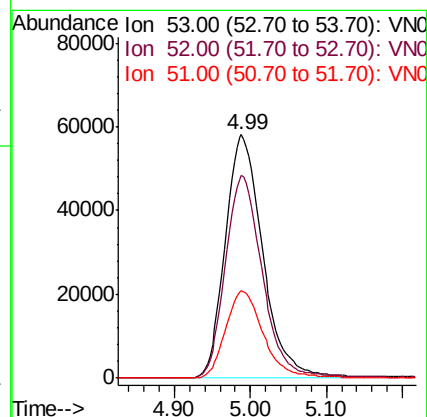
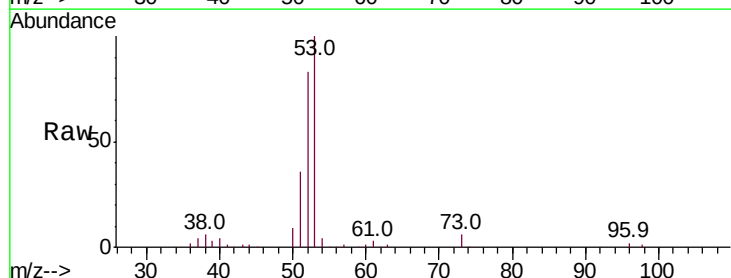
Tgt Ion: 53 Resp: 199280

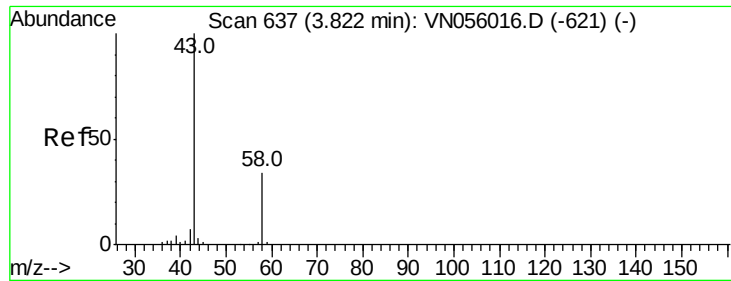
Ion Ratio Lower Upper

53 100

52 81.5 40.8 122.2

51 35.9 17.3 52.0





#15

Acetone

Concen: 100.661 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 58557

Ion Ratio Lower Upper

58 100

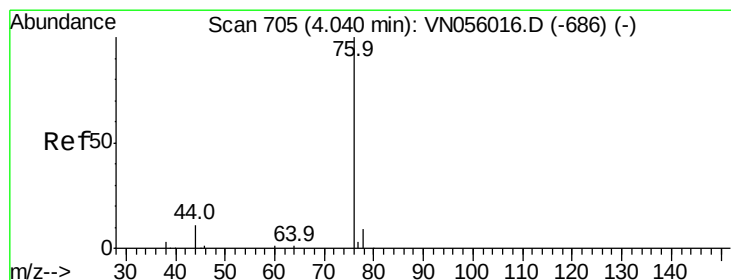
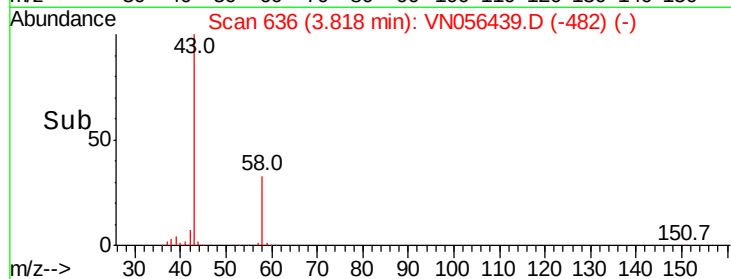
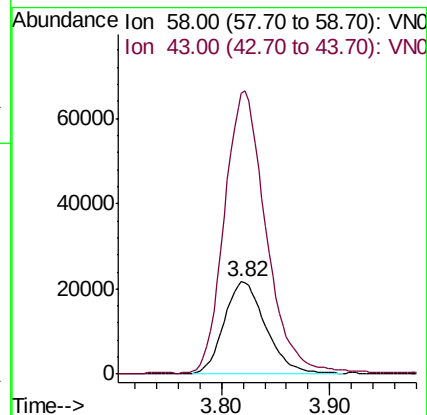
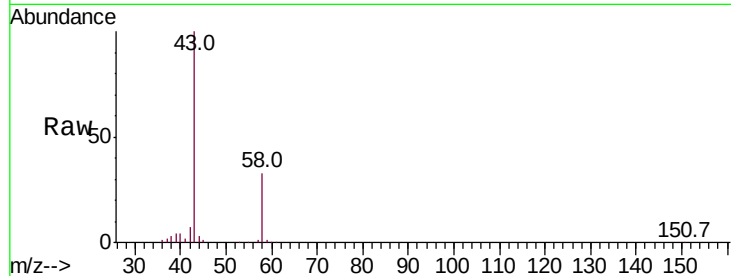
43 301.5 232.5 348.7

Manual Integrations

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#16

Carbon Disulfide

Concen: 17.997 ug/l

RT: 4.05 min Scan# 707

Delta R.T. 0.01 min

Lab File: VN056439.D

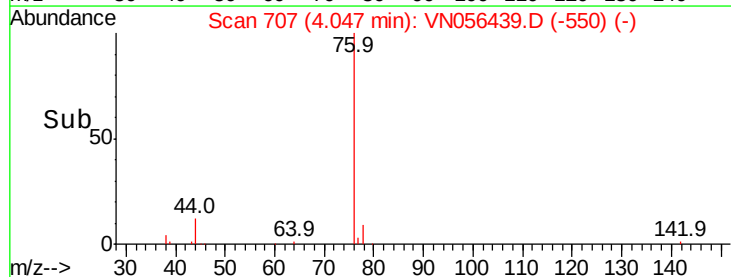
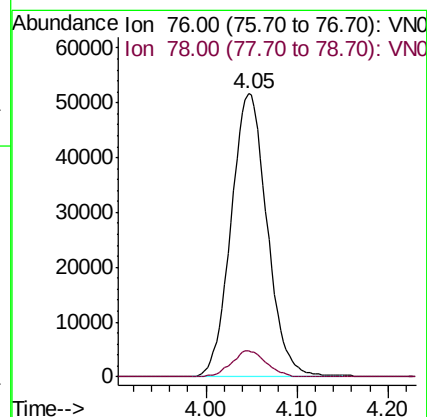
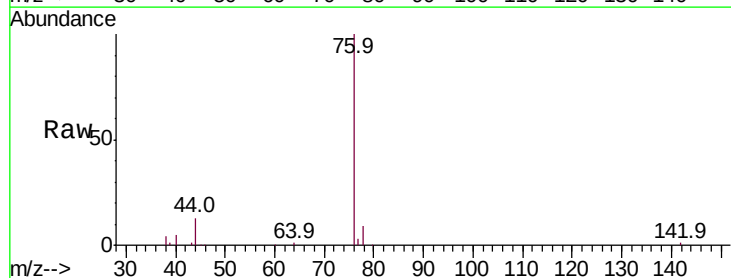
Acq: 21 Jun 2019 20:20

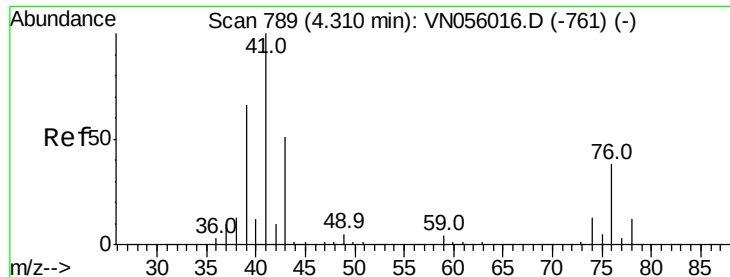
Tgt Ion: 76 Resp: 141965

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9





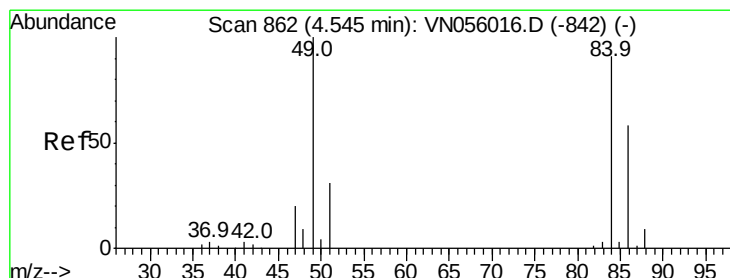
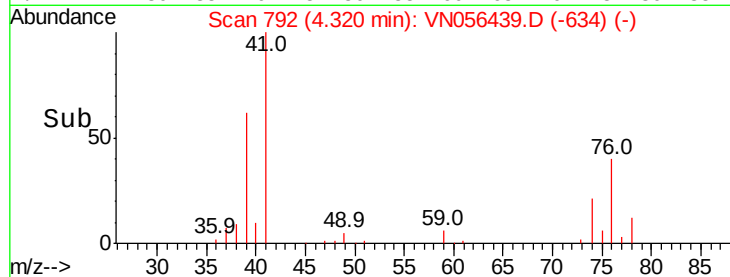
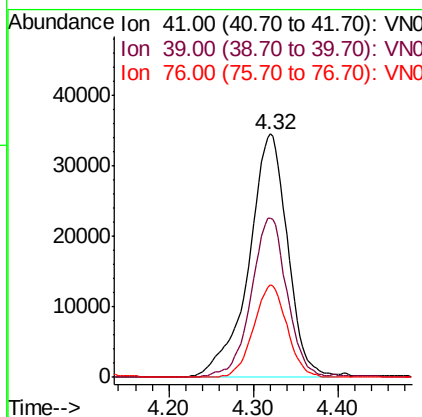
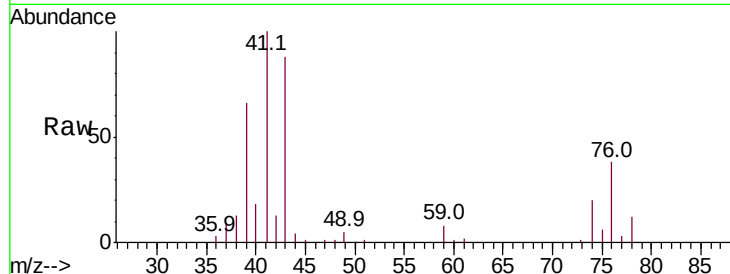
#17
Allvl chloride
Concen: 21.524 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:	41	Resp:	110563
Ion Ratio		Lower	Upper
41	100		
39	65.6	33.0	99.0
76	38.0	18.9	56.9

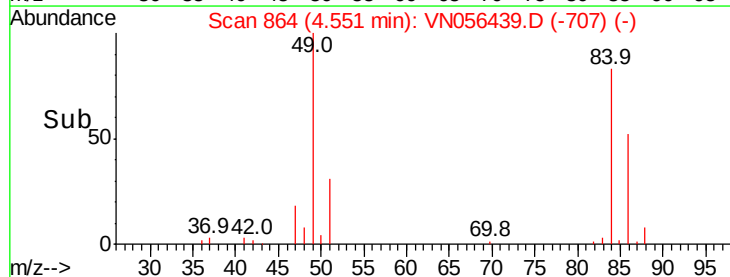
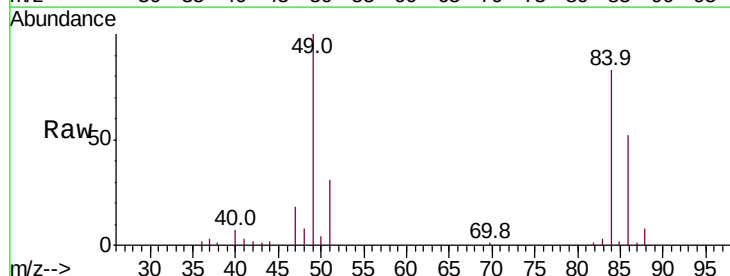
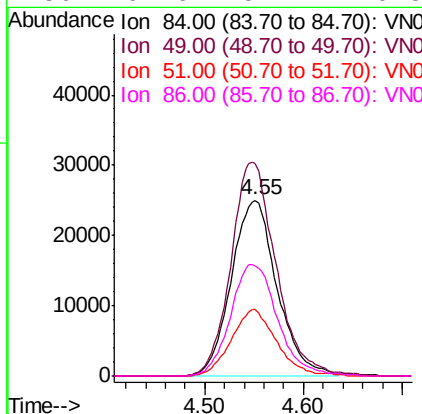
Manual Integrations
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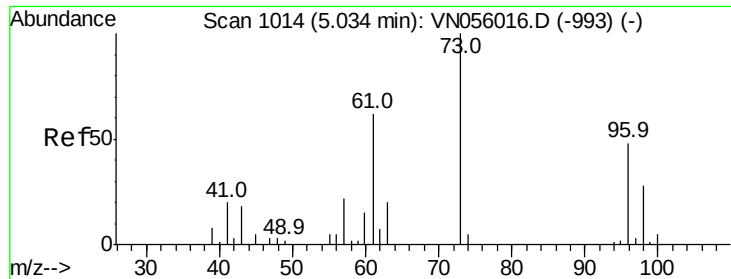
MMDadoda
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#18
Methylene Chloride
Concen: 20.959 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion:	84	Resp:	80441
Ion Ratio		Lower	Upper
84	100		
49	120.2	87.6	131.4
51	37.7	27.0	40.4
86	62.6	51.2	76.8





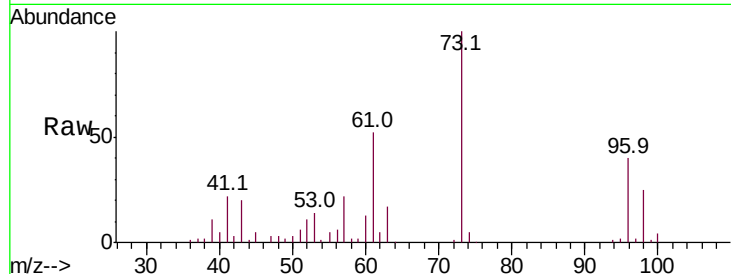
#19
trans-1,2-Dichloroethene
Concen: 20.097 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.01 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.8	102.5	153.7
98	62.5	46.9	70.3

Manual Integrations
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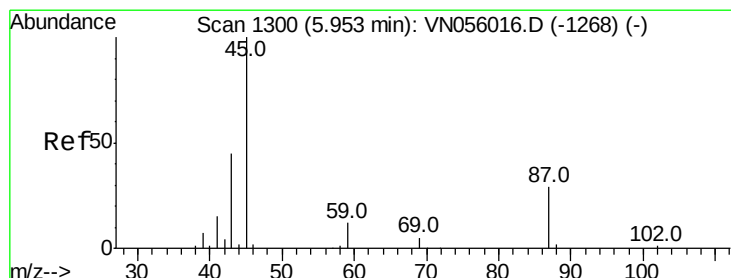
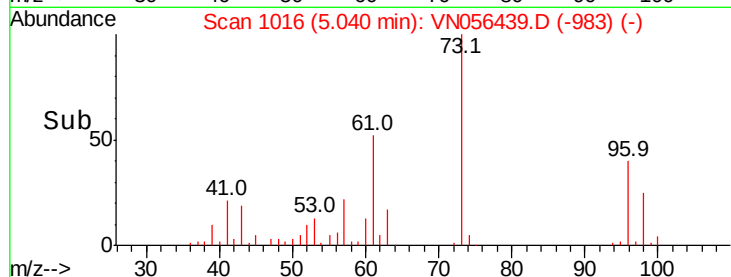
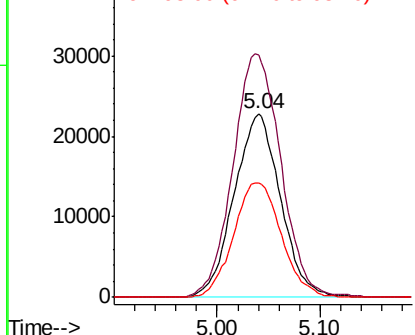


Abundance

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: 22.031 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.1	48.0	72.0
87	27.1	23.4	35.2
59	11.5	9.2	13.8

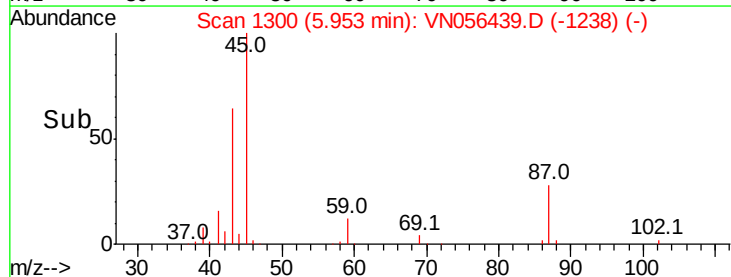
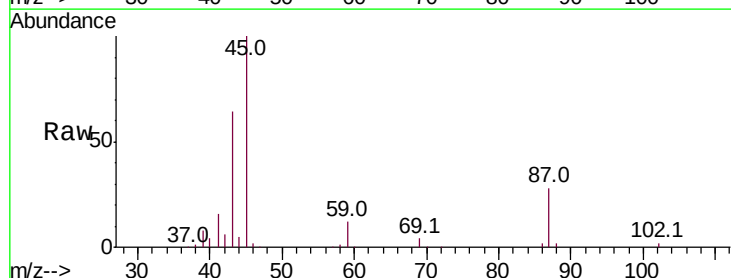
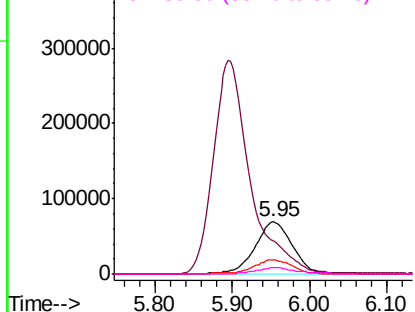
Abundance

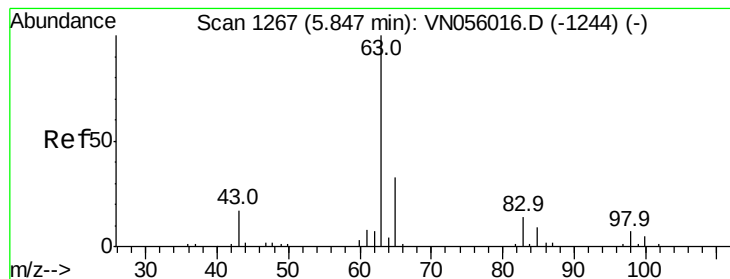
Ion 45.00 (44.70 to 45.70): VNO

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: 21.947 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

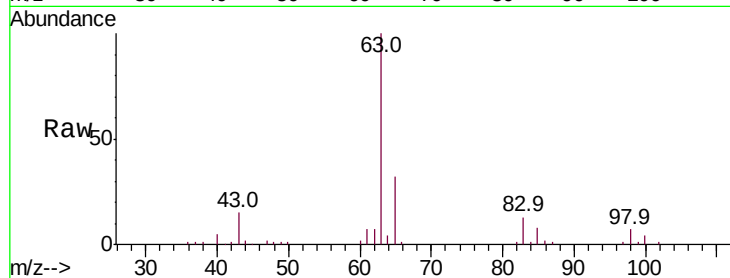
ClientSampleId :

VSTDCCC020EC

Tot Ion:	63	Resp:	135742
Ion Ratio	Lower	Upper	
63	100		
98	6.7	3.5	10.5
100	4.4	2.3	6.9

Manual Integrations
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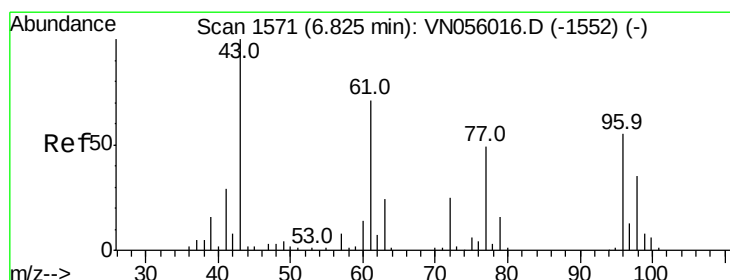
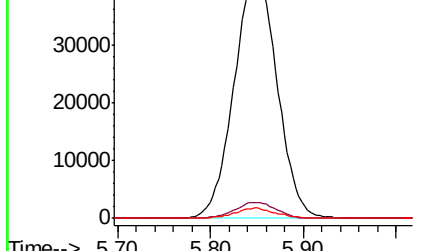
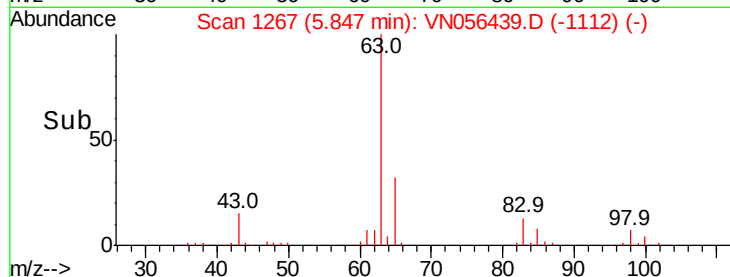


Abundance Ion 63.00 (62.70 to 63.70): VN056016.D (-1244) (-)

Ion 98.00 (97.70 to 98.70): VN056016.D (-1244) (-)

Ion 100.00 (99.70 to 100.70): VN056016.D (-1244) (-)

Time--> 5.70 5.80 5.90



#22

cis-1,2-Dichloroethene

Concen: 20.580 ug/l

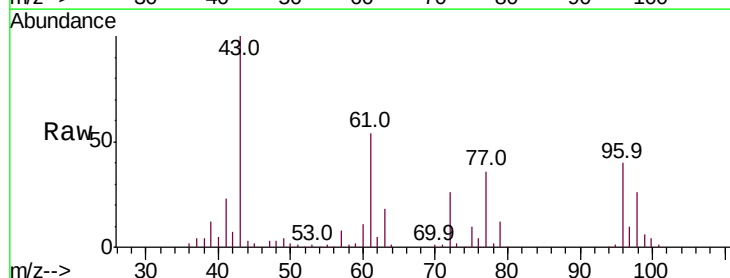
RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Tgt Ion:	96	Resp:	85004
Ion Ratio	Lower	Upper	
96	100		
61	138.5	105.7	158.5
98	65.4	52.0	78.0

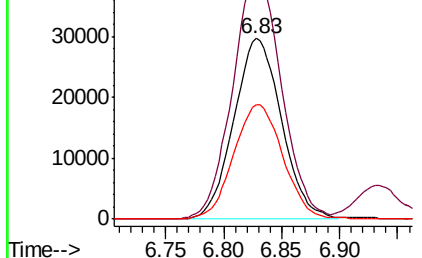
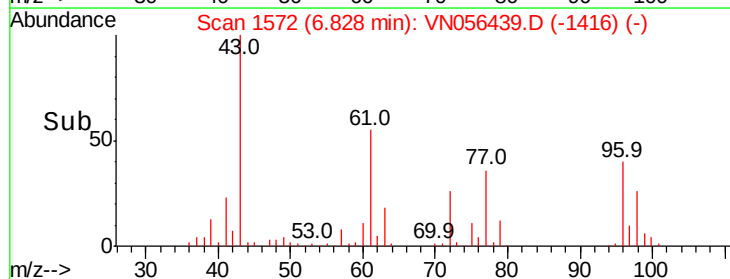


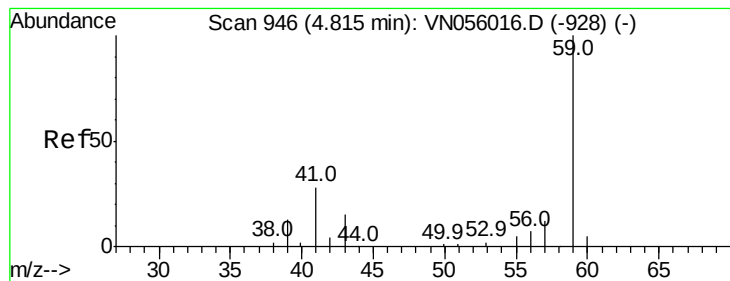
Abundance Ion 96.00 (95.70 to 96.70): VN056016.D (-1552) (-)

Ion 61.00 (60.70 to 61.70): VN056016.D (-1552) (-)

Ion 98.00 (97.70 to 98.70): VN056016.D (-1552) (-)

Time--> 6.75 6.80 6.85 6.90





#23

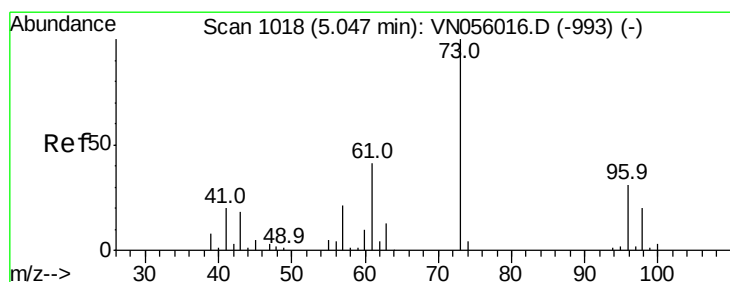
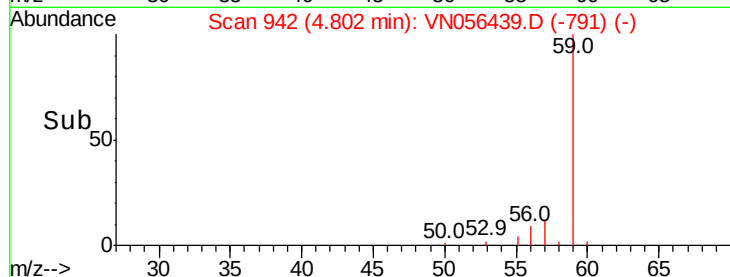
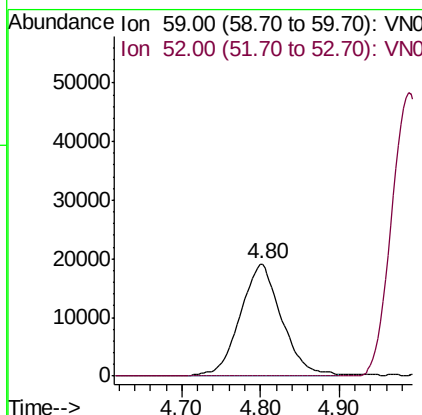
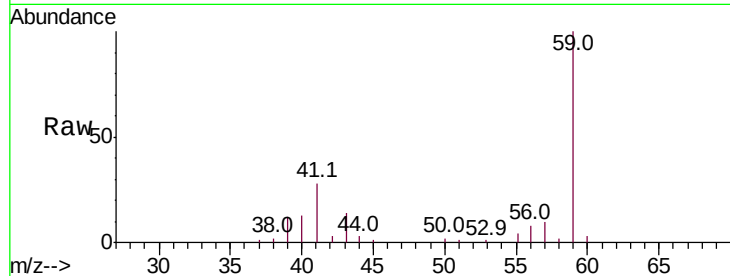
tert-Butyl Alcohol
 Concen: 102.751 ug/l
 RT: 4.80 min Scan# 942
 Delta R.T. -0.01 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020EC

Tot Ion	59	52	Ratio	100	0.0	Resp	71056	Lower	Upper
Ion	59	52	Ratio	100	0.0	Resp	71056	Lower	Upper

Manual Integrations
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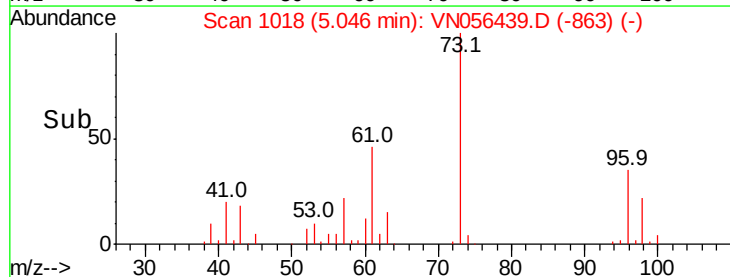
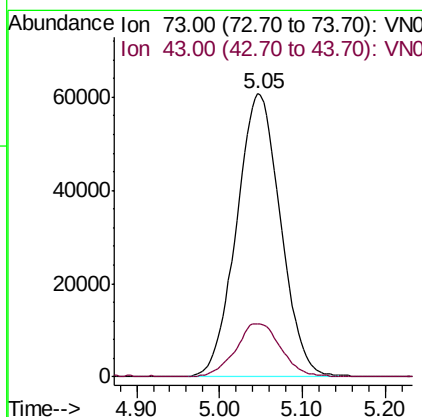
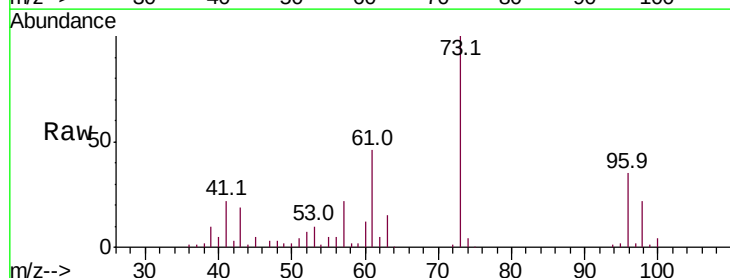
MMDadoda
 6/24/2019 4:16:02 PM

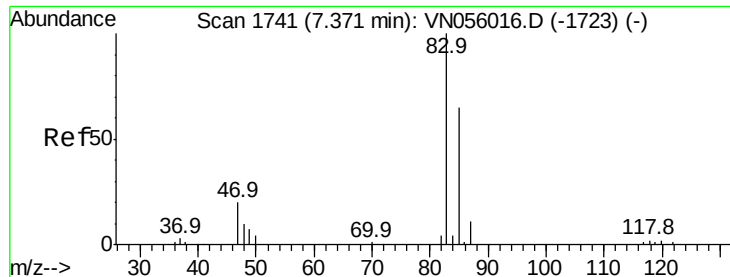


#24

Methyl tert-Butyl Ether
 Concen: 21.195 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion	73	43	Ratio	100	19.1	Resp	223944	Lower	Upper
Ion	73	43	Ratio	100	19.1	Resp	223944	Lower	Upper





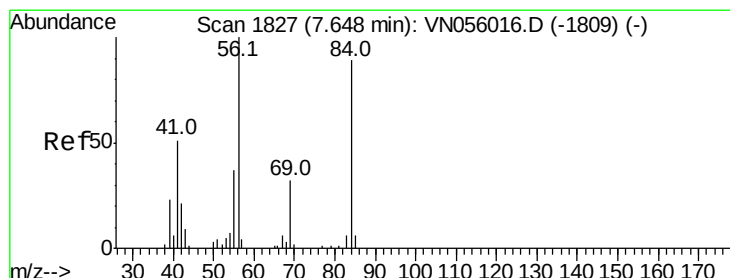
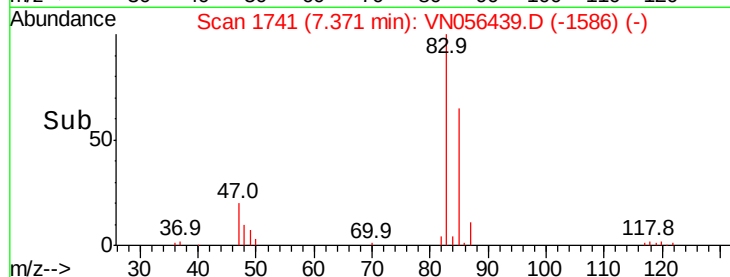
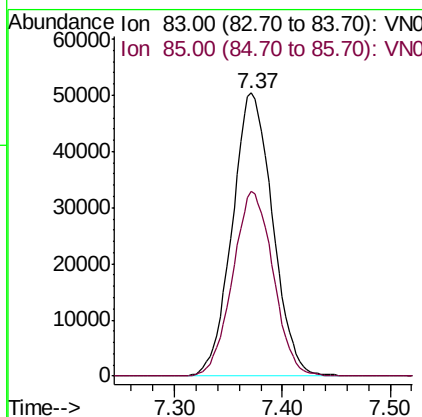
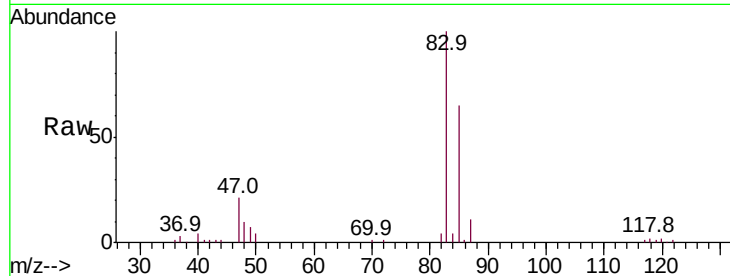
#25
Chloroform
Concen: 21.297 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	131529
Ion Ratio	100	Lower	Upper
85	65.2	52.0	78.0

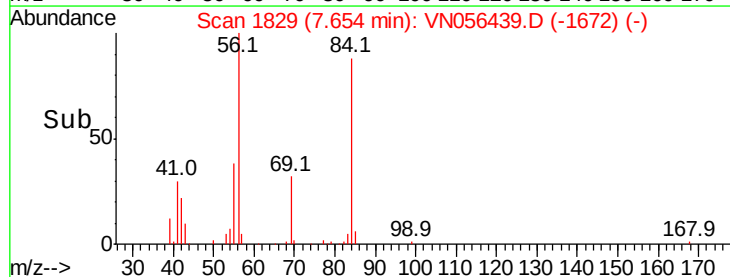
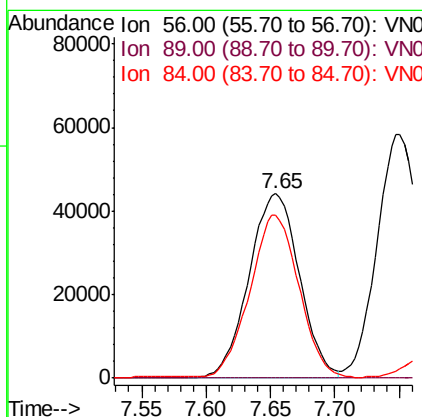
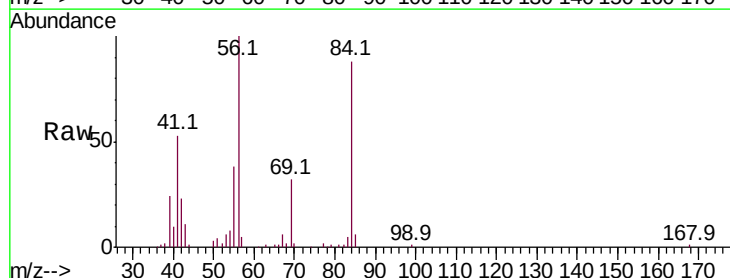
Manual Integrations
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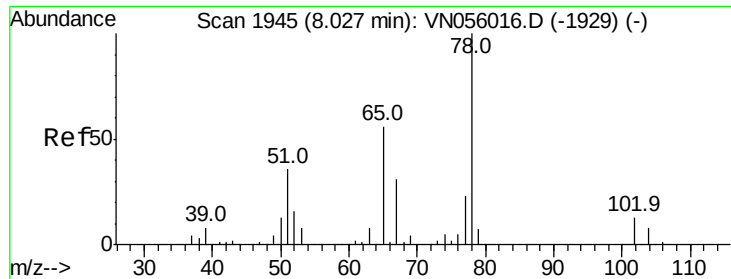
MMDadoda
6/24/2019 4:16:02 PM



#26
Cyclohexane
Concen: 20.989 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion	56	Resp	120437
Ion Ratio	100	Lower	Upper
89	0.0	0.0	0.0
84	86.3	70.1	105.1





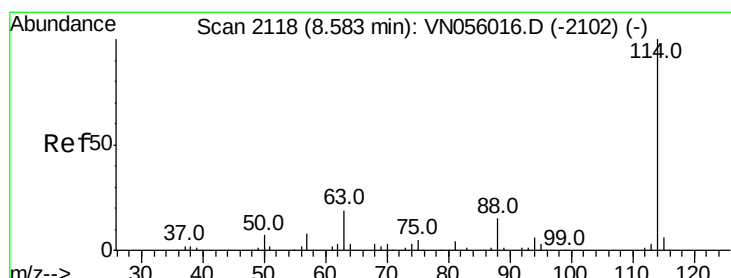
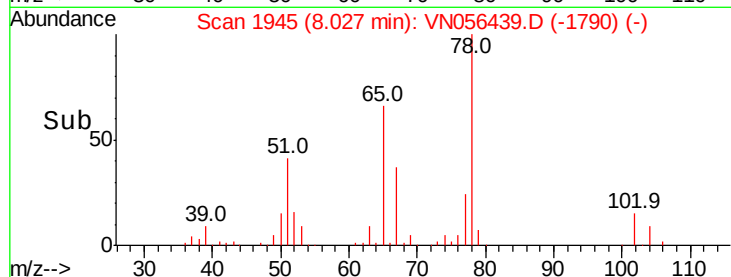
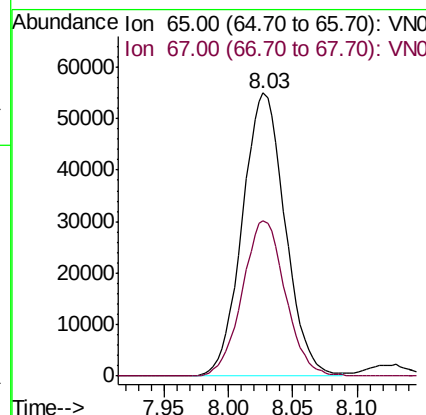
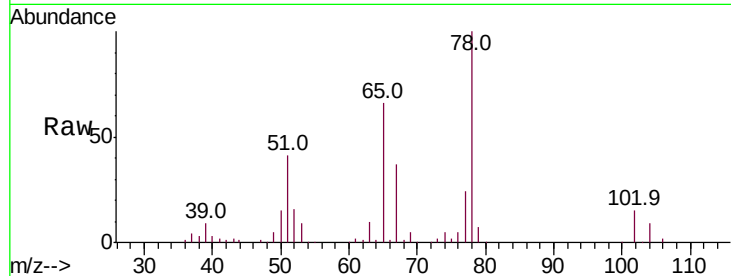
#27
 1,2-Dichloroethane-d4
 Concen: 32.202 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.2	43.4	65.2

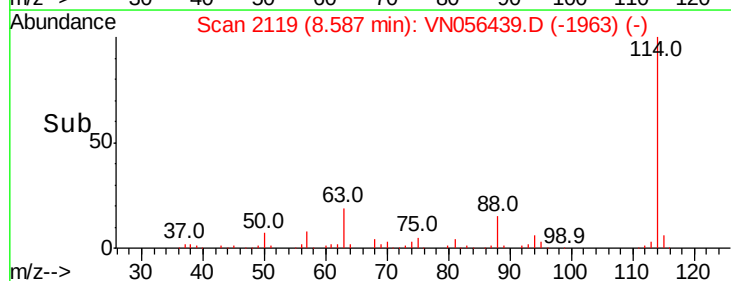
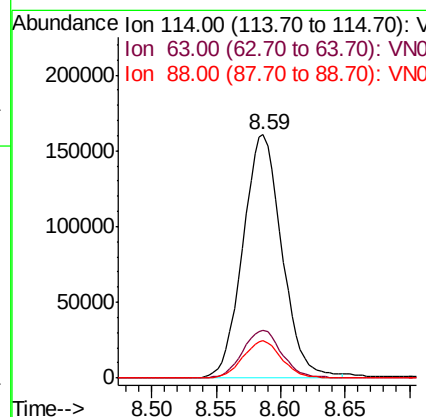
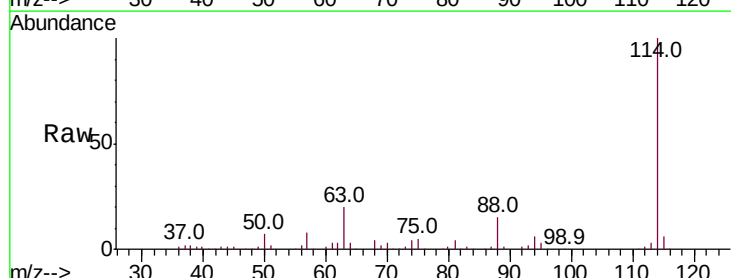
Manual Integrations
 APPROVED

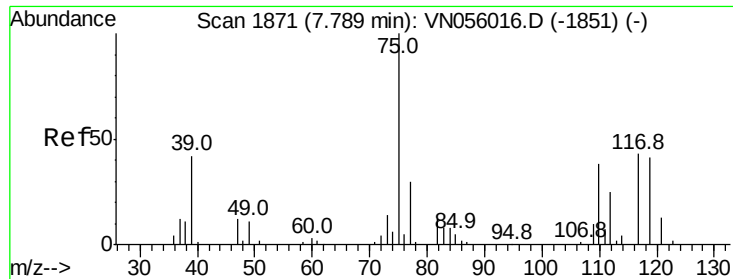
MMDadoda
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#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.6	14.7	22.1
88	15.3	11.9	17.9





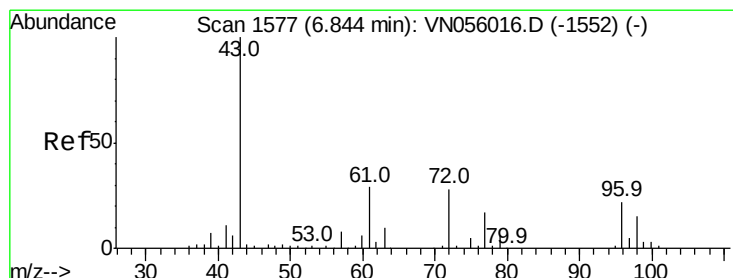
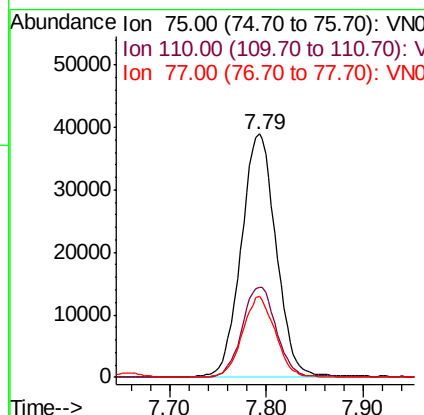
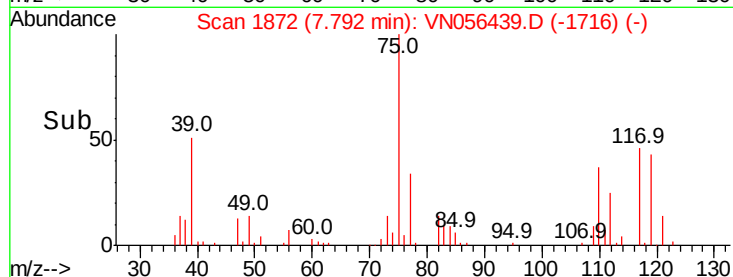
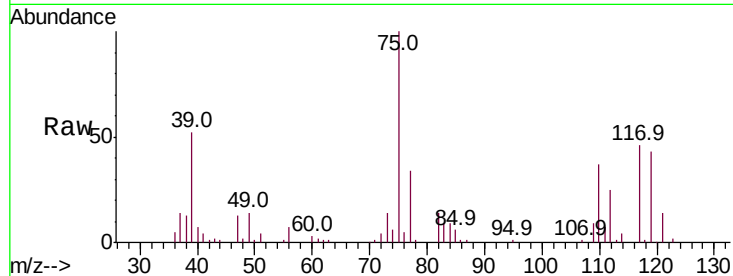
#29
 1,1-Dichloropropene
 Concen: 21.325 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
110	36.3	0.0	77.0
77	31.1	0.0	62.4

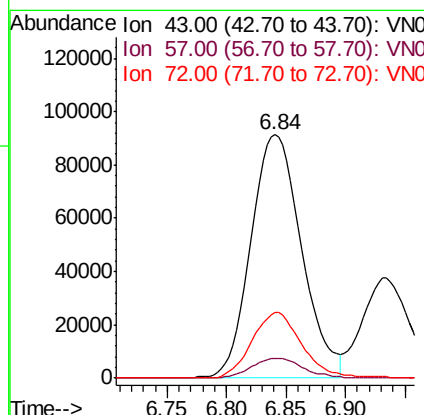
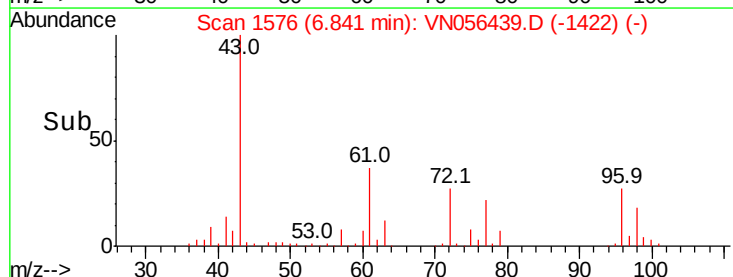
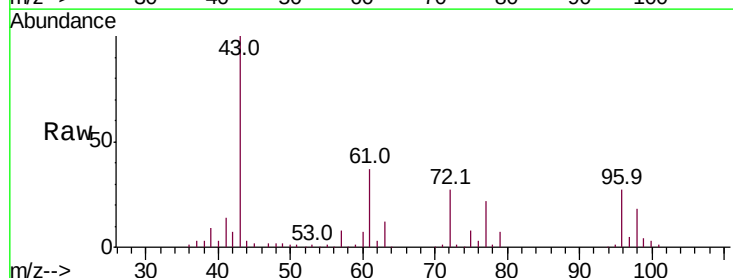
Manual Integrations
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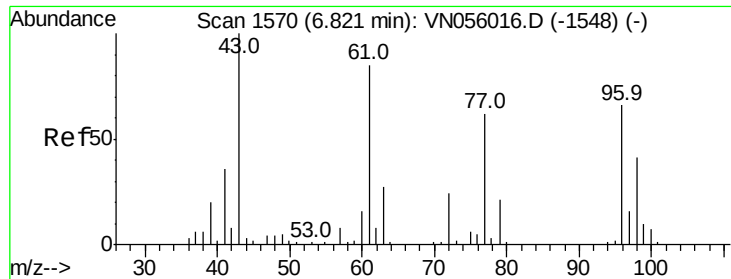
MMDadoda
 6/24/2019 4:16:02 PM



#30
 2-Butanone
 Concen: 111.122 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.3	6.7	10.1
72	26.5	22.4	33.6





#31

2,2-Dichloropropane

Concen: 19.754 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 77 Resp: 84278

Ion Ratio Lower Upper

77 100

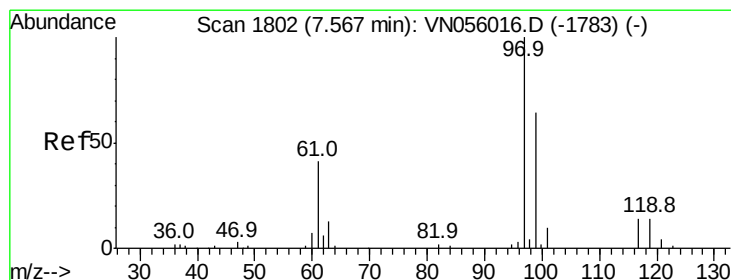
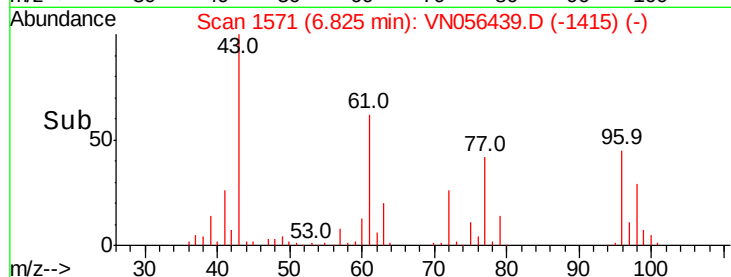
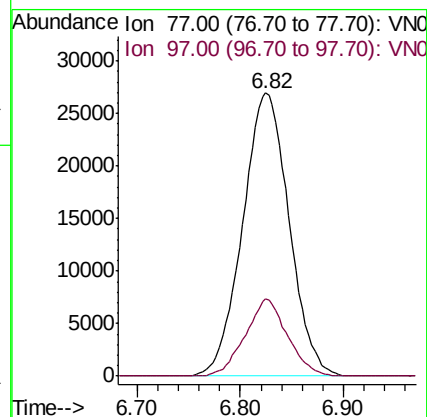
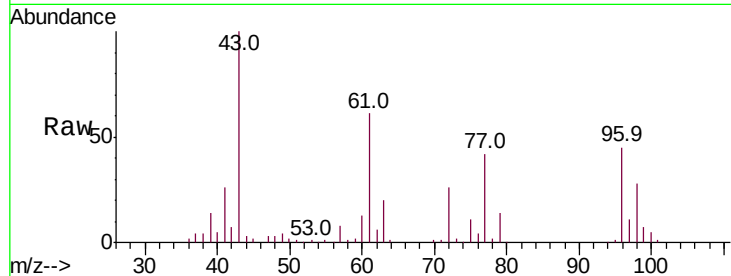
97 24.7 20.8 31.2

Manual Integrations

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6/24/2019 4:16:02 PM



#32

1,1,1-Trichloroethane

Concen: 20.986 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

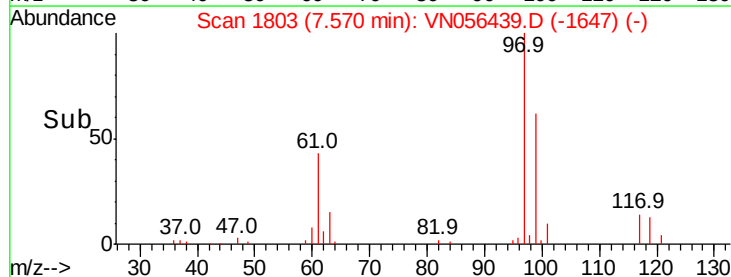
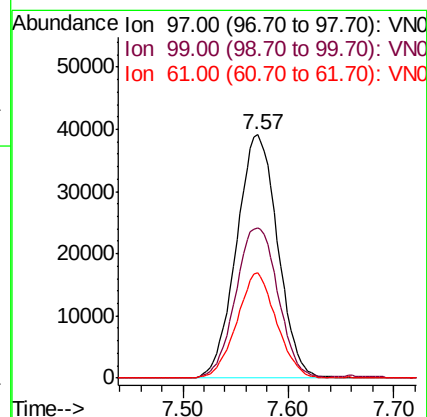
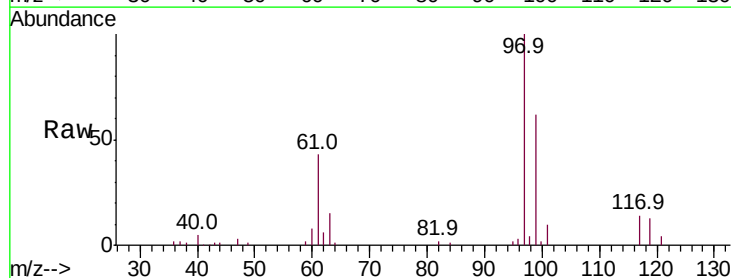
Tgt Ion: 97 Resp: 106338

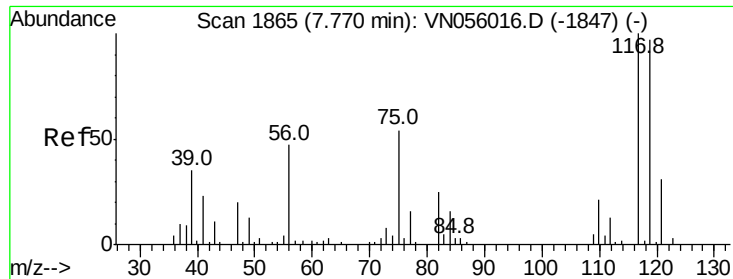
Ion Ratio Lower Upper

97 100

99 63.6 51.5 77.3

61 41.5 32.9 49.3





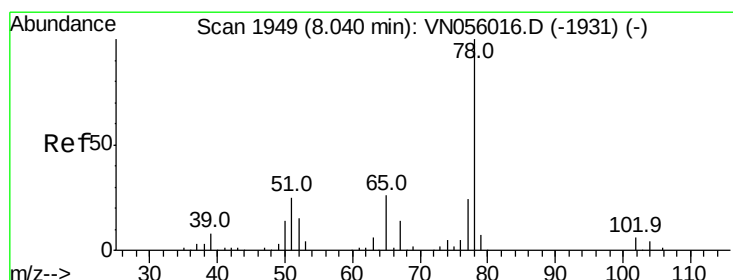
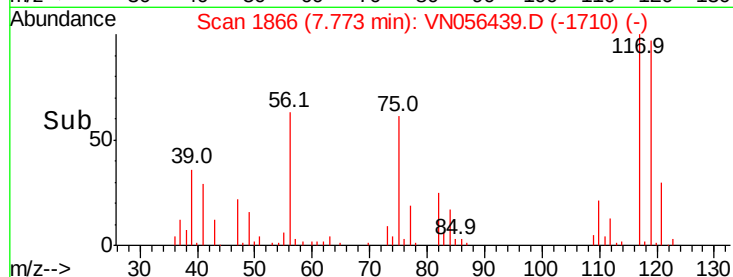
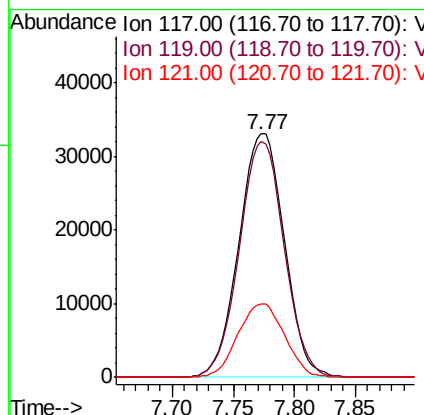
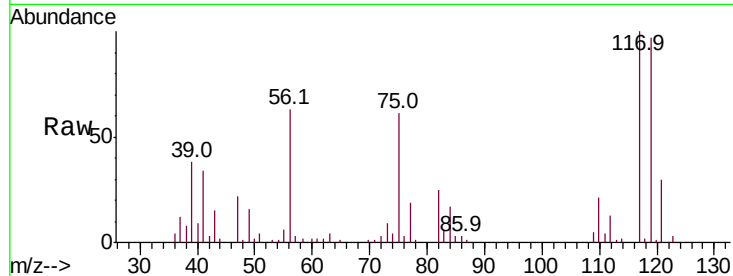
#33
Carbon Tetrachloride
Concen: 19.873 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:117 Resp: 85314
Ion Ratio Lower Upper
117 100
119 97.1 77.3 115.9
121 30.1 25.0 37.4

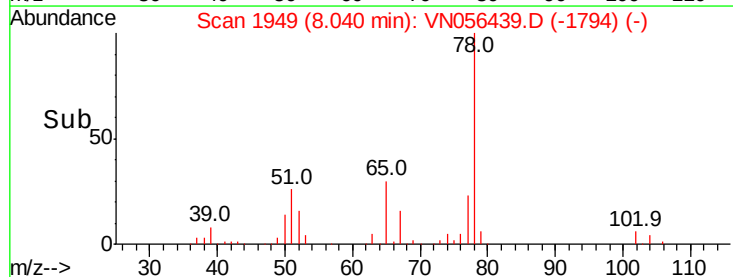
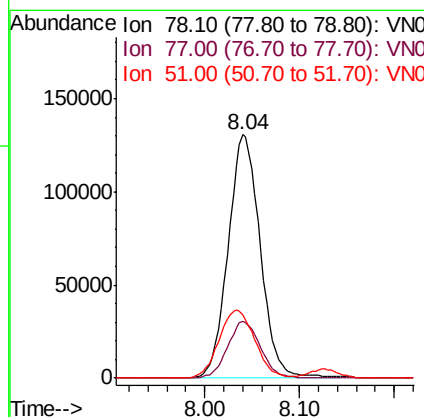
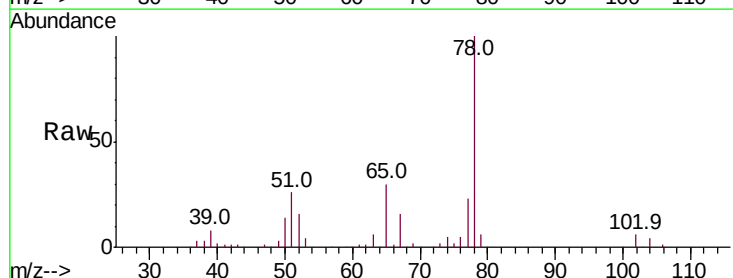
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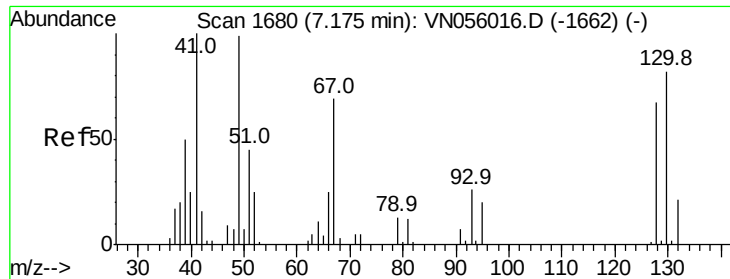
MMDadoda
6/24/2019 4:16:02 PM



#34
Benzene
Concen: 21.088 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion: 78 Resp: 308154
Ion Ratio Lower Upper
78 100
77 23.3 19.3 28.9
51 25.7 19.8 29.8





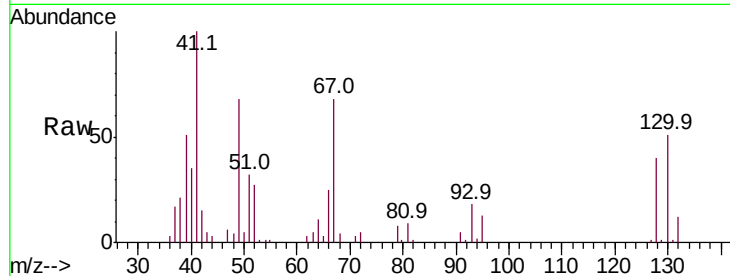
#35
Methacrylonitrile
Concen: 20.030 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	41	Resp	40838
Ion	Ratio	Lower	Upper
41	100		
39	51.0	24.8	74.3
67	67.8	34.3	102.9
52	27.4	12.6	37.8

Manual Integrations
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6/24/2019 4:16:02 PM



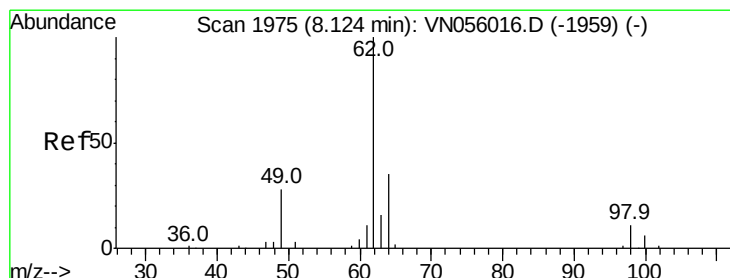
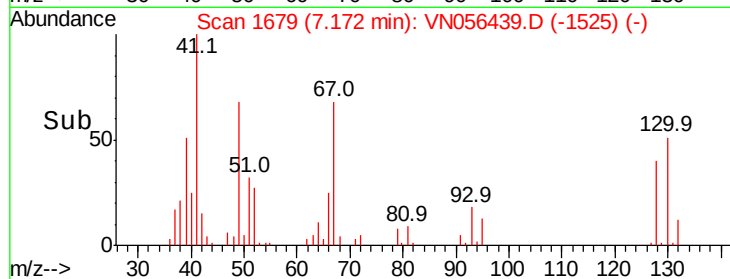
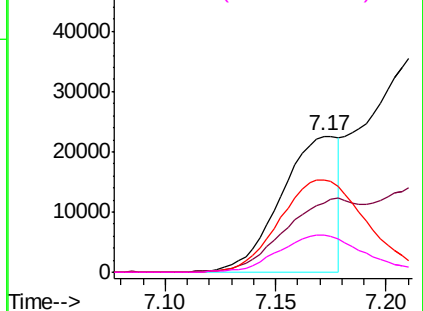
Abundance

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

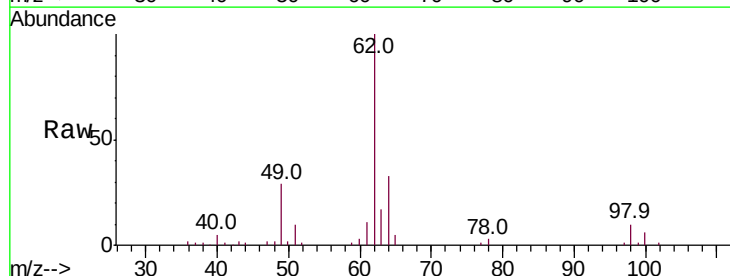
Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#36
1,2-Dichloroethane
Concen: 22.537 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

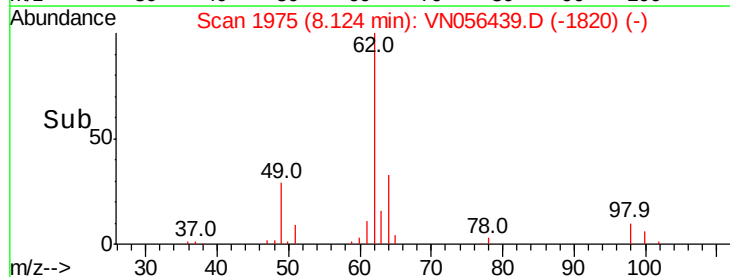
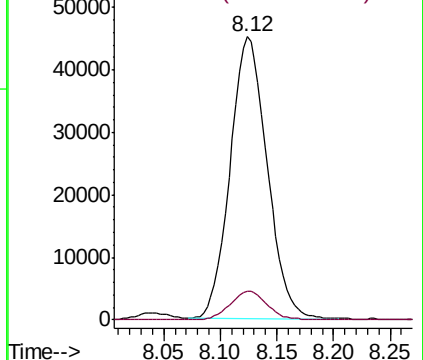
Tgt Ion	62	Resp	103155
Ion	Ratio	Lower	Upper
62	100		
98	10.0	8.6	13.0

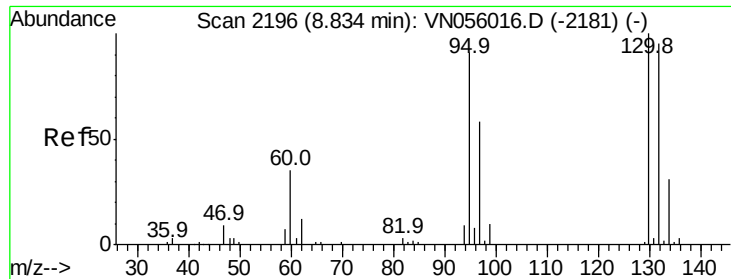


Abundance

Ion 62.00 (61.70 to 62.70): VNC

Ion 98.00 (97.70 to 98.70): VNC





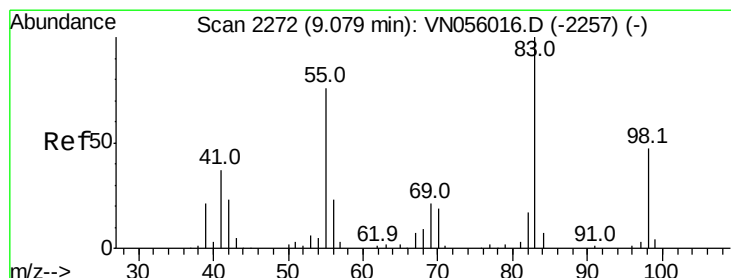
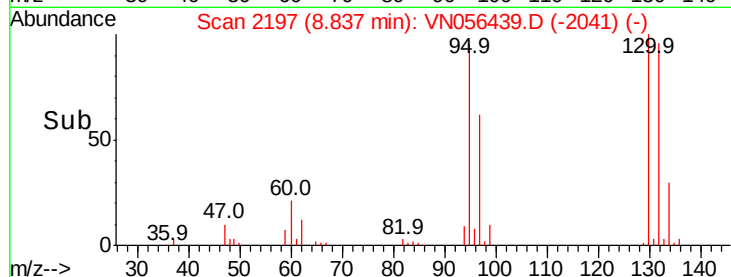
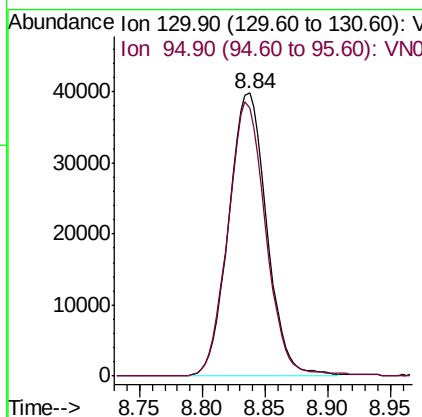
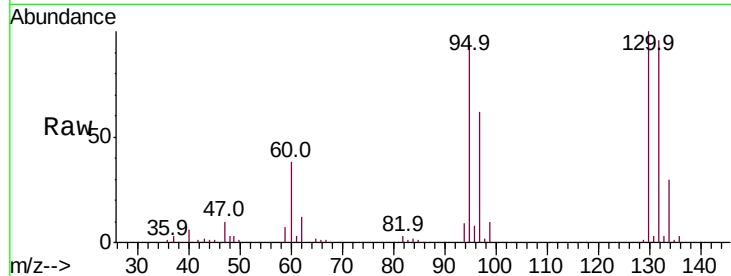
#37
 Trichloroethene
 Concen: 20.561 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion:130 Resp: 84074
 Ion Ratio Lower Upper
 130 100
 95 94.7 73.0 109.6

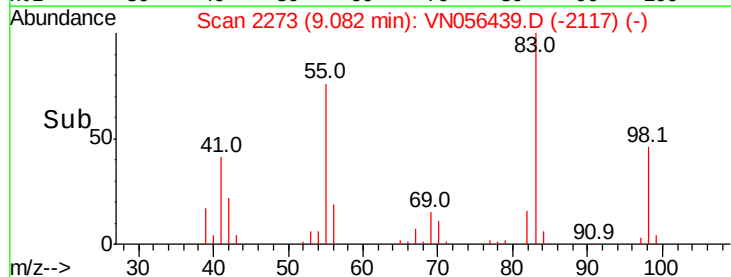
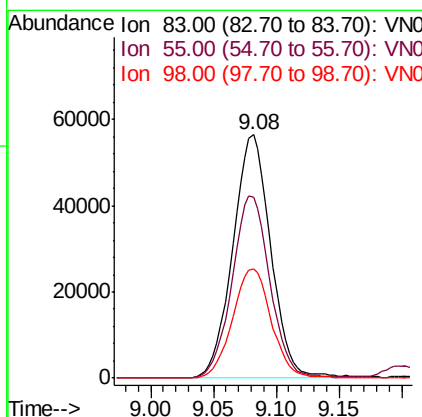
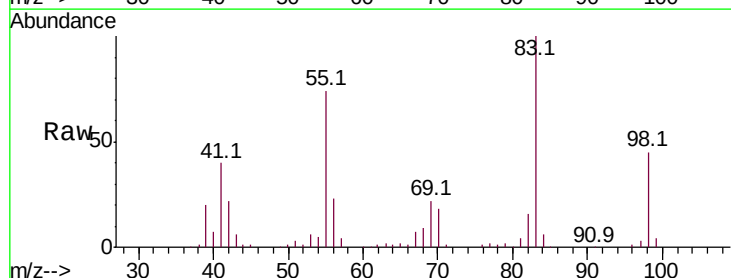
Manual Integrations
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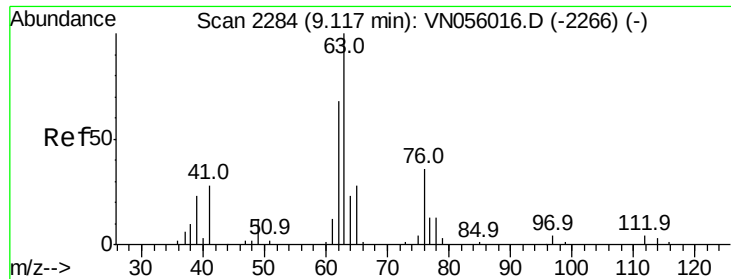
MMDadoda
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#38
 Methylcyclohexane
 Concen: 20.412 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion: 83 Resp: 118680
 Ion Ratio Lower Upper
 83 100
 55 74.7 37.5 112.7
 98 45.9 23.1 69.3





#39

1,2-Dichloropropane

Concen: 22.333 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 63 Resp: 83579

Ion Ratio Lower Upper

63 100

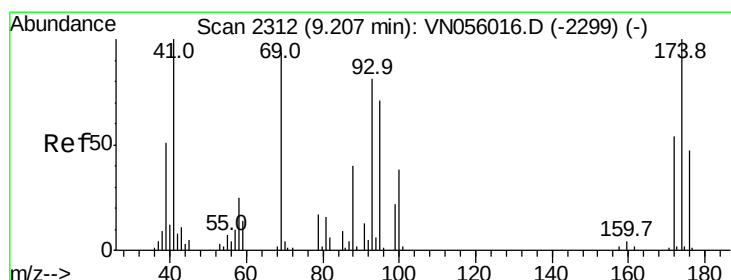
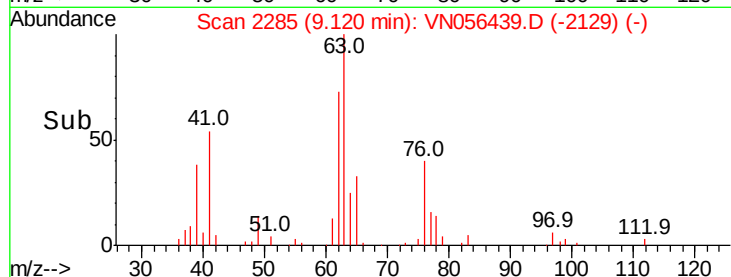
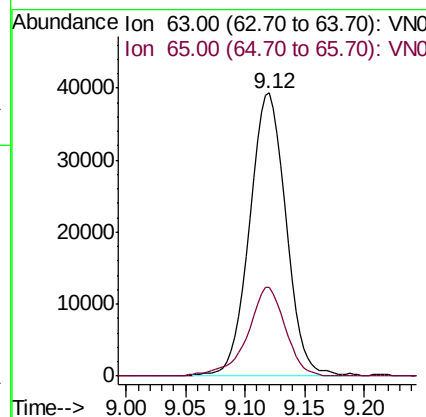
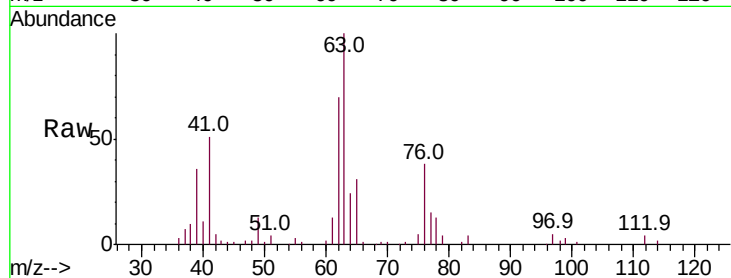
65 31.2 23.1 34.7

Manual Integrations

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6/24/2019 4:16:02 PM



#40

Dibromomethane

Concen: 21.541 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

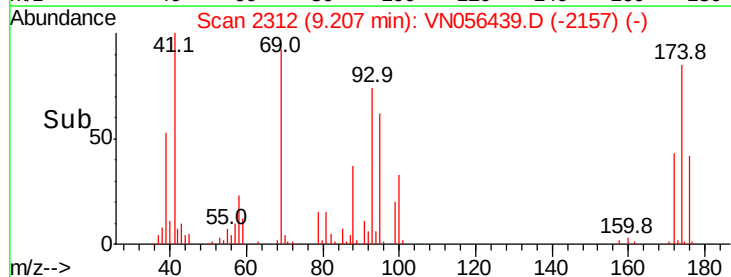
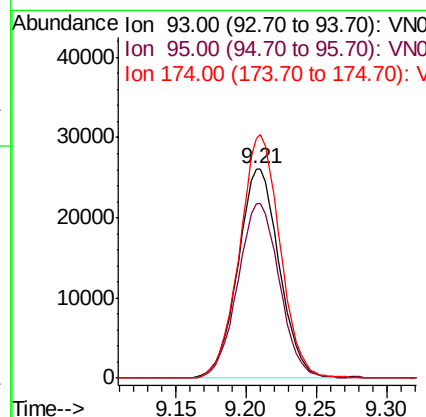
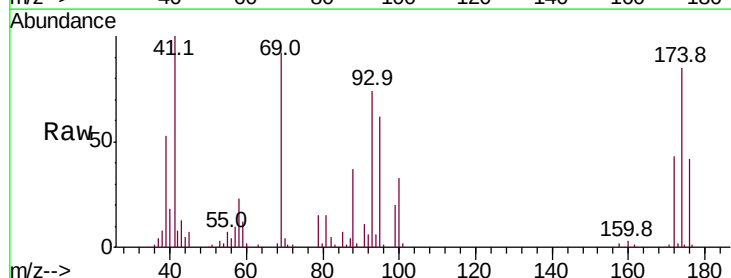
Tgt Ion: 93 Resp: 53453

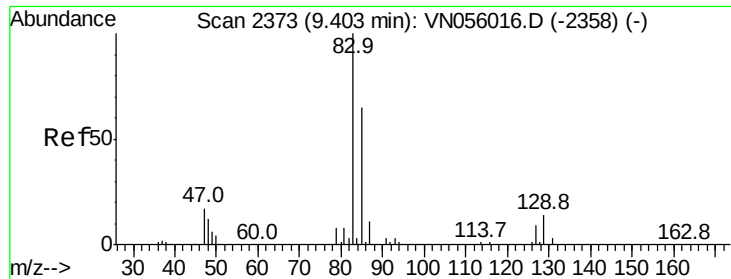
Ion Ratio Lower Upper

93 100

95 84.1 0.0 169.0

174 113.9 0.0 246.4





#41

Bromodichloromethane

Concen: 20.617 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

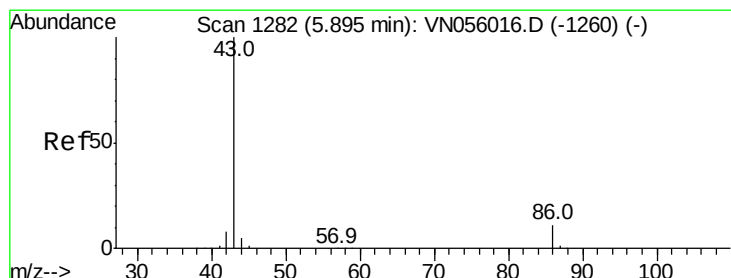
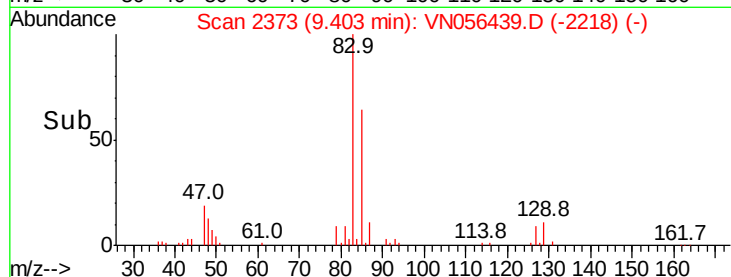
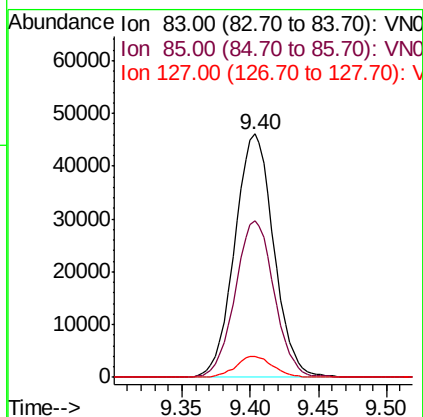
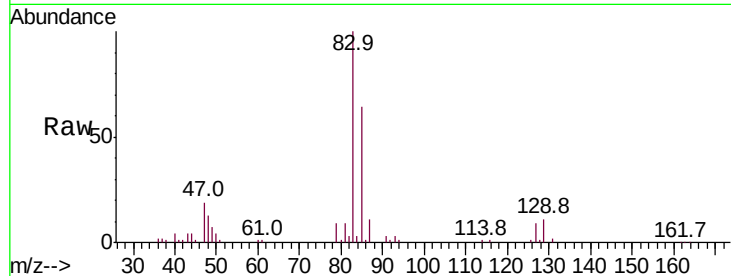
ClientSampleId :

VSTDCCC020EC

Tot Ion:	83	Resp:	91609
Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6
127	8.8	7.3	10.9

Manual Integrations
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#42

Vinyl Acetate

Concen: 109.925 ug/l

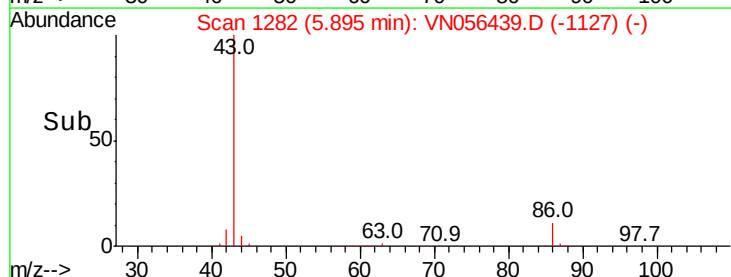
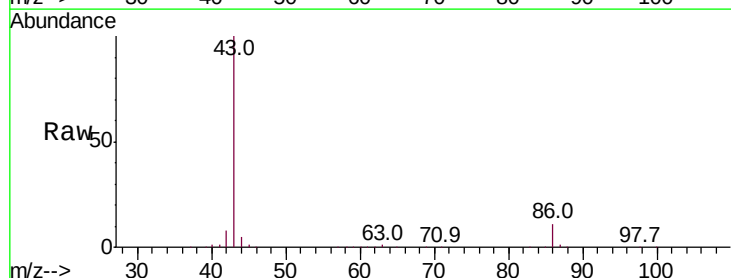
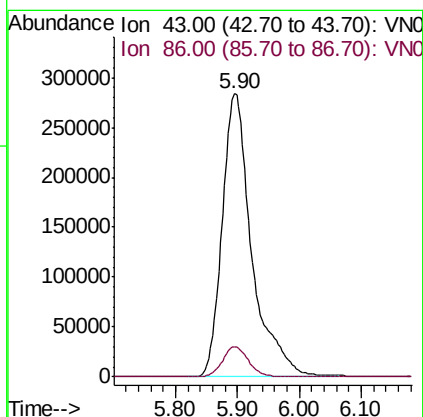
RT: 5.90 min Scan# 1282

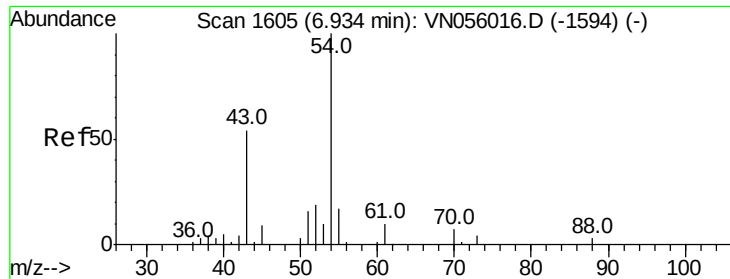
Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Tgt Ion:	43	Resp:	946198
Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.9	11.9





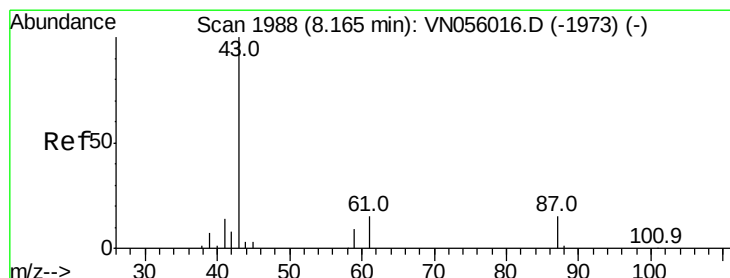
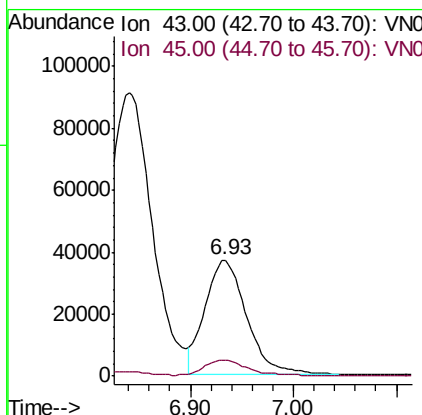
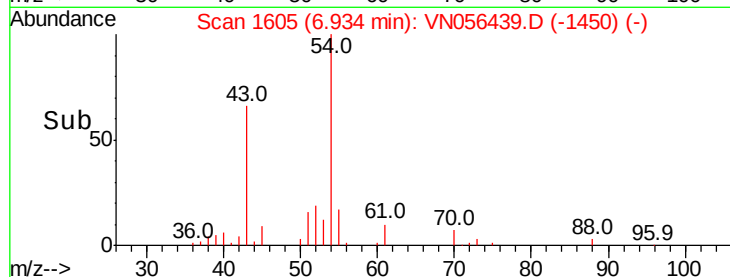
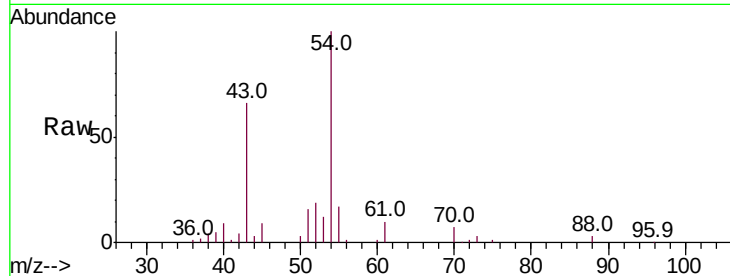
#43
Ethyl Acetate
Concen: 22.448 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 43 Resp: 103728
Ion Ratio Lower Upper
43 100
45 15.4 12.3 18.5

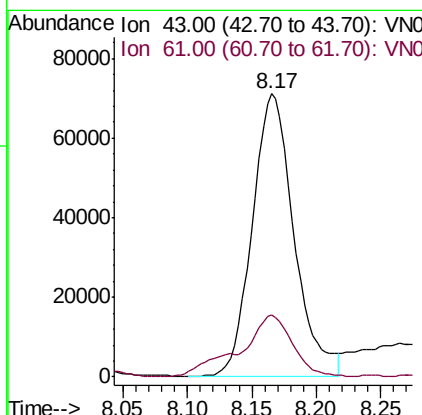
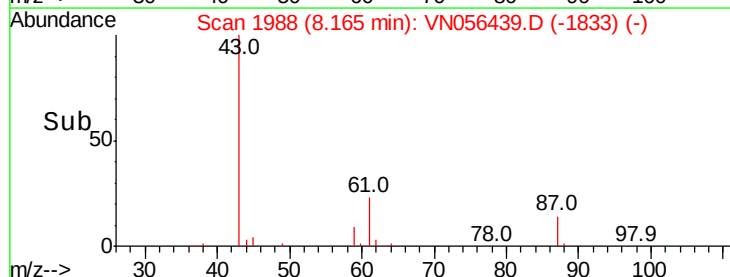
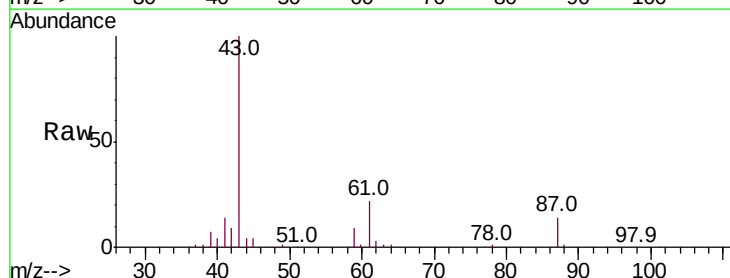
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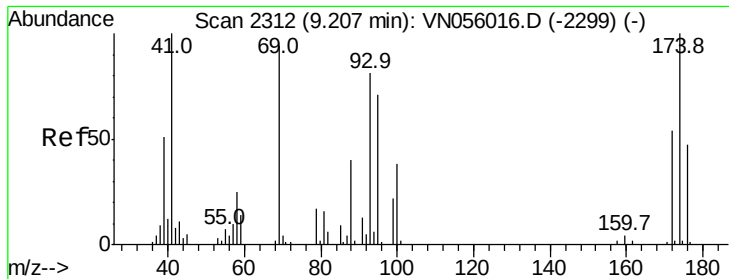
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#44
Isopropyl Acetate
Concen: 22.257 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion: 43 Resp: 159685
Ion Ratio Lower Upper
43 100
61 21.1 16.9 25.3





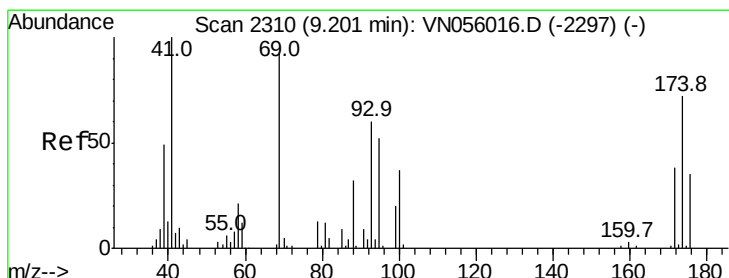
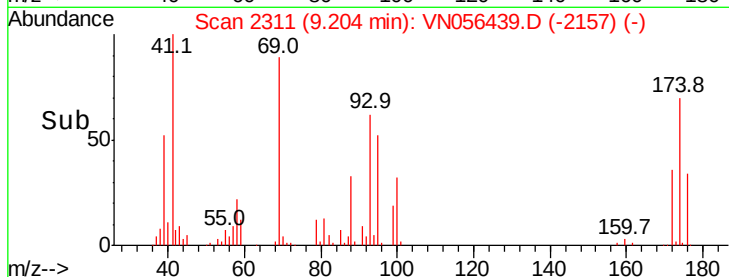
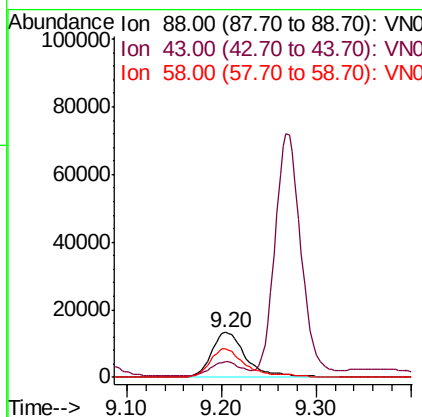
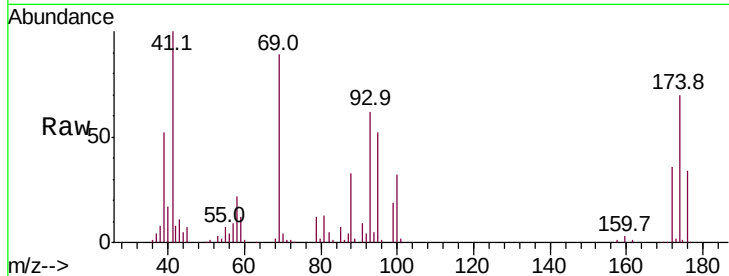
#45
 1,4-Dioxane
 Concen: 443.257 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	88	Resp	34019
Ion	Ratio	Lower	Upper
88	100		
43	27.4	19.8	29.6
58	62.4	48.5	72.7

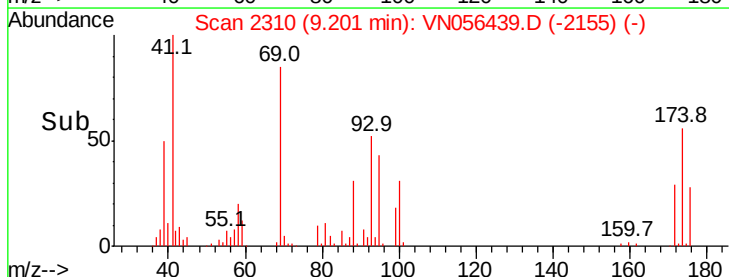
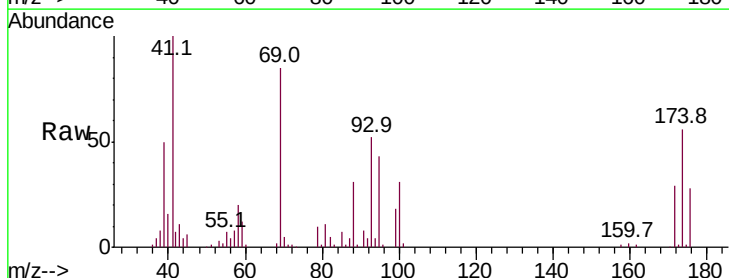
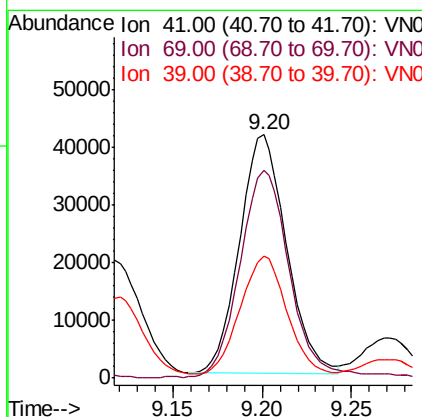
Manual Integrations
 APPROVED

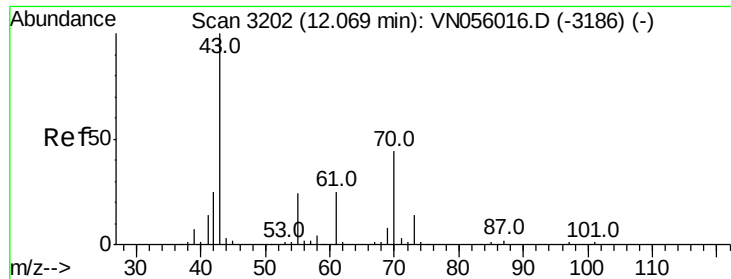
MMDadoda
 6/24/2019 4:16:02 PM



#46
 Methyl methacrylate
 Concen: 21.490 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion	41	Resp	76594
Ion	Ratio	Lower	Upper
41	100		
69	86.6	46.0	137.8
39	49.6	24.6	73.8





#47

n-amvl Acetate

Concen: 21.383 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 126870

Ion Ratio Lower Upper

43 100

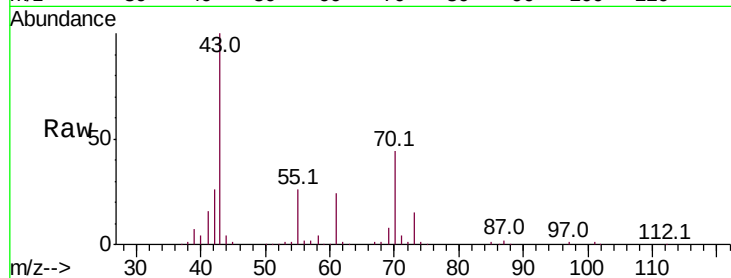
55 26.0 19.0 28.6

Manual Integrations

APPROVED

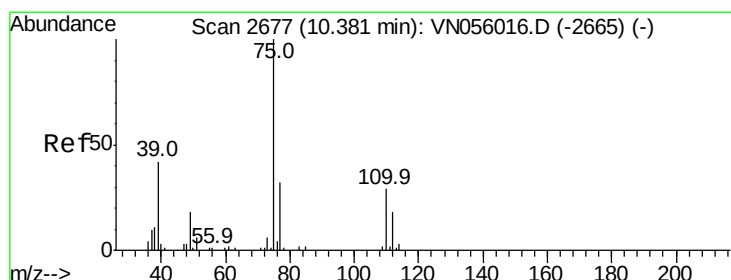
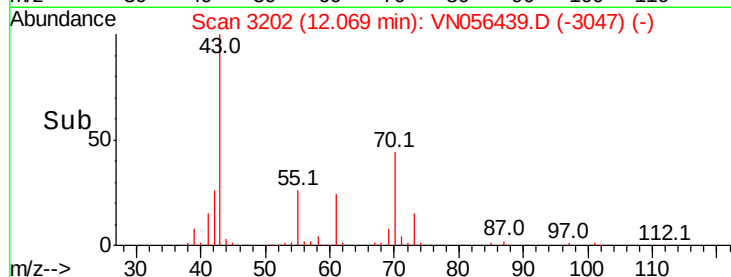
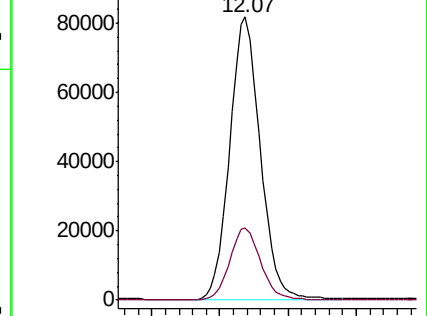
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#48

t-1,3-Dichloropropene

Concen: 19.744 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN056439.D

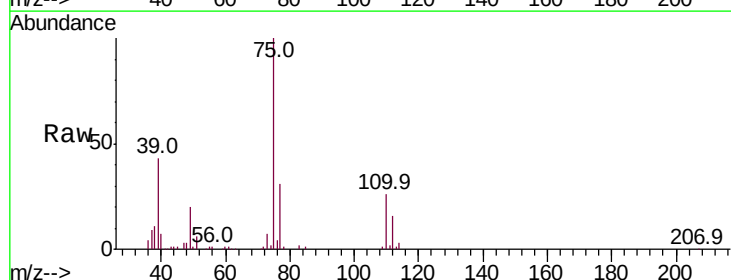
Acq: 21 Jun 2019 20:20

Tgt Ion: 75 Resp: 92326

Ion Ratio Lower Upper

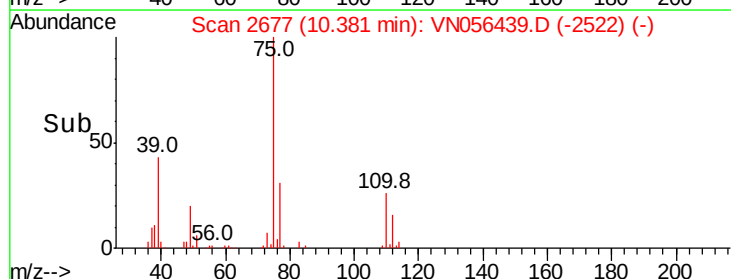
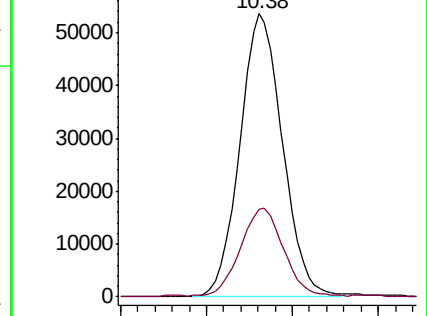
75 100

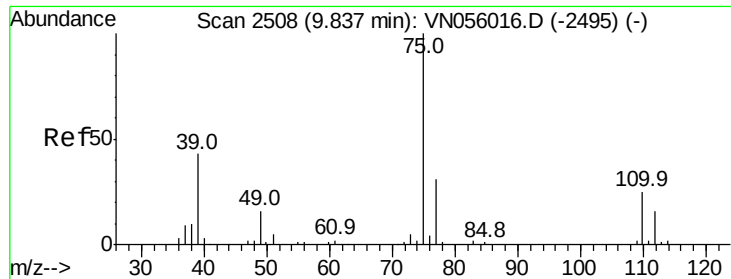
77 30.6 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#49

cis-1,3-Dichloropropene

Concen: 20.652 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

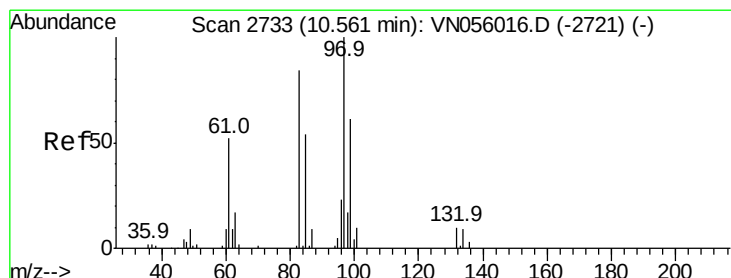
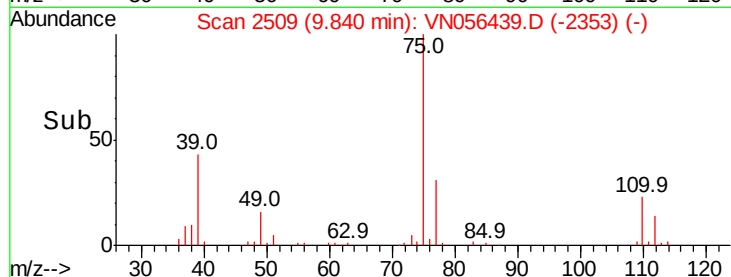
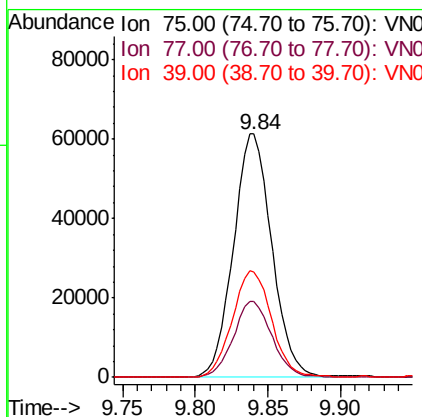
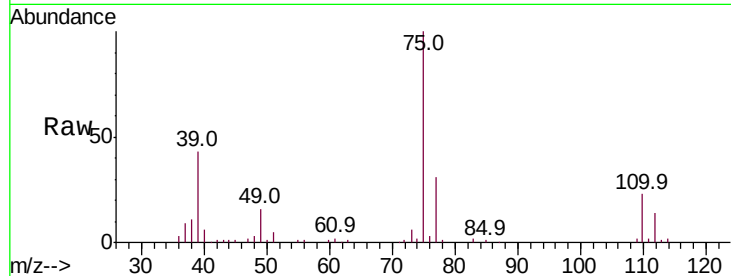
ClientSampleId :

VSTDCCC020EC

Tot Ion:	75	Resp:	113081
Ion Ratio	Lower	Upper	
75	100		
77	31.2	25.1	37.7
39	43.1	34.3	51.5

Manual Integrations
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#50

1,1,2-Trichloroethane

Concen: 20.715 ug/l

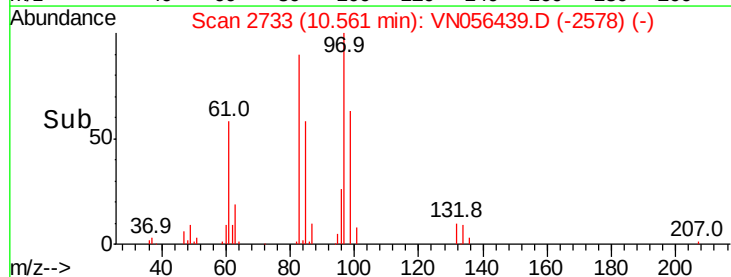
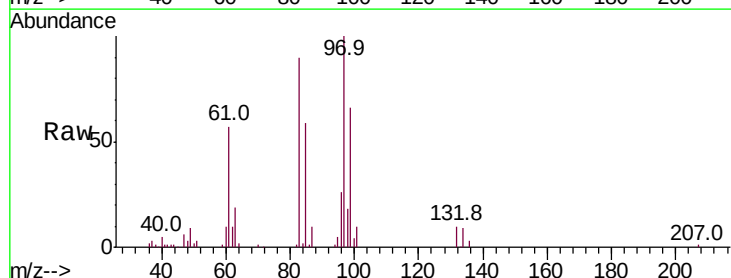
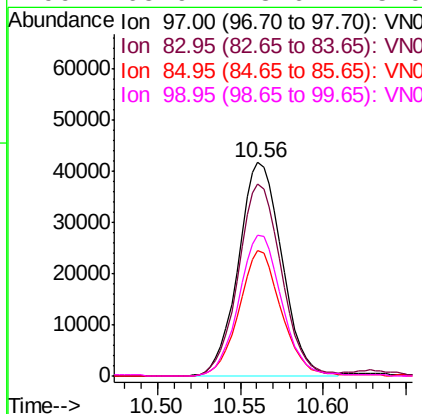
RT: 10.56 min Scan# 2733

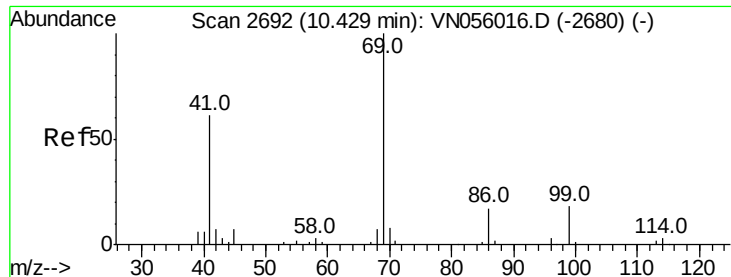
Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Tgt Ion:	97	Resp:	76349
Ion Ratio	Lower	Upper	
97	100		
83	90.0	66.9	100.3
85	59.0	43.3	64.9
99	65.9	48.6	73.0





#51

Ethyl methacrylate

Concen: 20.677 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

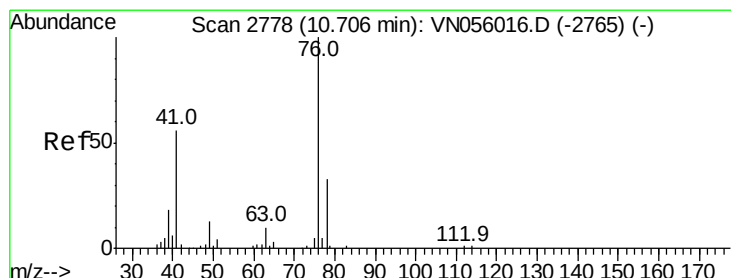
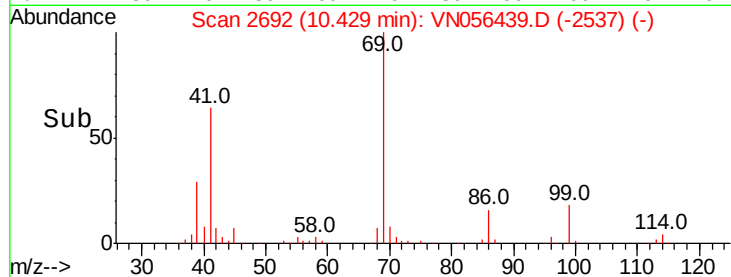
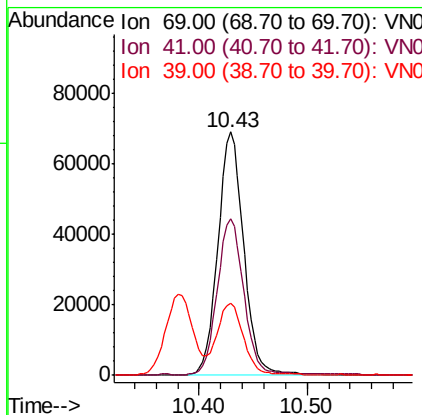
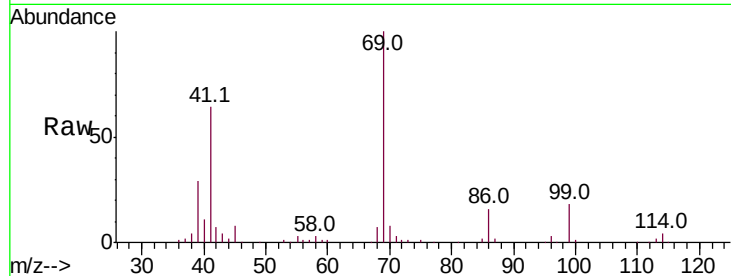
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	115295
Ion Ratio	Lower	Upper	
69	100		
41	63.7	30.8	92.3
39	29.1	14.5	43.6

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 21.986 ug/l

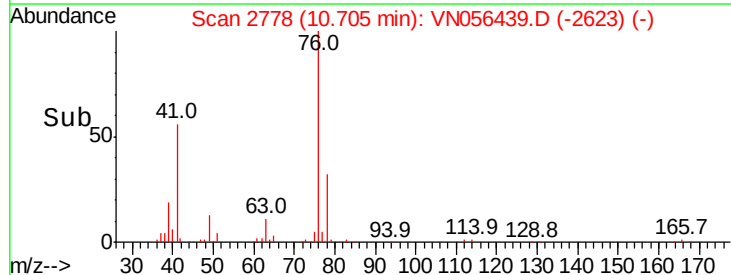
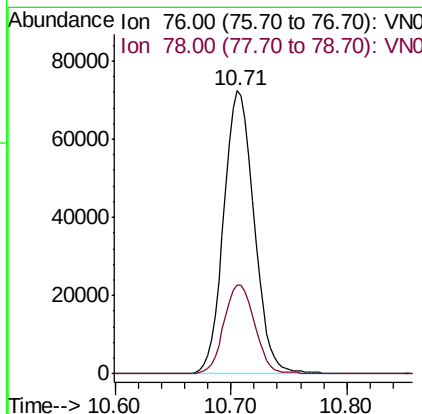
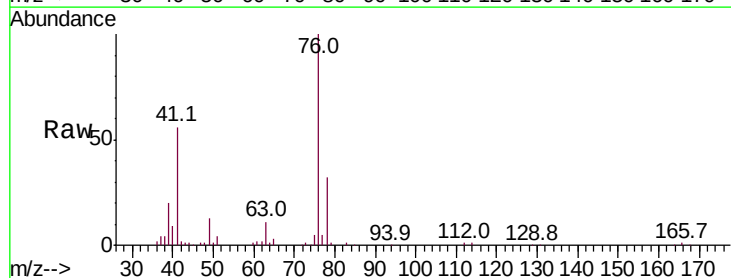
RT: 10.71 min Scan# 2778

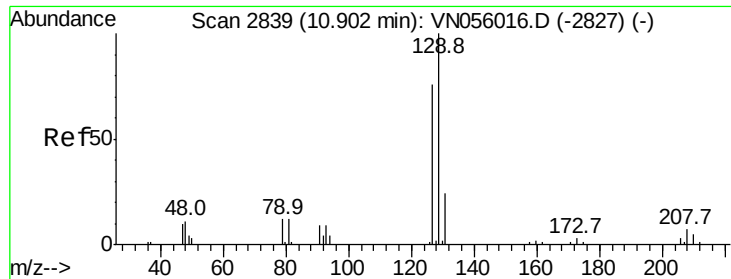
Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Tgt Ion:	76	Resp:	131372
Ion Ratio	Lower	Upper	
76	100		
78	32.1	0.0	63.4





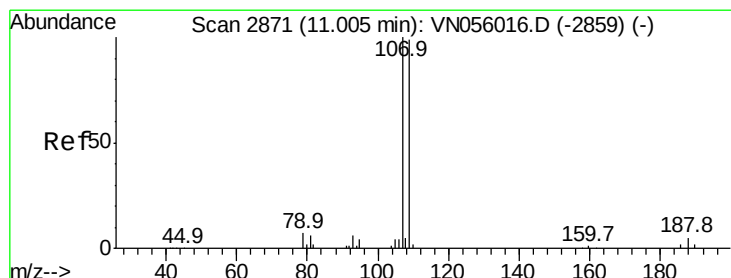
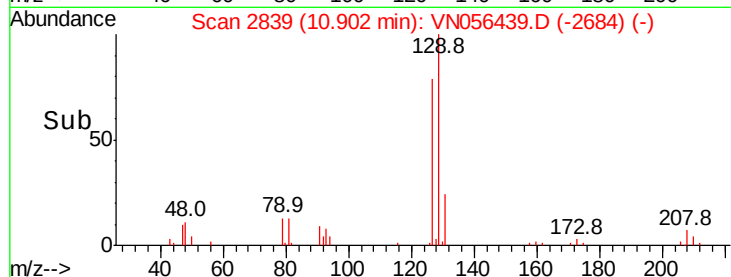
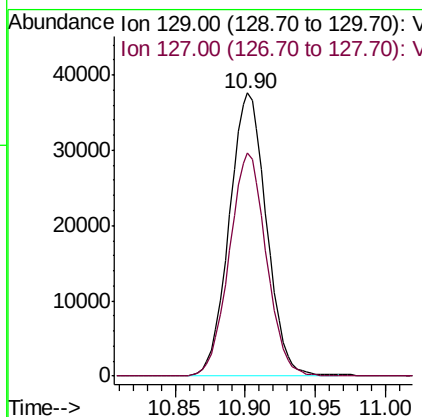
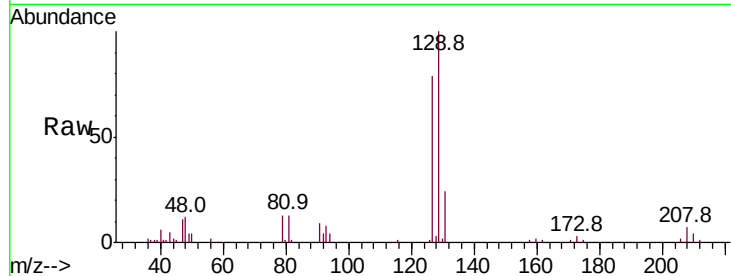
#53
Dibromochloromethane
Concen: 19.214 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:129 Resp: 69322
Ion Ratio Lower Upper
129 100
127 78.3 39.1 117.5

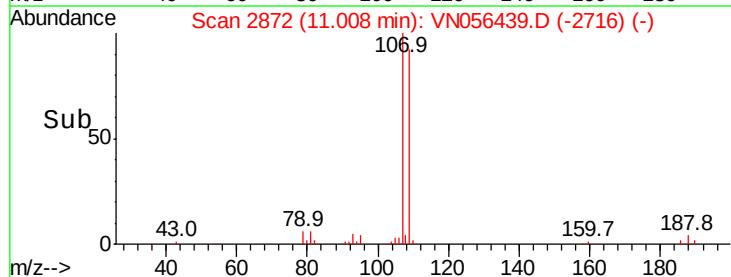
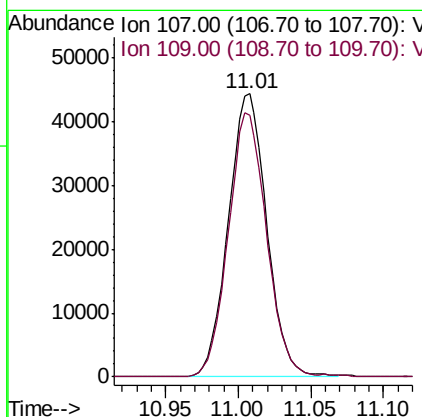
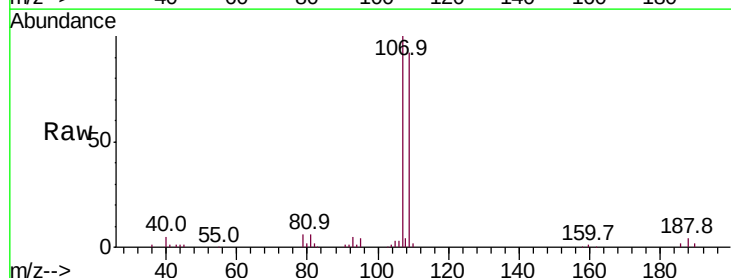
Manual Integrations
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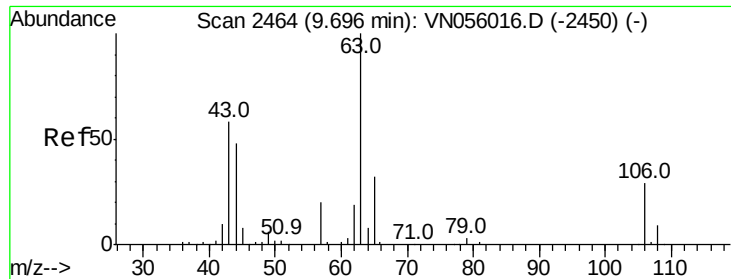
MMDadoda
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#54
1,2-Dibromoethane
Concen: 21.162 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion:107 Resp: 81390
Ion Ratio Lower Upper
107 100
109 92.7 76.8 115.2





#55

2-Chloroethyl vinyl ether

Concen: 94.974 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

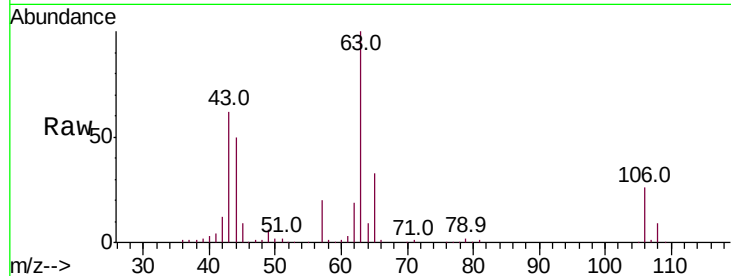
ClientSampleId :

VSTDCCC020EC

Tot Ion:	63	Resp:	185493
Ion	Ratio	Lower	Upper
63	100		
65	32.5	25.5	38.3
106	26.8	23.0	34.4

Manual Integrations
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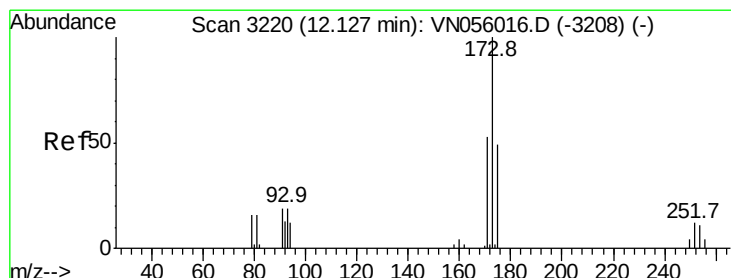
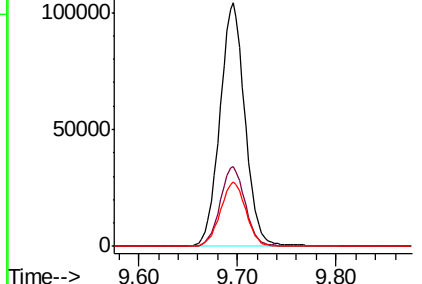
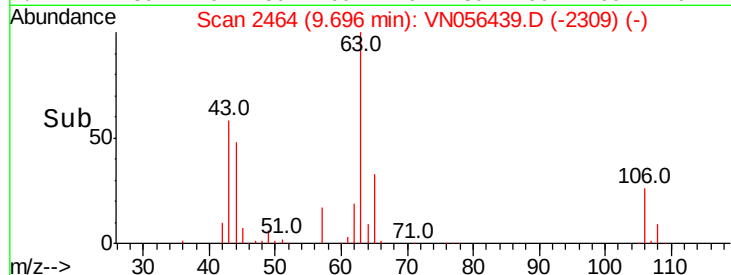


Abundance Ion 63.00 (62.70 to 63.70): VN056016.D (-2450) (-)

Ion 65.00 (64.70 to 65.70): VN056016.D (-2450) (-)

Ion 106.00 (105.70 to 106.70): VN056016.D (-2450) (-)

Time-->



#56

Bromoform

Concen: 17.849 ug/l

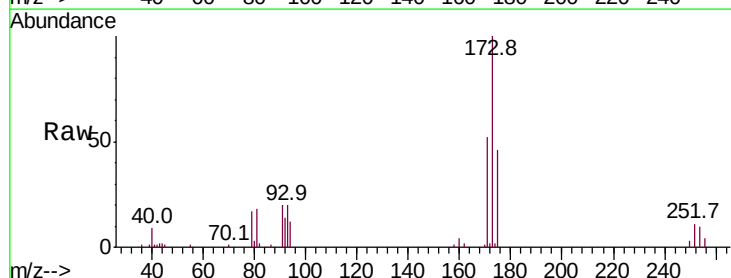
RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Tgt Ion:	173	Resp:	46587
Ion	Ratio	Lower	Upper
173	100		
175	46.4	38.7	58.1
254	9.1	6.6	9.8

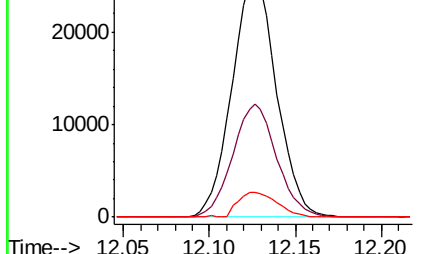
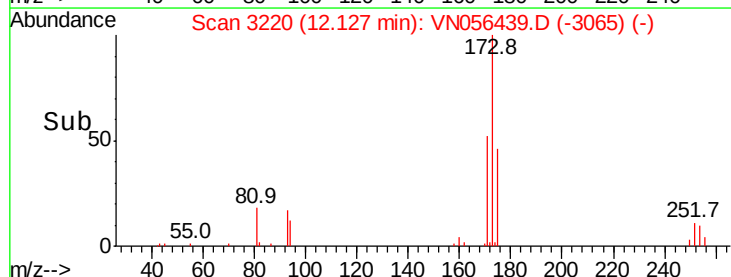


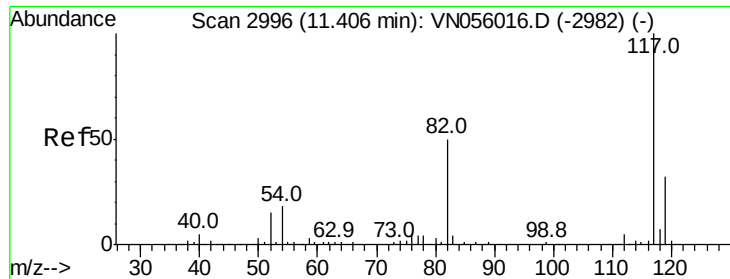
Abundance Ion 173.00 (172.70 to 173.70): VN056016.D (-3208) (-)

Ion 175.00 (174.70 to 175.70): VN056016.D (-3208) (-)

Ion 254.00 (253.70 to 254.70): VN056016.D (-3208) (-)

Time-->





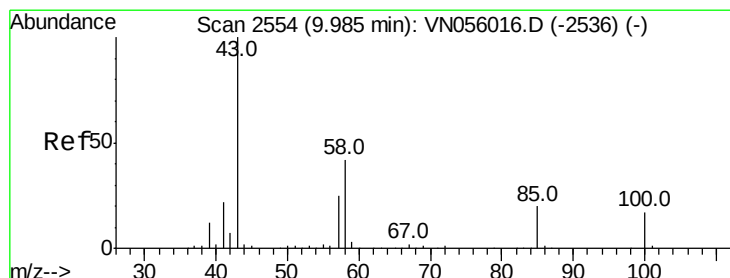
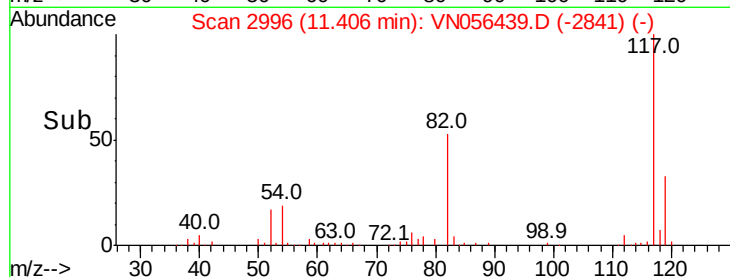
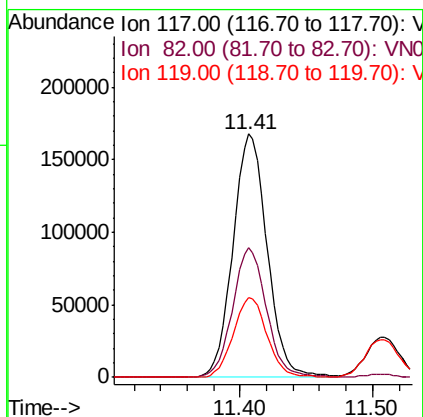
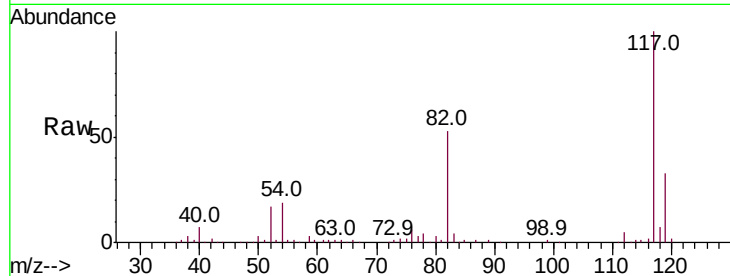
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.7	41.2	61.8
119	32.4	26.2	39.2

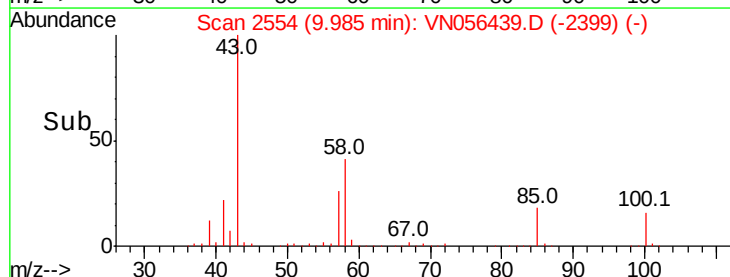
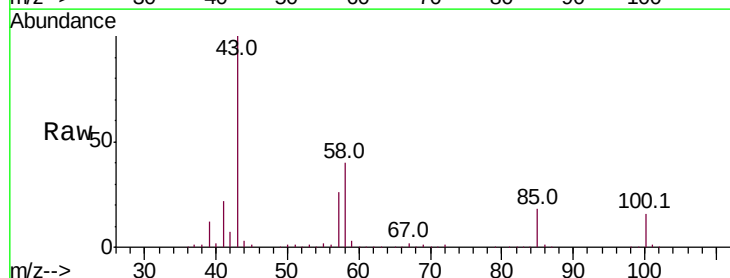
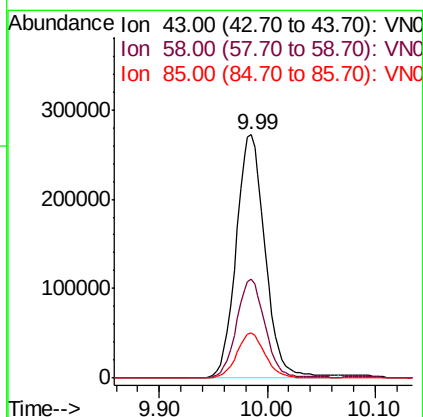
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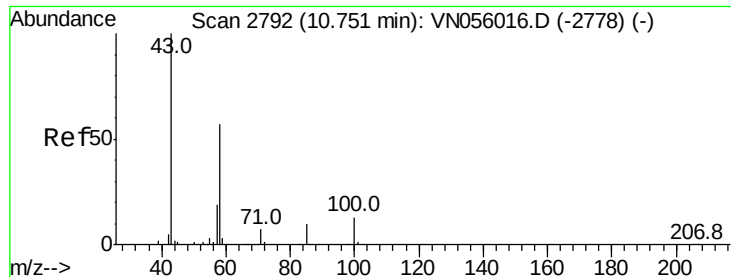
MMDadoda
6/24/2019 4:16:02 PM



#58
4-Methyl-2-Pentanone
Concen: 111.828 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.3	33.1	49.7
85	18.0	15.5	23.3





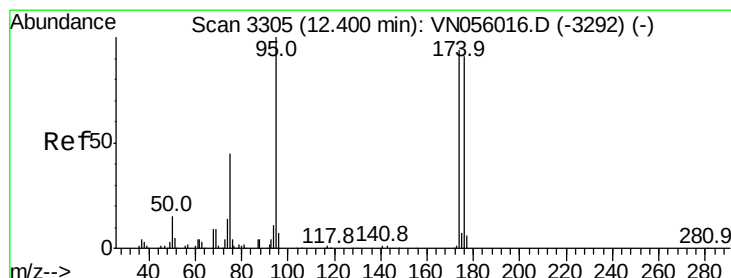
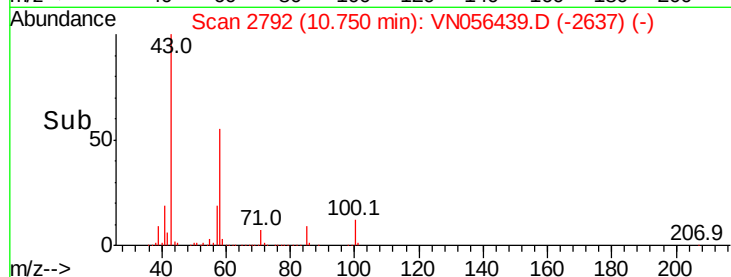
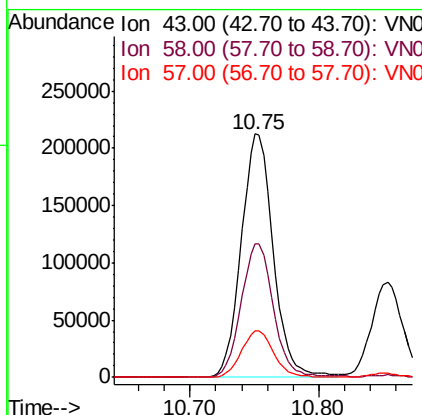
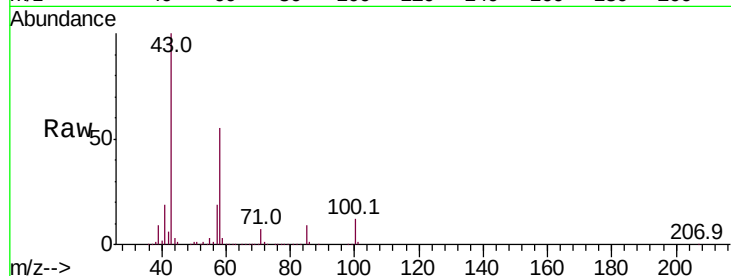
#59
2-Hexanone
Concen: 112.501 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.8	45.3	67.9
57	19.7	15.6	23.4

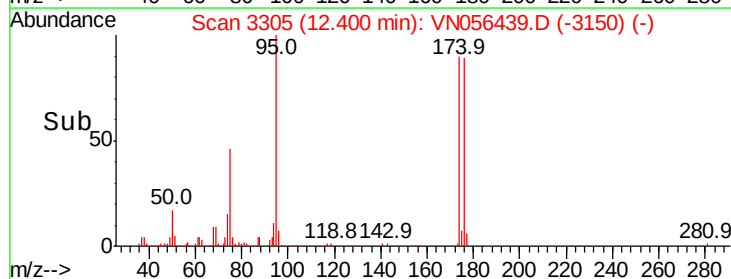
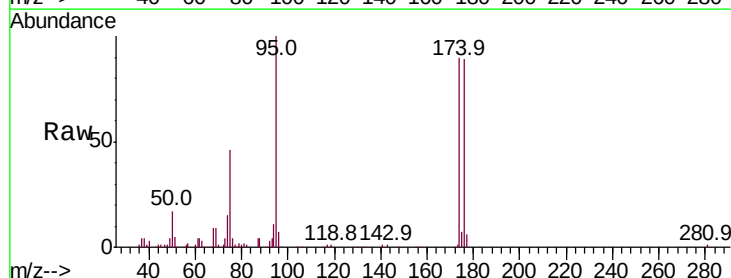
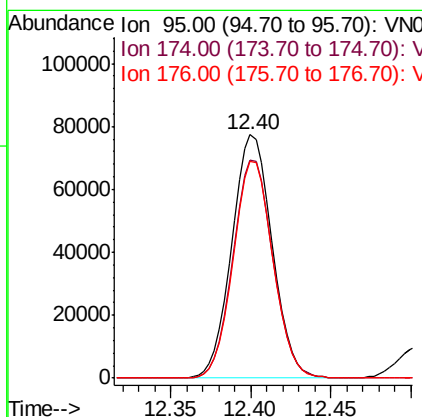
Manual Integrations
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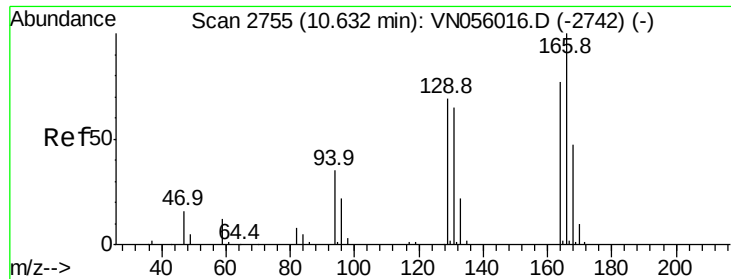
MMDadoda
6/24/2019 4:16:02 PM



#60
4-Bromofluorobenzene
Concen: 29.821 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.8	75.4	113.0
176	87.8	73.9	110.9





#61

Tetrachloroethene

Concen: 19.705 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:164 Resp: 82514

Ion Ratio Lower Upper

164 100

166 122.2 104.3 156.5

129 88.4 71.5 107.3

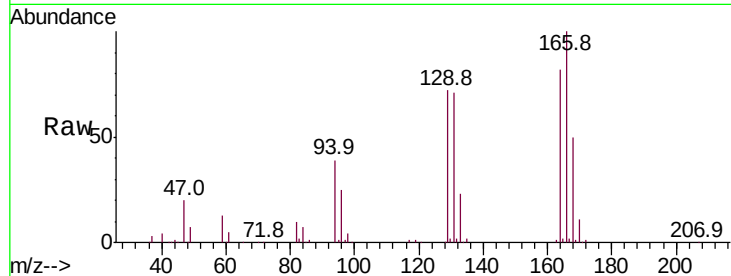
131 87.1 67.7 101.5

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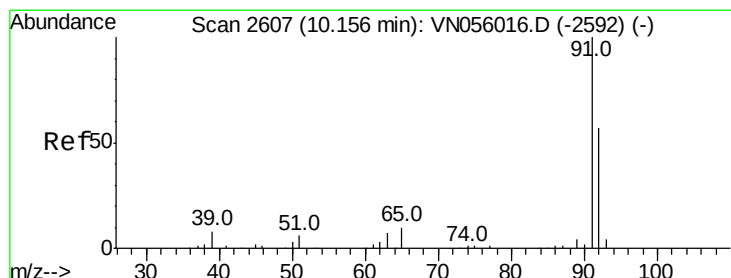
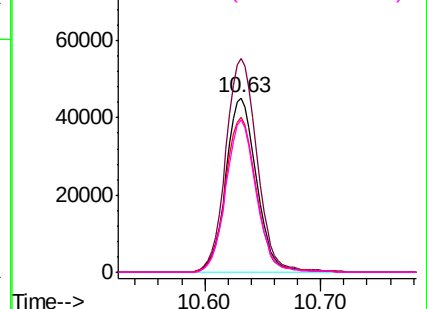
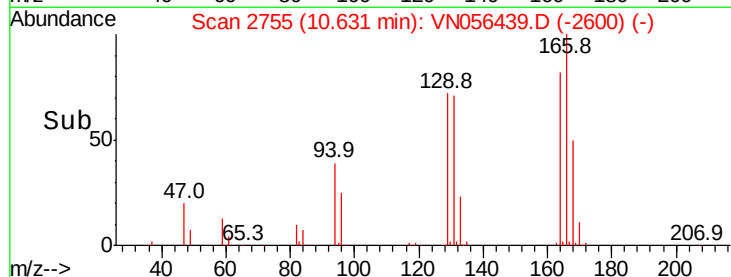


Abundance Ion 163.85 (163.55 to 164.55): V

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: 20.405 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN056439.D

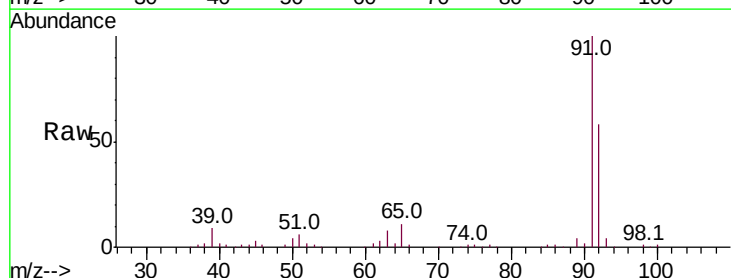
Acq: 21 Jun 2019 20:20

Tgt Ion: 91 Resp: 330958

Ion Ratio Lower Upper

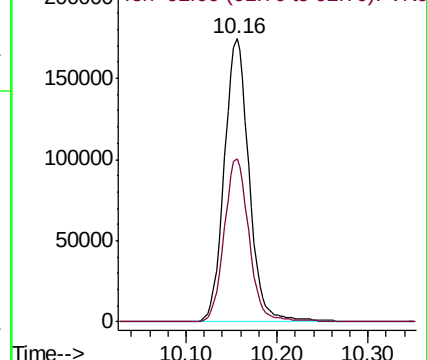
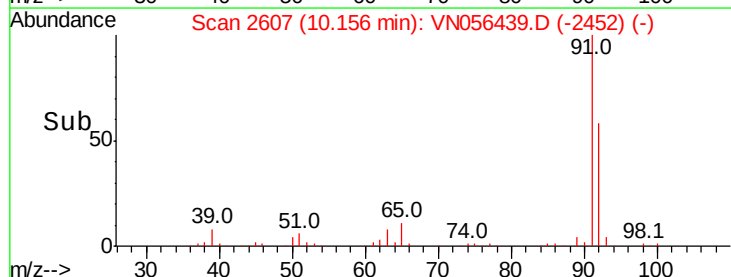
91 100

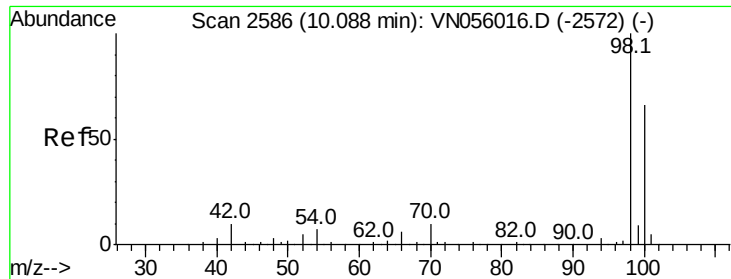
92 58.0 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.504 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 98 Resp: 415749

Ion Ratio Lower Upper

98 100

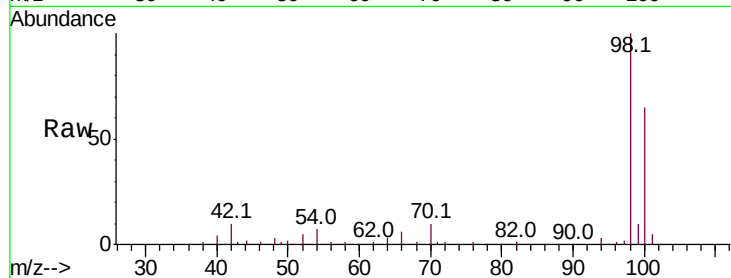
100 63.8 52.2 78.4

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Abundance Ion 98.00 (97.70 to 98.70): VN056016.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN056016.D (-2572) (-)

250000

200000

150000

100000

50000

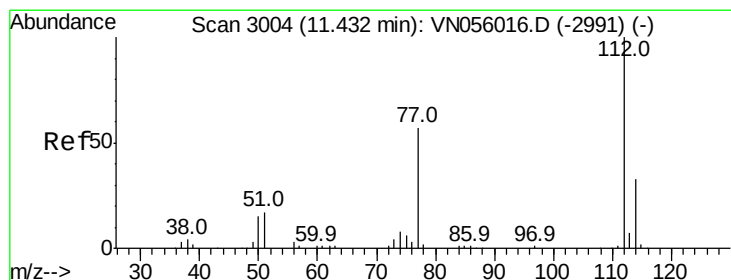
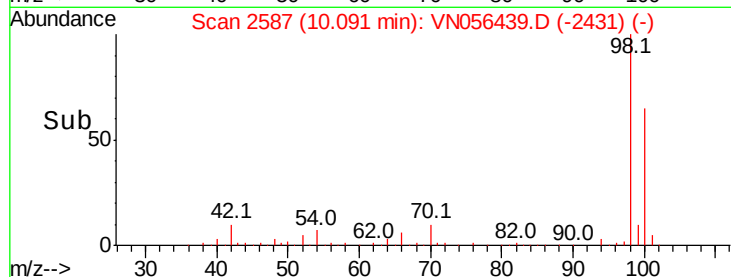
0

10.09

10.10

10.20

Time-->



#64

Chlorobenzene

Concen: 20.657 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN056439.D

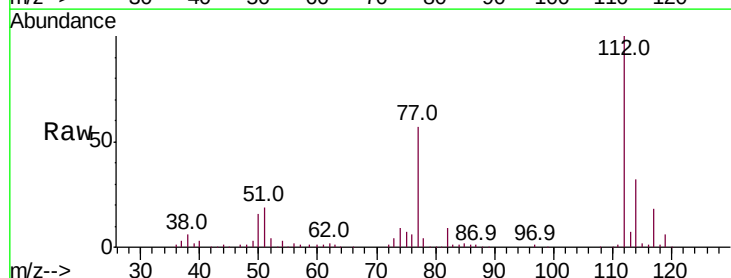
Acq: 21 Jun 2019 20:20

Tgt Ion: 112 Resp: 203223

Ion Ratio Lower Upper

112 100

114 31.8 26.1 39.1



Abundance Ion 112.00 (111.70 to 112.70): VN056016.D (-2991) (-)

Ion 114.00 (113.70 to 114.70): VN056016.D (-2991) (-)

120000

100000

80000

60000

40000

20000

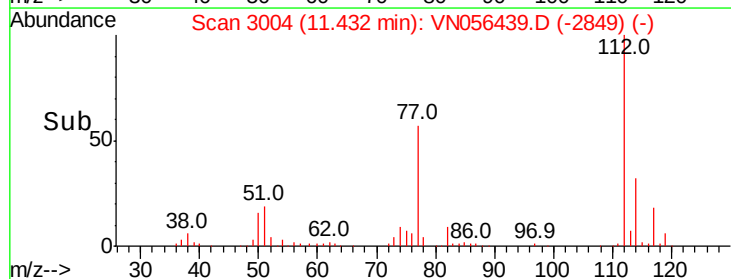
0

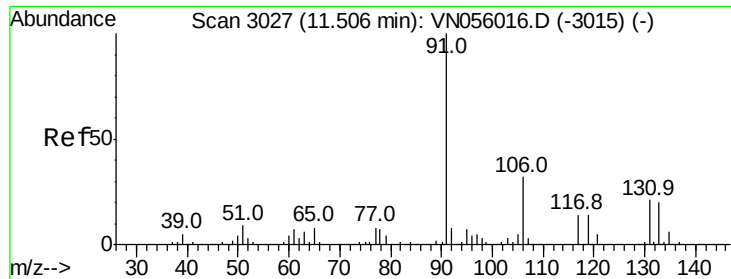
11.43

11.40

11.50

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 19.913 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:131 Resp: 70642

Ion Ratio Lower Upper

131 100

133 97.1 0.0 193.8

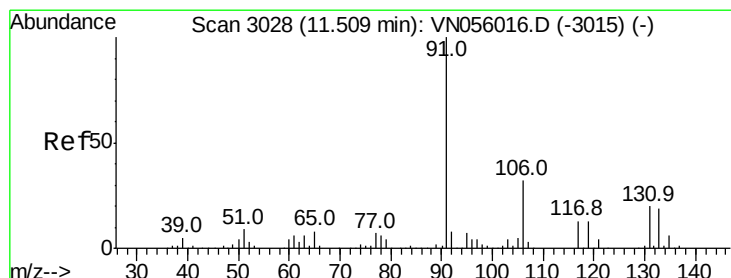
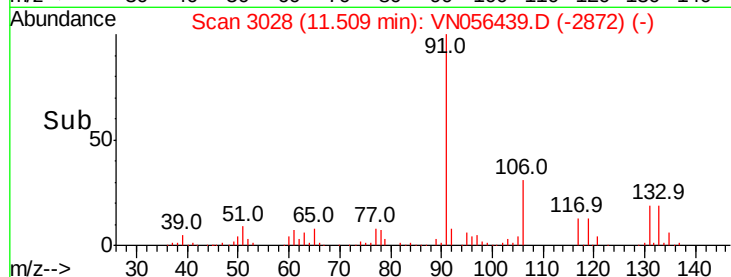
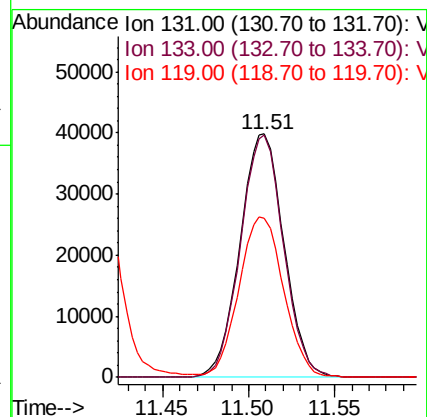
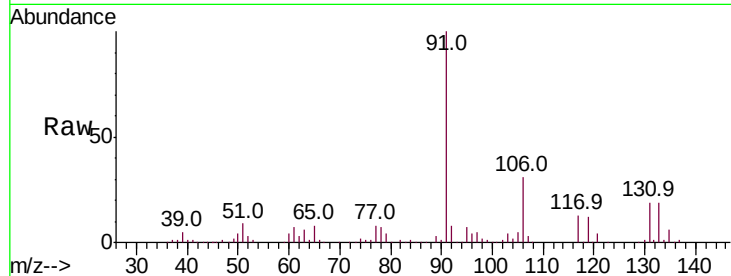
119 67.0 0.0 134.4

Manual Integrations

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6/24/2019 4:16:02 PM



#66

Ethyl Benzene

Concen: 20.517 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN056439.D

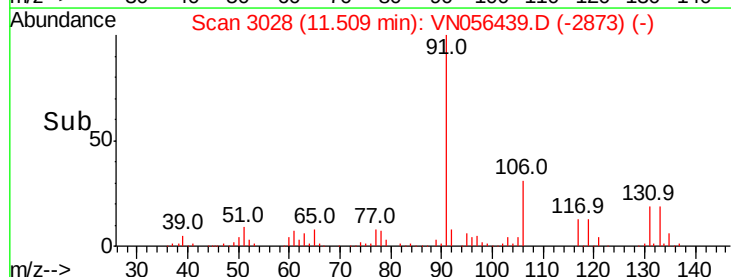
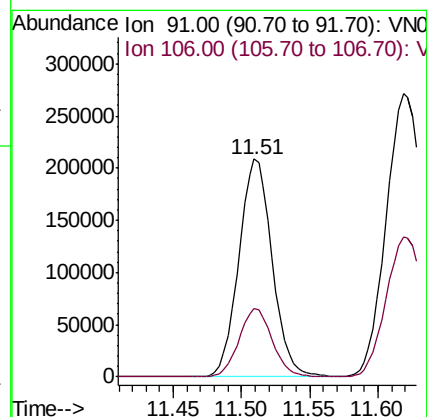
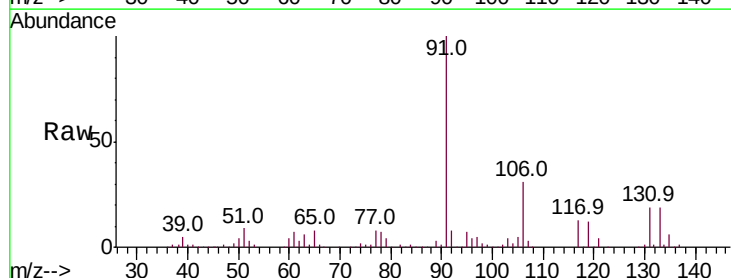
Acq: 21 Jun 2019 20:20

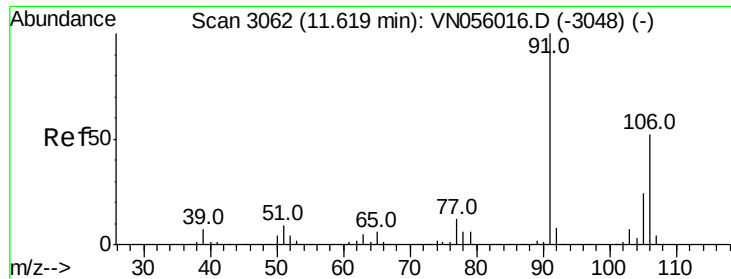
Tgt Ion: 91 Resp: 354428

Ion Ratio Lower Upper

91 100

106 31.4 25.7 38.5





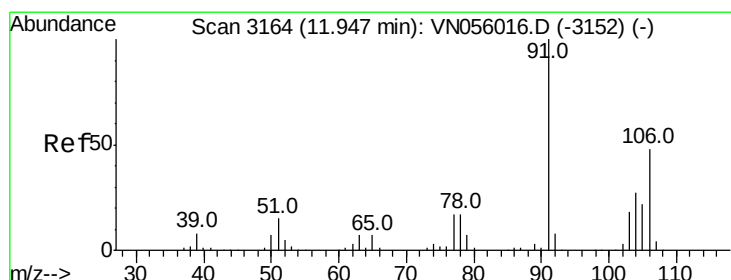
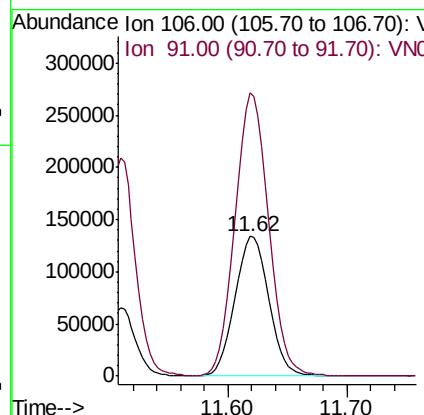
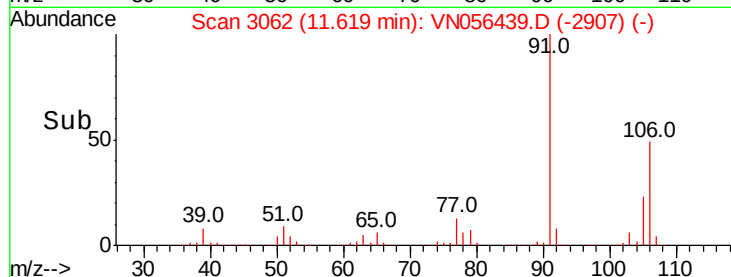
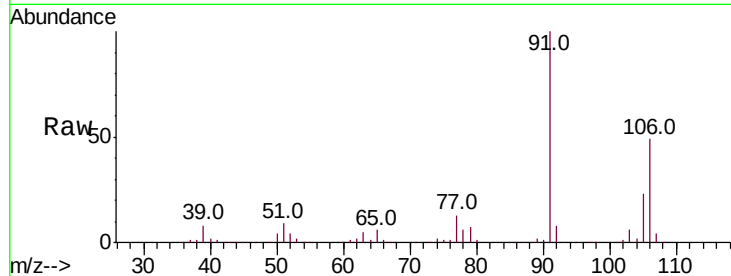
#67
m/p-Xylenes
Concen: 40.074 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:106 Resp: 264980
Ion Ratio Lower Upper
106 100
91 200.3 155.7 233.5

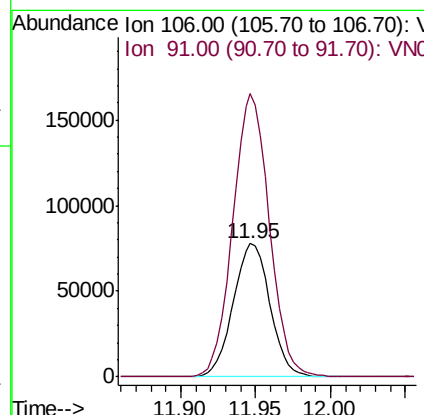
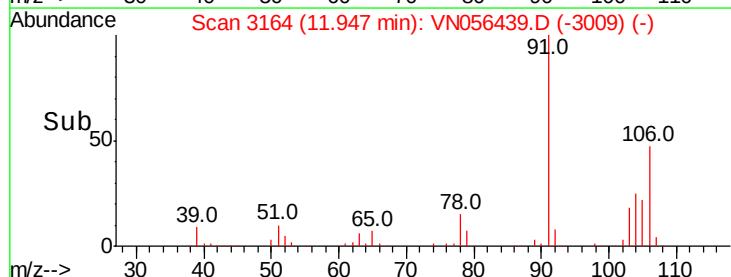
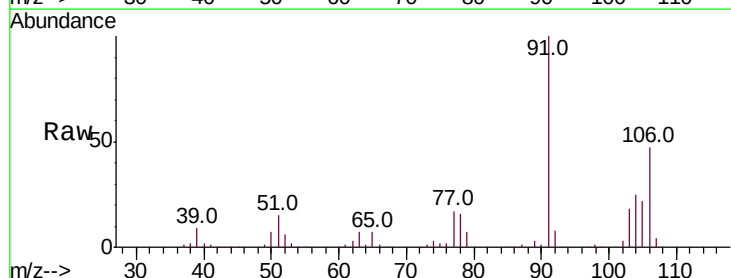
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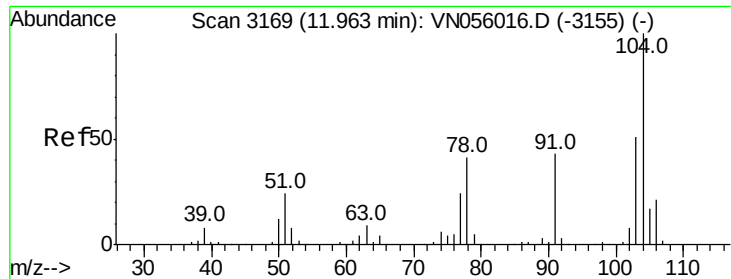
MMDadoda
6/24/2019 4:16:02 PM



#68
o-Xylene
Concen: 20.576 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion:106 Resp: 133200
Ion Ratio Lower Upper
106 100
91 210.6 103.9 311.7





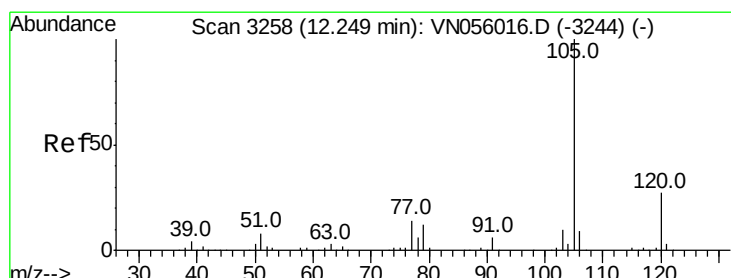
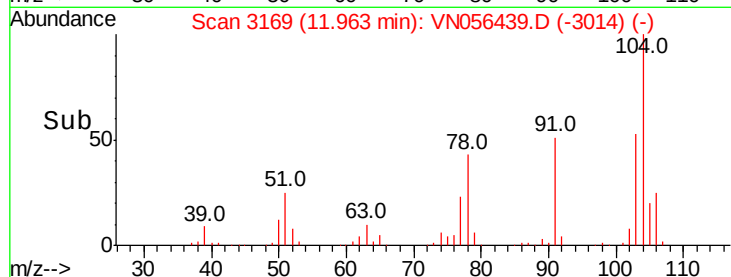
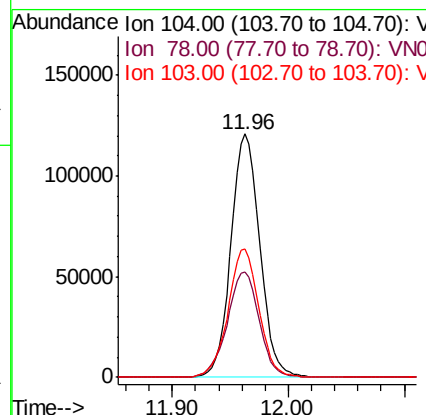
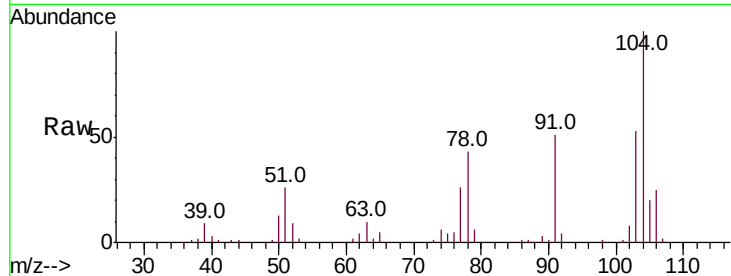
#69
Stvrene
Concen: 19.801 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.0	37.0	55.6
103	56.2	44.4	66.6

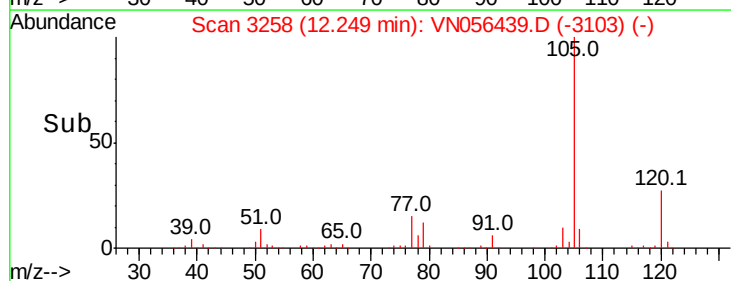
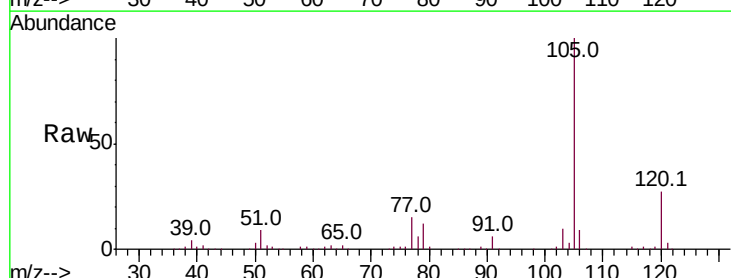
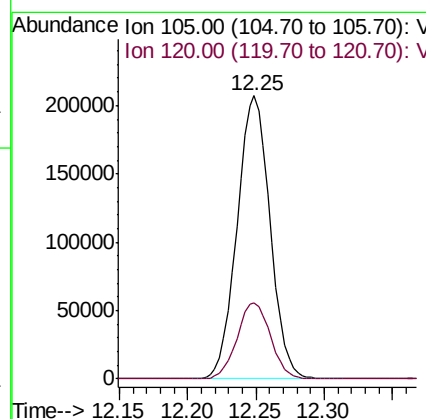
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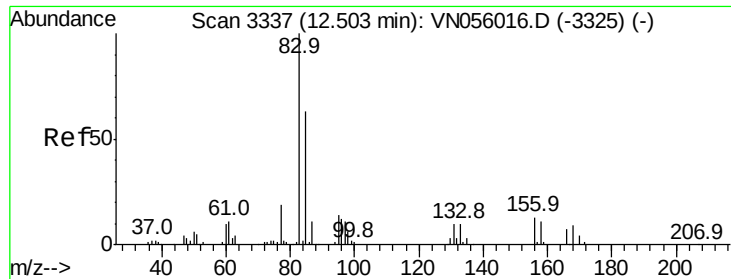
MMDadoda
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#70
Isopropylbenzene
Concen: 20.506 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.3	19.3	35.8





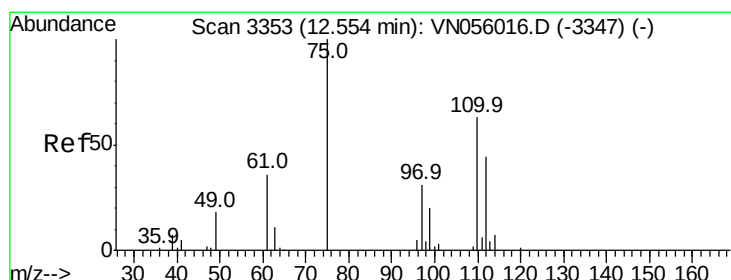
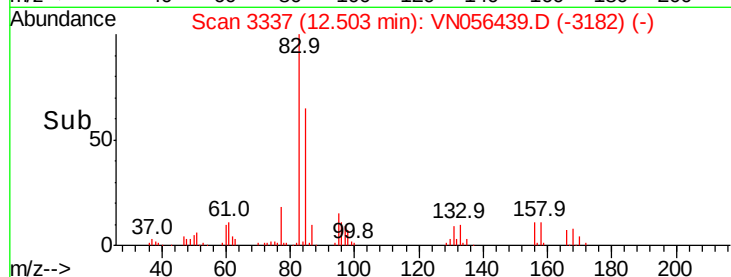
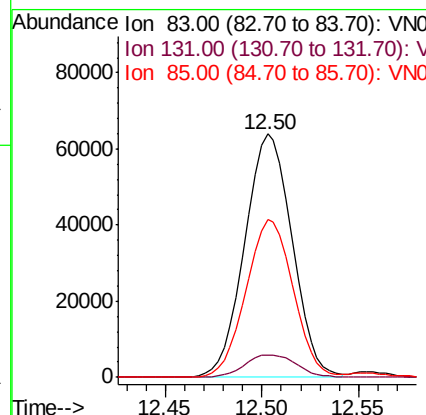
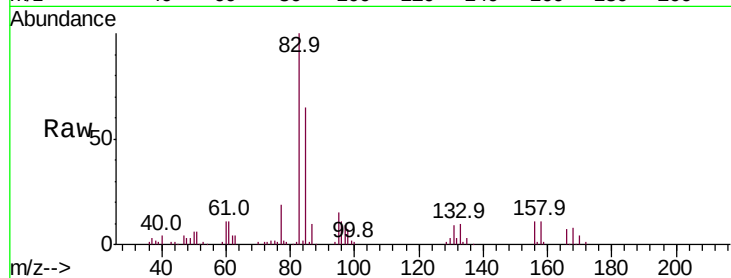
#71
 1,1,2,2-Tetrachloroethane
 Concen: 21.411 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.2	15.6
85	64.5	31.6	94.7

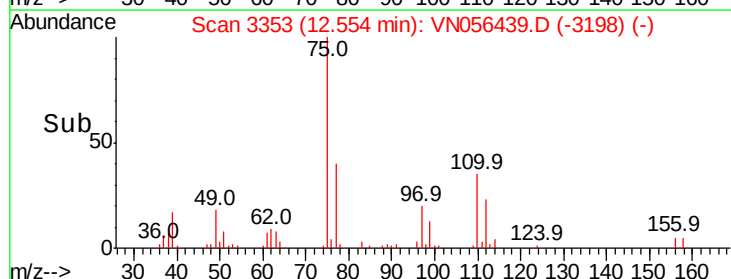
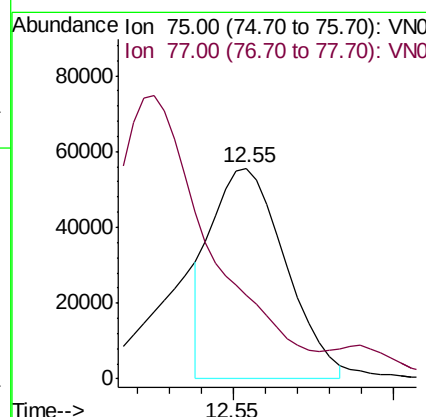
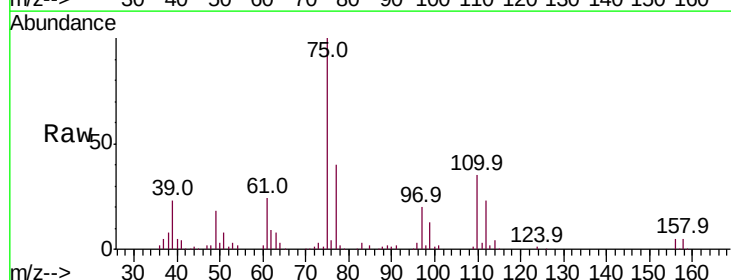
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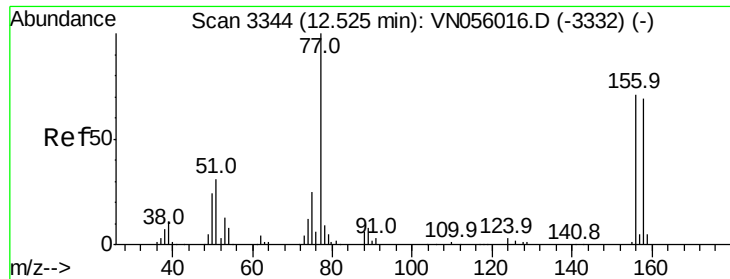
MMDadoda
 6/24/2019 4:16:02 PM



#72
 1,2,3-Trichloropropane
 Concen: 20.117 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
75	100		
77	183.8	0.0	350.0





#73

Bromobenzene

Concen: 19.757 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

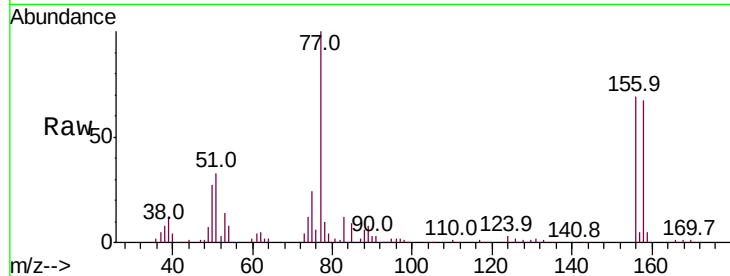
ClientSampleId :

VSTDCCC020EC

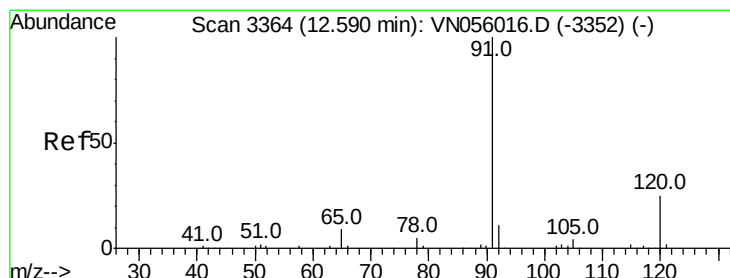
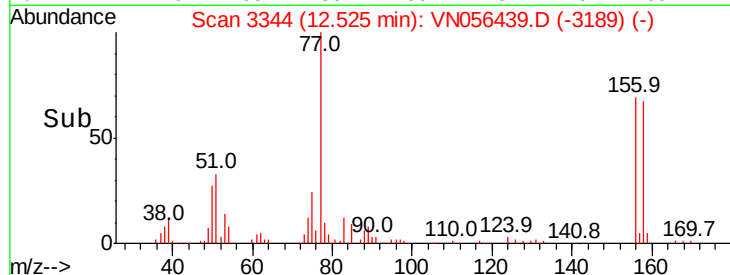
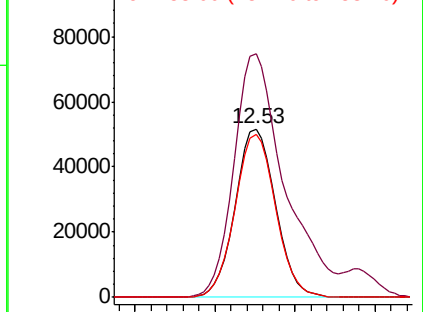
Tot Ion:	156	Resp:	88696
Ion	Ratio	Lower	Upper
156	100		
77	184.0	0.0	350.8
158	97.6	0.0	193.2

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Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): VN
Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 20.262 ug/l

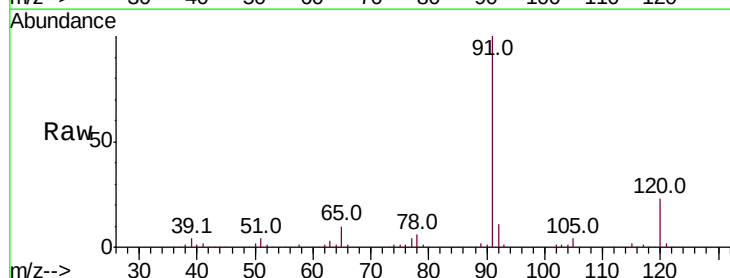
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

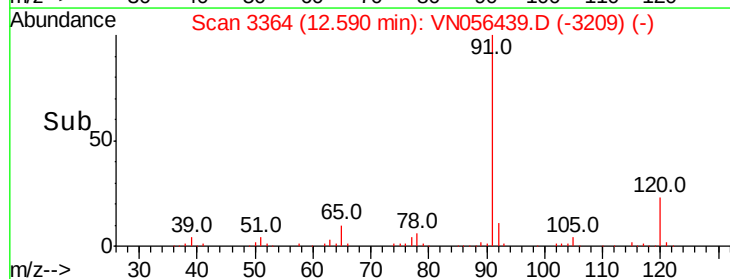
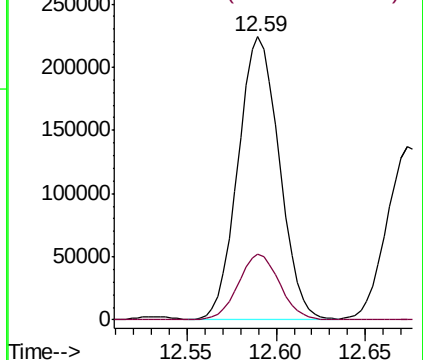
Lab File: VN056439.D

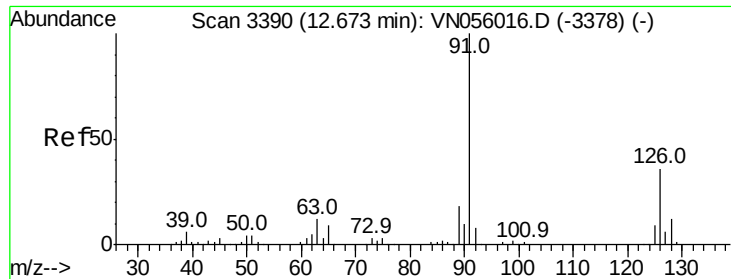
Acq: 21 Jun 2019 20:20

Tgt Ion:	91	Resp:	361653
Ion	Ratio	Lower	Upper
91	100		
120	23.1	0.0	48.6



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 20.805 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 91 Resp: 230327

Ion Ratio Lower Upper

91 100

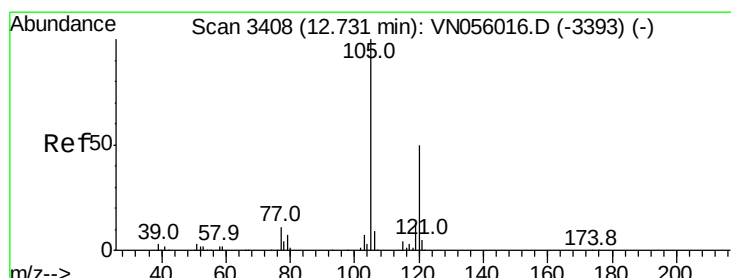
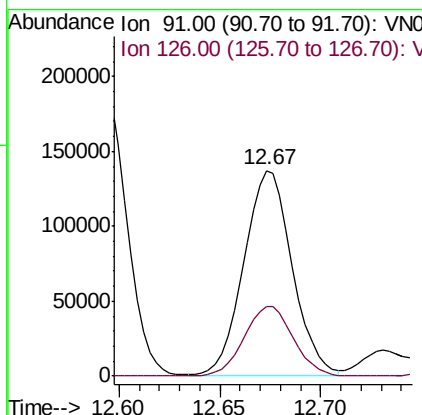
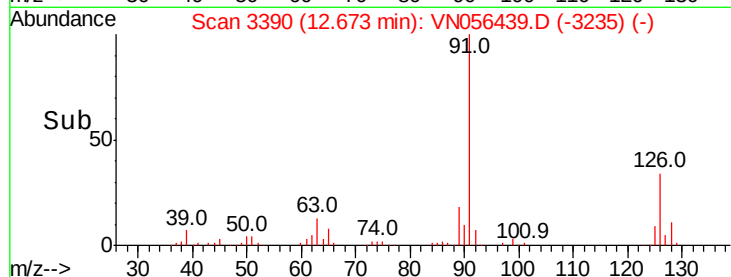
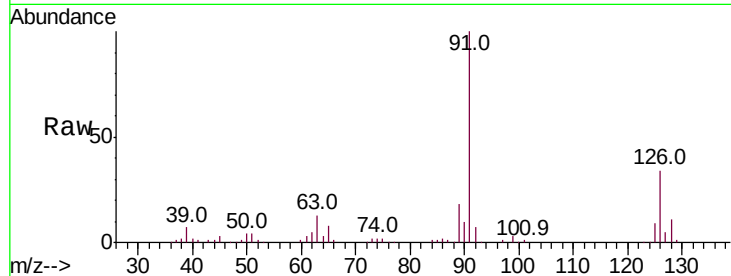
126 34.5 0.0 72.4

Manual Integrations

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6/24/2019 4:16:02 PM



#76

1,3,5-Trimethylbenzene

Concen: 20.120 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056439.D

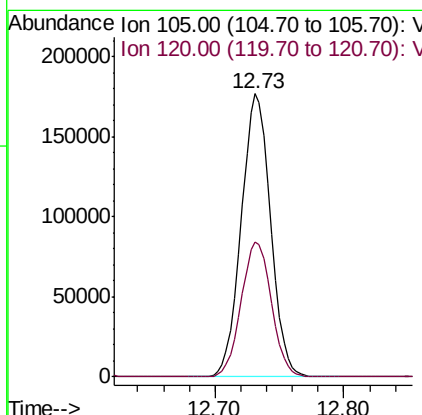
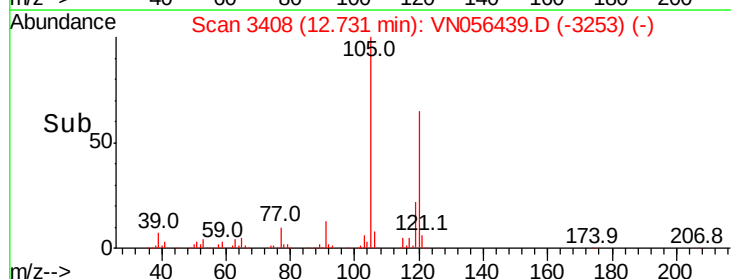
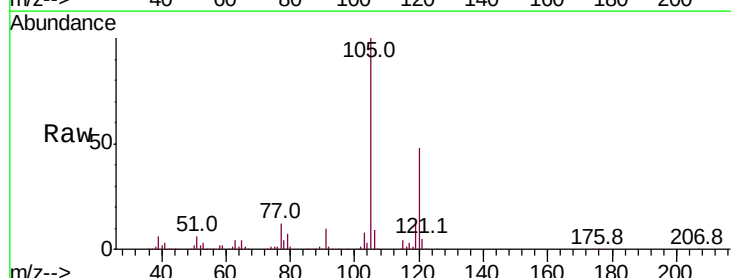
Acq: 21 Jun 2019 20:20

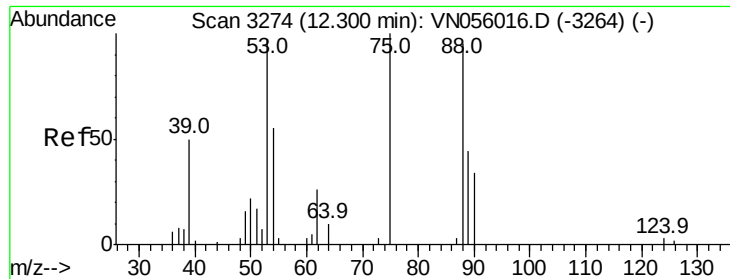
Tgt Ion: 105 Resp: 279913

Ion Ratio Lower Upper

105 100

120 49.1 0.0 100.6





#77

t-1,4-Dichloro-2-butene

Concen: 17.682 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 75 Resp: 22272

Ion Ratio Lower Upper

75 100

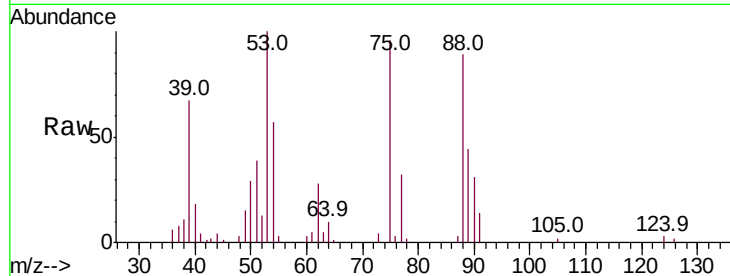
53 104.6 48.0 144.0

89 46.0 22.5 67.5

Manual Integrations
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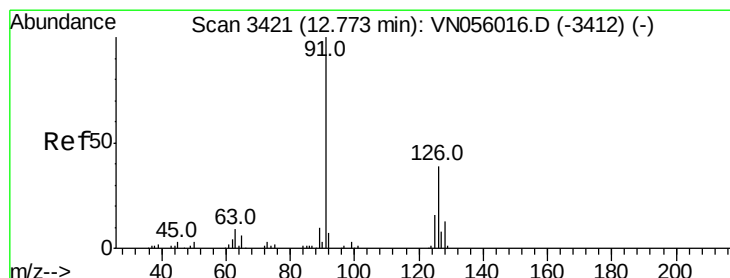
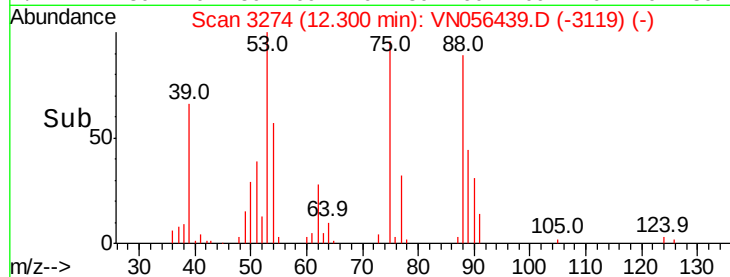
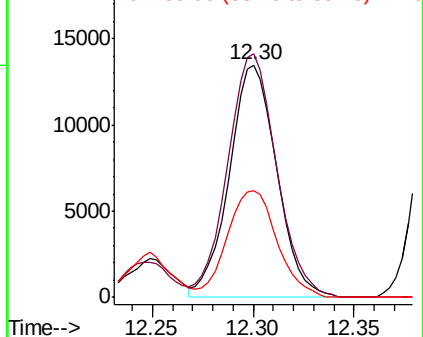
6/24/2019 4:16:02 PM



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 19.842 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN056439.D

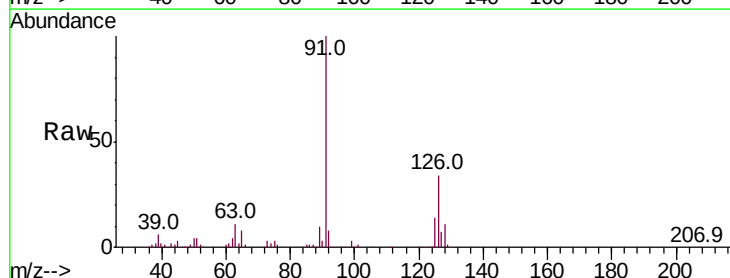
Acq: 21 Jun 2019 20:20

Tgt Ion: 91 Resp: 205153

Ion Ratio Lower Upper

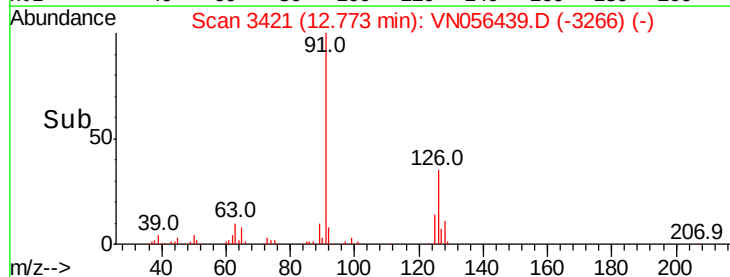
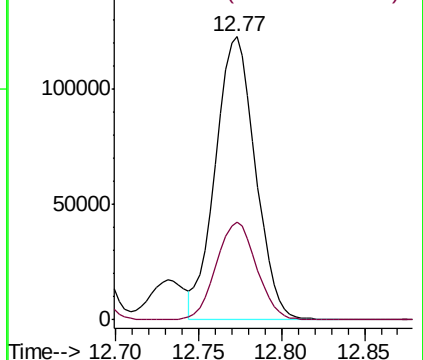
91 100

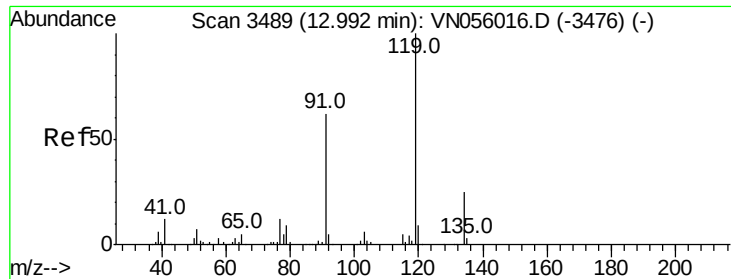
126 35.0 0.0 71.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V





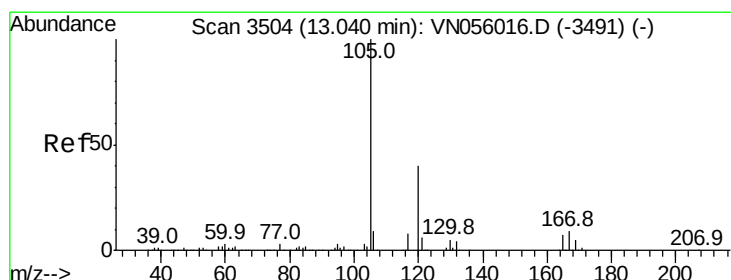
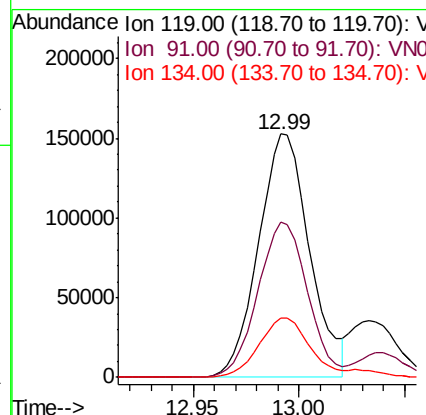
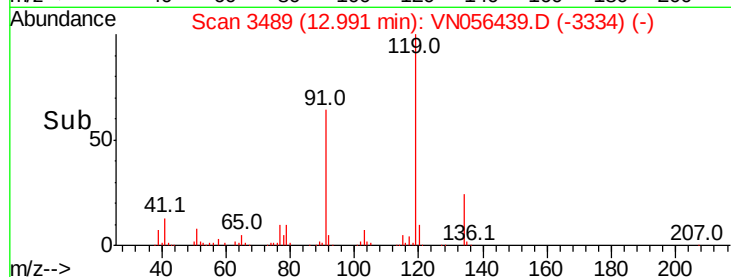
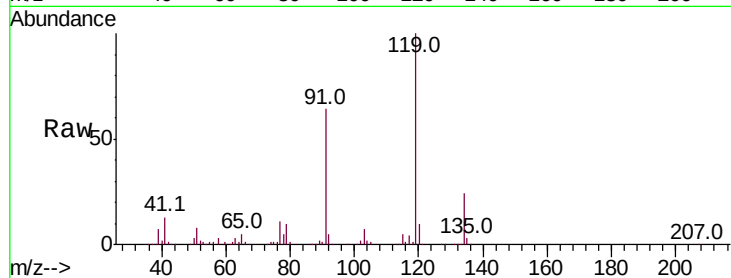
#79
tert-butylbenzene
Concen: 20.891 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	257492		
91	62.0		0.0	122.8
134	24.3		0.0	50.2

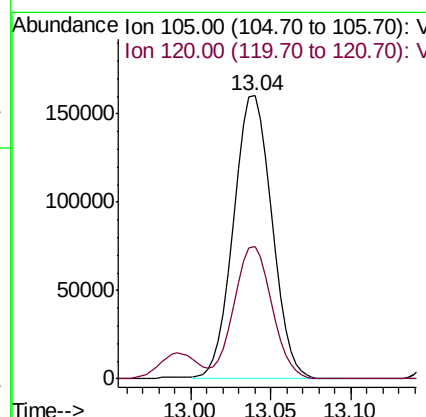
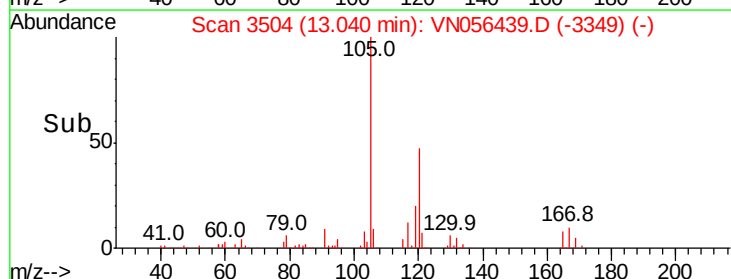
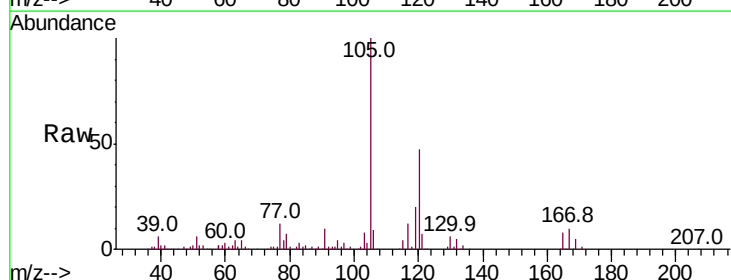
Manual Integrations
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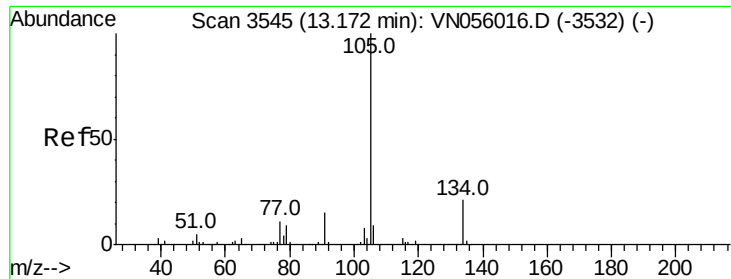
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 19.386 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	262364		
120	46.3		0.0	93.4





#81

sec-Butylbenzene

Concen: 20.429 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:105 Resp: 318533

Ion Ratio Lower Upper

105 100

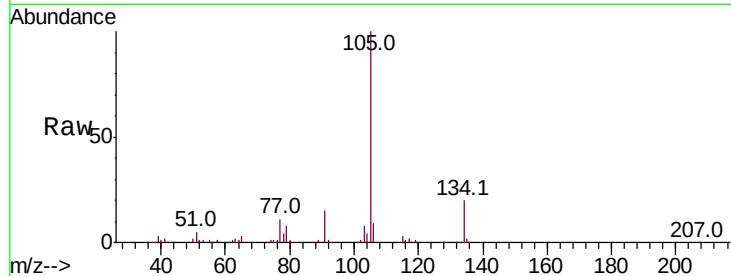
134 20.4 0.0 41.8

Manual Integrations

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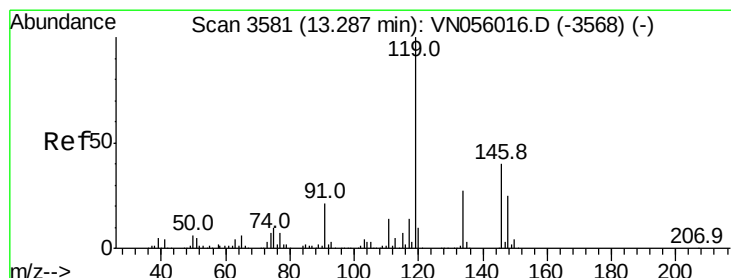
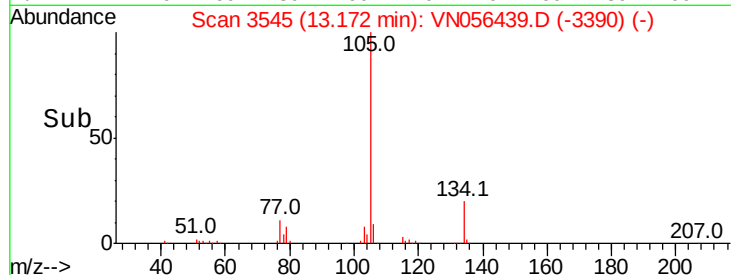
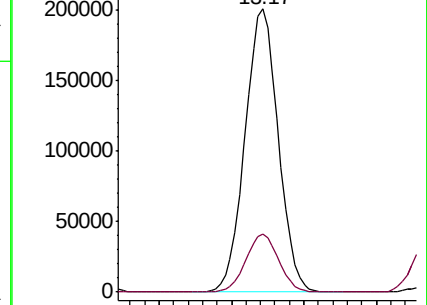
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 19.129 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

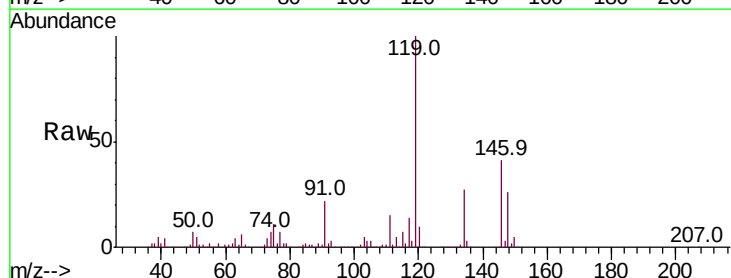
Tgt Ion:119 Resp: 269680

Ion Ratio Lower Upper

119 100

134 27.2 0.0 53.4

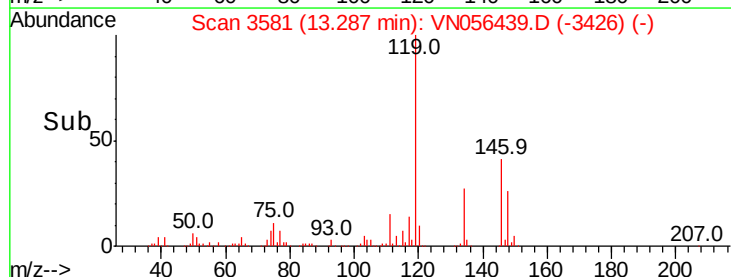
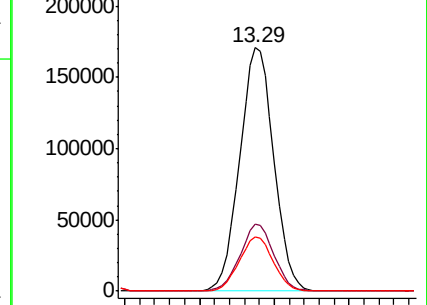
91 22.2 0.0 43.0

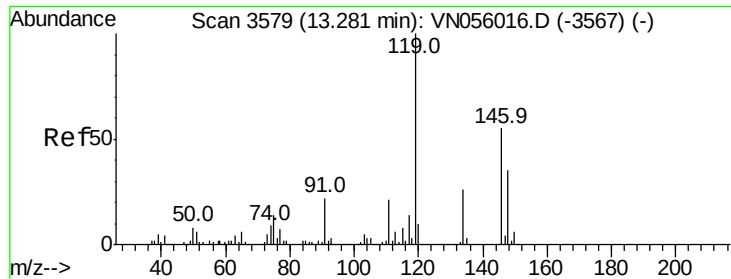


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





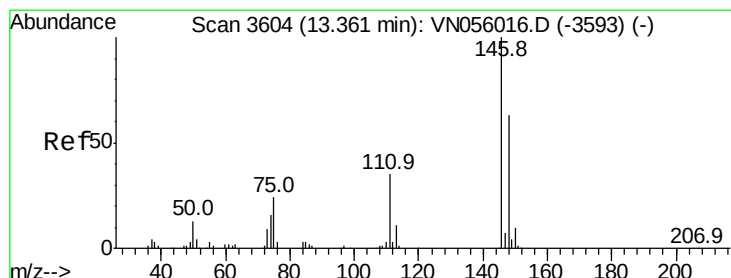
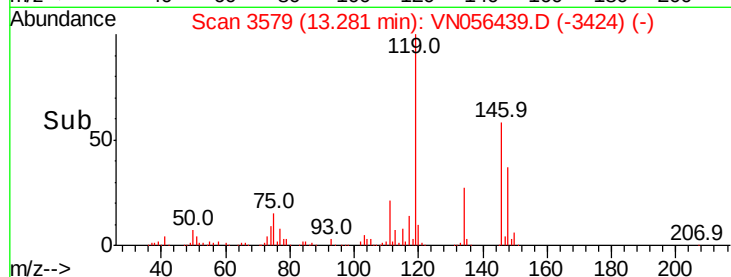
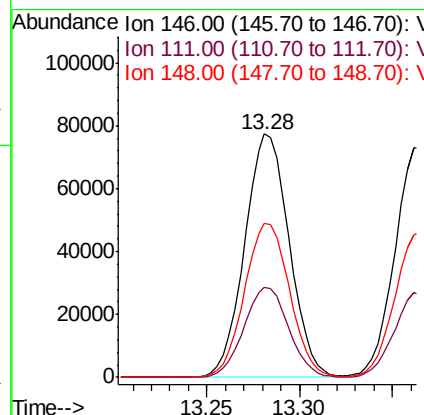
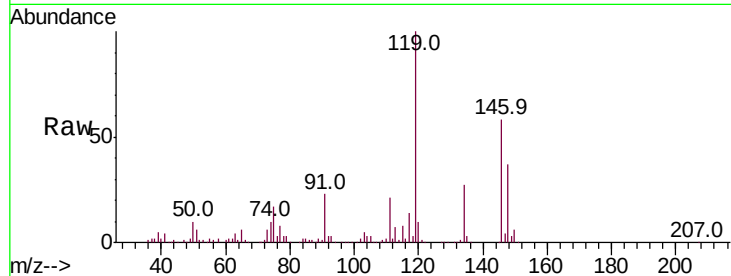
#83
 1,3-Dichlorobenzene
 Concen: 18.483 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.2	54.6
148	64.3	31.9	95.9

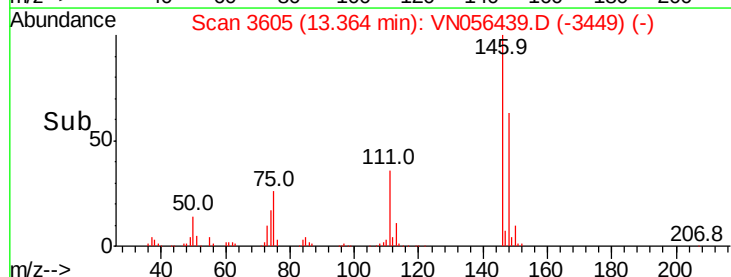
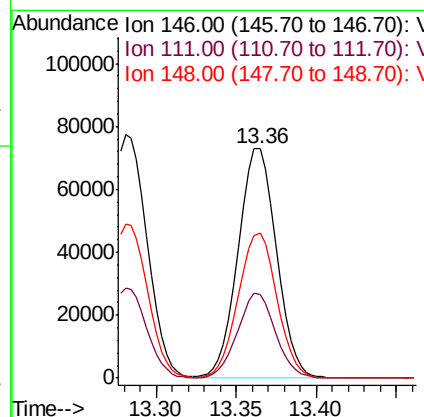
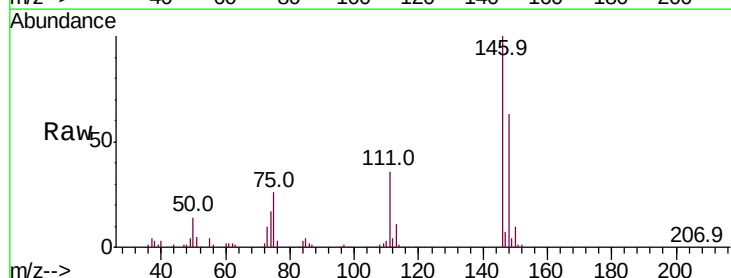
Manual Integrations
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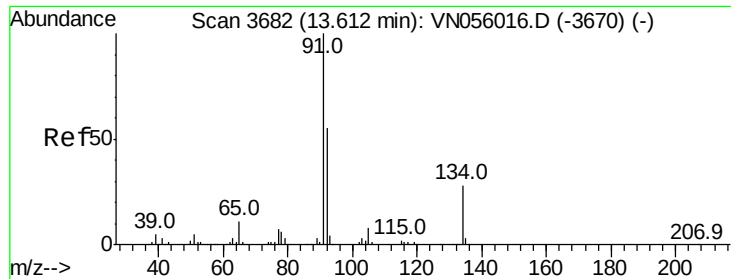
MMDadoda
 6/24/2019 4:16:02 PM



#84
 1,4-Dichlorobenzene
 Concen: 17.951 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.3	17.6	52.9
148	63.6	32.1	96.3





#85

n-Butylbenzene

Concen: 17.437 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Instrument :

MSVOA_N

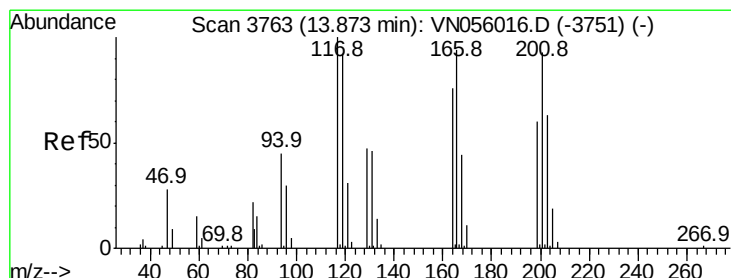
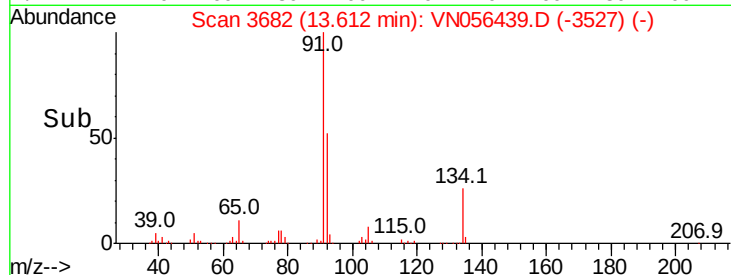
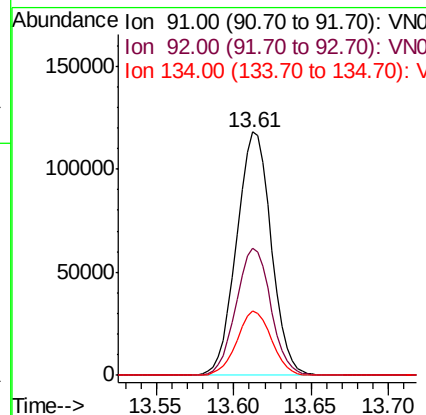
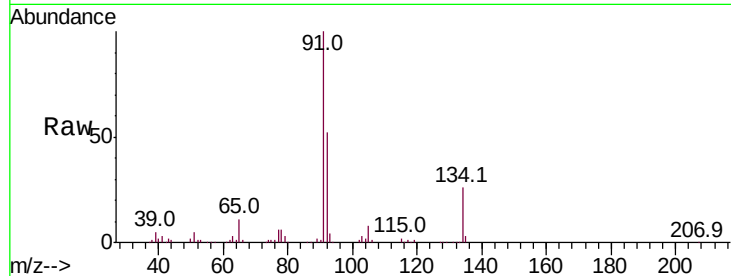
ClientSampleId :

VSTDCCC020EC

Tot Ion:	91	Resp:	183464
Ion Ratio	Lower	Upper	
91	100		
92	52.3	0.0	107.2
134	26.3	0.0	55.8

Manual Integrations
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#86

Hexachloroethane

Concen: 18.828 ug/l

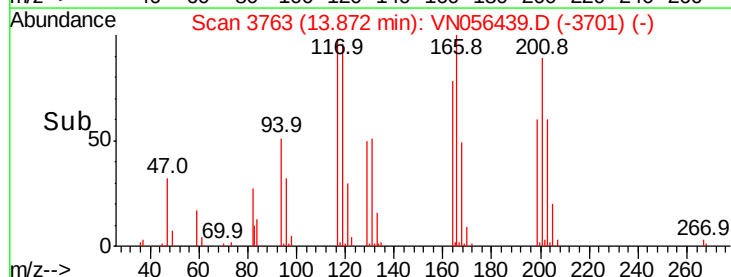
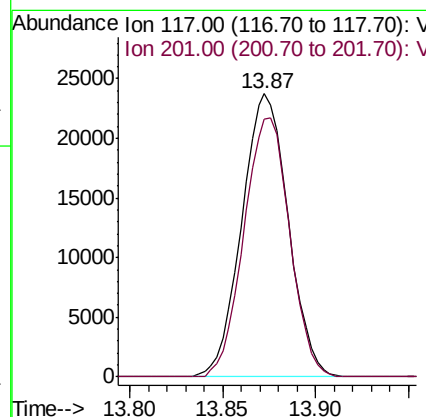
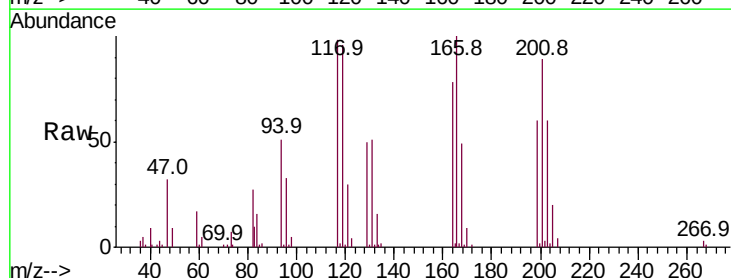
RT: 13.87 min Scan# 3763

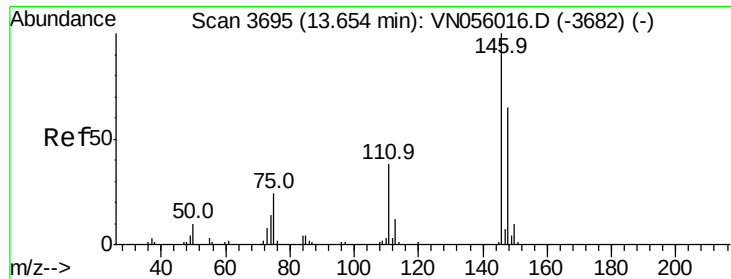
Delta R.T. -0.00 min

Lab File: VN056439.D

Acq: 21 Jun 2019 20:20

Tgt Ion:	117	Resp:	41380
Ion Ratio	Lower	Upper	
117	100		
201	90.0	48.1	144.4





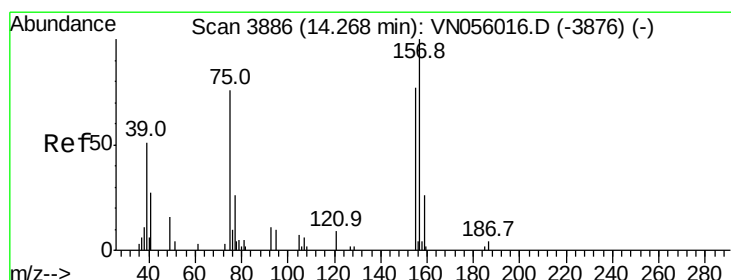
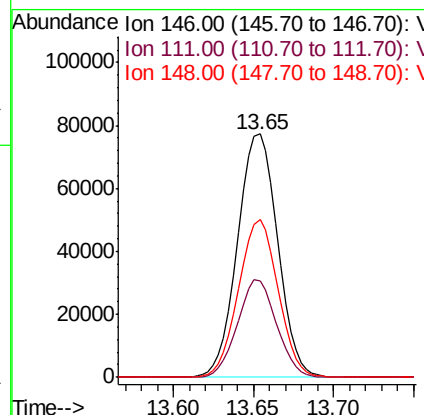
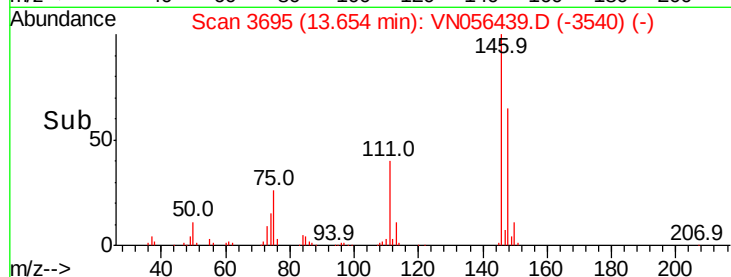
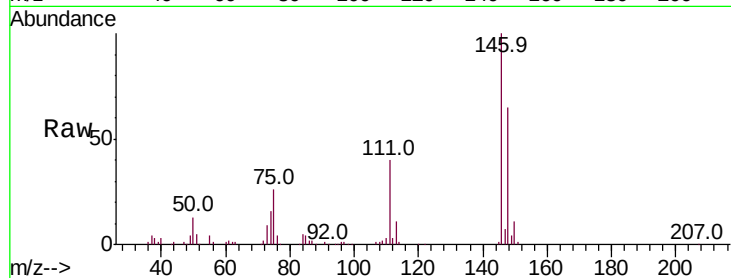
#87
 1,2-Dichlorobenzene
 Concen: 18.577 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.3	57.9
148	64.0	32.6	97.8

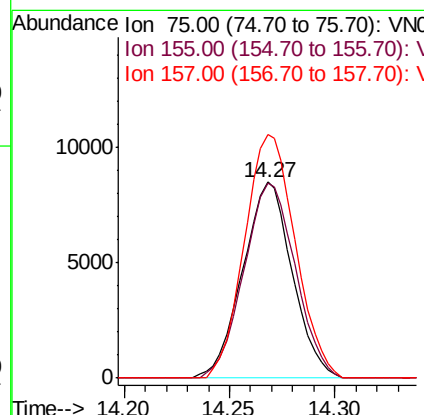
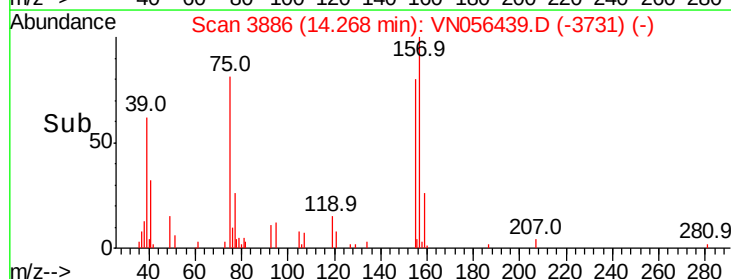
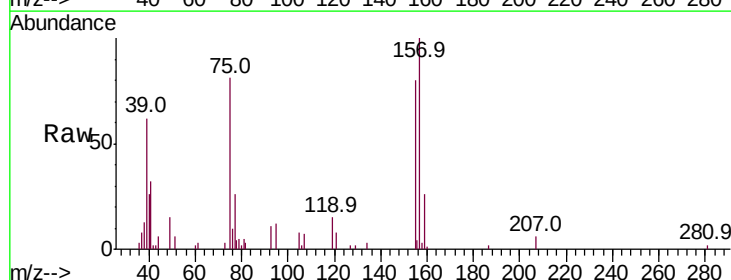
Manual Integrations
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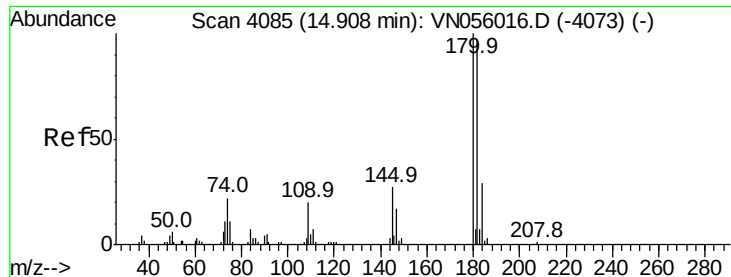
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 17.326 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	103.2	82.5	123.7
157	127.4	105.1	157.7





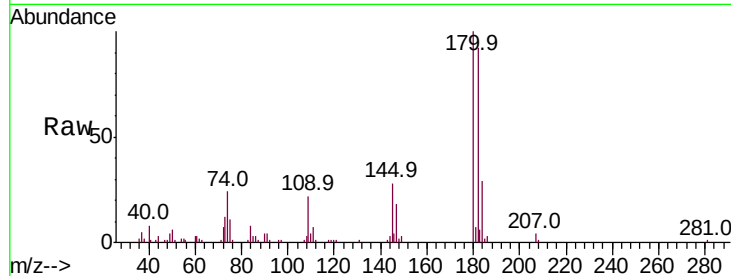
#89
 1,2,4-Trichlorobenzene
 Concen: 18.013 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.2	75.0	112.6
145	27.9	22.1	33.1

Manual Integrations
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 6/24/2019 4:16:02 PM

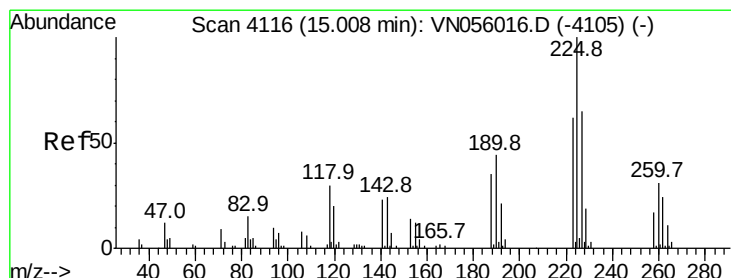
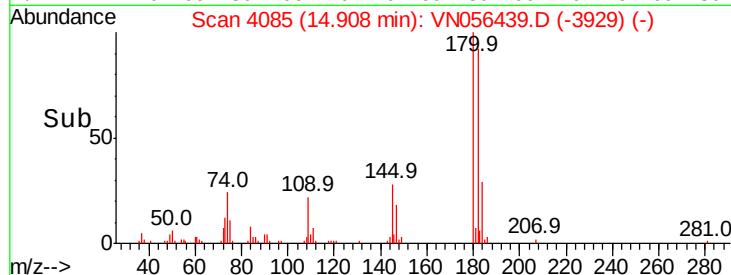
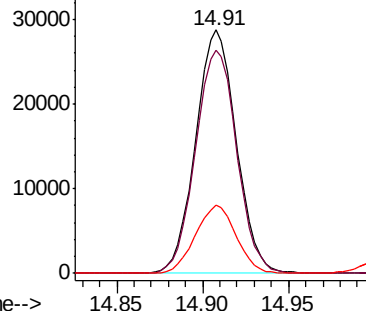


Abundance

Ion 180.00 (179.70 to 180.70): V

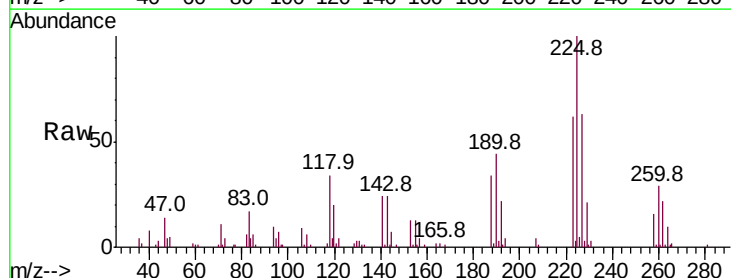
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90
 Hexachlorobutadiene
 Concen: 18.787 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN056439.D
 Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.7	0.0	125.6
227	63.2	0.0	128.6

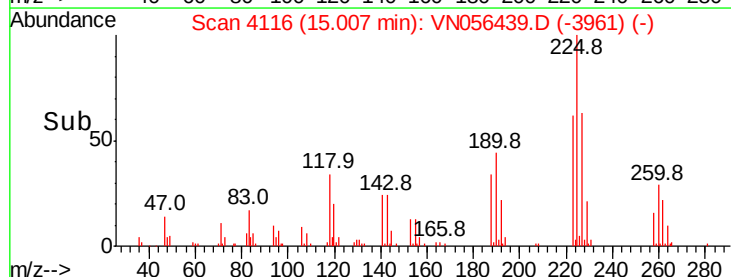
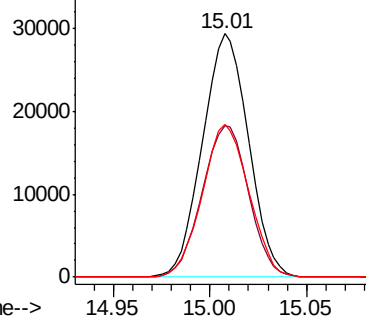


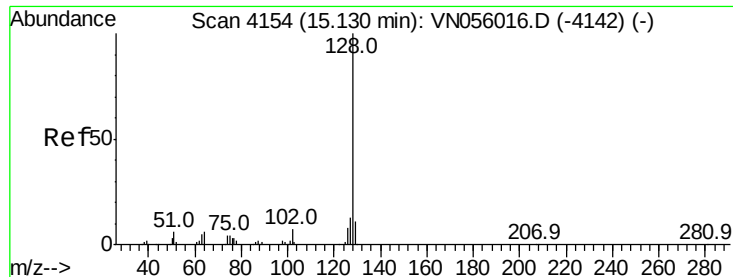
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





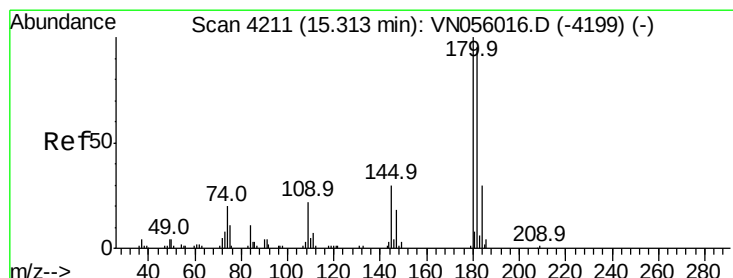
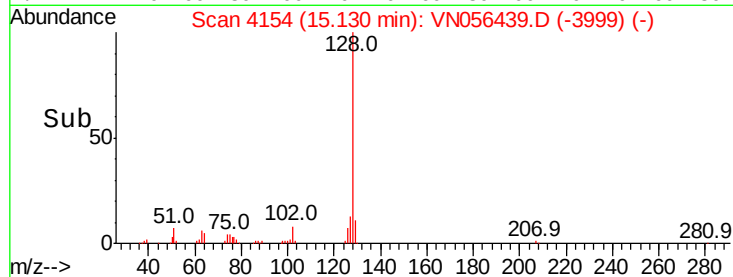
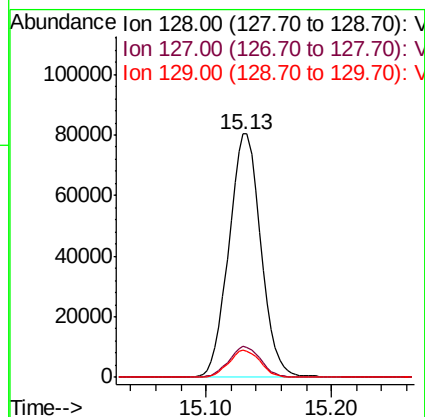
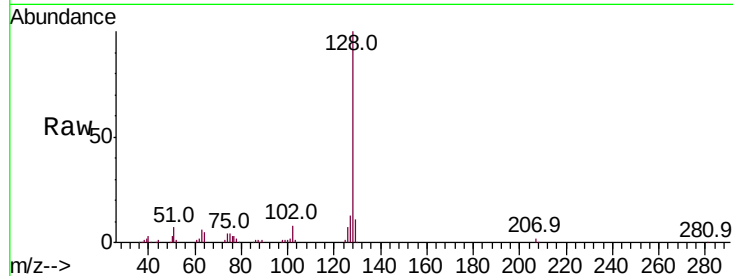
#91
Naphthalene
Concen: 15.046 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
6/24/2019 4:16:02 PM



#92
1,2,3-Trichlorobenzene
Concen: 15.254 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN056439.D
Acq: 21 Jun 2019 20:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	0.0	193.4
145	31.6	0.0	59.8

