

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051319\
 Data File : VN055583.D
 Acq On : 13 May 2019 18:41
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 9:43:12 AM

Quant Time: May 14 03:27:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 06:48:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	726956	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1262358	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1105746	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	465515	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	500499	45.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.46%	
35) Dibromofluoromethane	7.59	113	406753	49.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.90%	
50) Toluene-d8	10.09	98	1580682	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
62) 4-Bromofluorobenzene	12.40	95	550951	51.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	311126	42.037	ug/l	99
3) Chloromethane	2.06	50	494063	41.090	ug/l	97
4) Vinyl Chloride	2.18	62	503180	44.332	ug/l	99
5) Bromomethane	2.53	94	281483	45.263	ug/l	98
6) Chloroethane	2.68	64	305338	46.184	ug/l	95
7) Trichlorofluoromethane	3.01	101	577289	46.362	ug/l	99
8) Diethyl Ether	3.41	74	270132	48.305	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.75	101	371718	46.921	ug/l	98
10) Methyl Iodide	3.94	142	500063	46.702	ug/l	98
11) Tert butyl alcohol	4.81	59	364721	225.677	ug/l #	89
12) 1,1-Dichloroethene	3.72	96	388026	48.838	ug/l	95
13) Acrolein	3.60	56	273190	253.638	ug/l	98
14) Allyl chloride	4.31	41	750282	46.099	ug/l	97
15) Acrylonitrile	4.99	53	1129826	225.772	ug/l	100
16) Acetone	3.82	43	940377	185.548	ug/l	99
17) Carbon Disulfide	4.04	76	962250	44.374	ug/l	100
18) Methyl Acetate	4.33	43	494709	46.437	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	1280387	48.499	ug/l	97
20) Methylene Chloride	4.54	84	467007	45.063	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	412809	47.922	ug/l	95
22) Diisopropyl ether	5.96	45	1585375	47.935	ug/l	99
23) Vinyl Acetate	5.90	43	6072702	237.422	ug/l	99
24) 1,1-Dichloroethane	5.84	63	839655	47.030	ug/l	100
25) 2-Butanone	6.84	43	1501186	214.425	ug/l	97
26) 2,2-Dichloropropane	6.82	77	541038	48.612	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	489923	49.211	ug/l	98
28) Bromochloromethane	7.19	49	422230	45.539	ug/l	93
29) Tetrahydrofuran	7.21	42	995877	215.175	ug/l	98
30) Chloroform	7.37	83	787531	47.715	ug/l	99
31) Cyclohexane	7.65	56	760514	43.053	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	610437	48.568	ug/l	99
36) 1,1-Dichloropropene	7.79	75	601003	48.326	ug/l	98
37) Ethyl Acetate	6.93	43	594363	43.812	ug/l	98
38) Carbon Tetrachloride	7.77	117	496151	47.379	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	677914	44.708	ug/l	97
40) Benzene	8.04	78	1856821	48.107	ug/l	99
41) Methacrylonitrile	7.17	41	273980m	43.513	ug/l	
42) 1,2-Dichloroethane	8.12	62	615277	45.373	ug/l	99
43) Isopropyl Acetate	8.17	43	954841	46.329	ug/l	96
44) Trichloroethene	8.83	130	448357	48.820	ug/l	98
45) 1,2-Dichloropropane	9.12	63	524629	47.505	ug/l	99
46) Dibromomethane	9.21	93	304037	47.496	ug/l	96
47) Bromodichloromethane	9.40	83	597802	48.816	ug/l	100
48) Methyl methacrylate	9.20	41	451620	45.480	ug/l	96
49) 1,4-Dioxane	9.20	88	180171	930.919	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	3031025	223.610	ug/l	97
52) Toluene	10.16	92	1093059	49.536	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	618744	52.607	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	738721	52.562	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	436099	48.778	ug/l	99
56) Ethyl methacrylate	10.43	69	666337	50.107	ug/l	96
57) 1,3-Dichloropropane	10.71	76	779790	49.129	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	936418	211.222	ug/l	99
59) 2-Hexanone	10.75	43	2085699	219.406	ug/l	99
60) Dibromochloromethane	10.90	129	424758	52.255	ug/l	100
61) 1,2-Dibromoethane	11.00	107	432387	50.336	ug/l	99
64) Tetrachloroethene	10.63	164	409352	45.180	ug/l	99
65) Chlorobenzene	11.43	112	1144780	50.322	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	401348	51.246	ug/l	98
67) Ethyl Benzene	11.51	91	2090126	48.919	ug/l	99
68) m/p-Xylenes	11.62	106	1537679	100.284	ug/l	99
69) o-Xylene	11.95	106	759598	50.402	ug/l	99
70) Styrene	11.96	104	1286594	53.286	ug/l	99
71) Bromoform	12.13	173	284615	53.854	ug/l	100
73) Isopropylbenzene	12.25	105	1992697	52.015	ug/l	100
74) N-amyl acetate	12.07	43	797600	45.130	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	624242	50.019	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	546670m	43.137	ug/l	
77) Bromobenzene	12.53	156	477907	46.584	ug/l	93
78) n-propylbenzene	12.59	91	2268605	45.436	ug/l	99
79) 2-Chlorotoluene	12.67	91	1378834	44.312	ug/l	97
80) 1,3,5-Trimethylbenzene	12.73	105	1679876	45.122	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	155392	45.244	ug/l	97
82) 4-Chlorotoluene	12.77	91	1362531	46.341	ug/l	99
83) tert-Butylbenzene	12.99	119	1402478	43.949	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1632729	47.818	ug/l	99
85) sec-Butylbenzene	13.17	105	1844994	43.503	ug/l	99
86) p-Isopropyltoluene	13.29	119	1596874	46.265	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	781951	49.327	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	759045	48.518	ug/l	99
89) n-Butylbenzene	13.61	91	1249121	46.689	ug/l	99
90) Hexachloroethane	13.87	117	251573	44.681	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	777765	49.090	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	96388	45.028	ug/l	95

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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	312674	45.625	ug/l	98
94) Hexachlorobutadiene	15.01	225	217900	46.302	ug/l	99
95) Naphthalene	15.13	128	884106	45.812	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	344310	46.281	ug/l	99

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

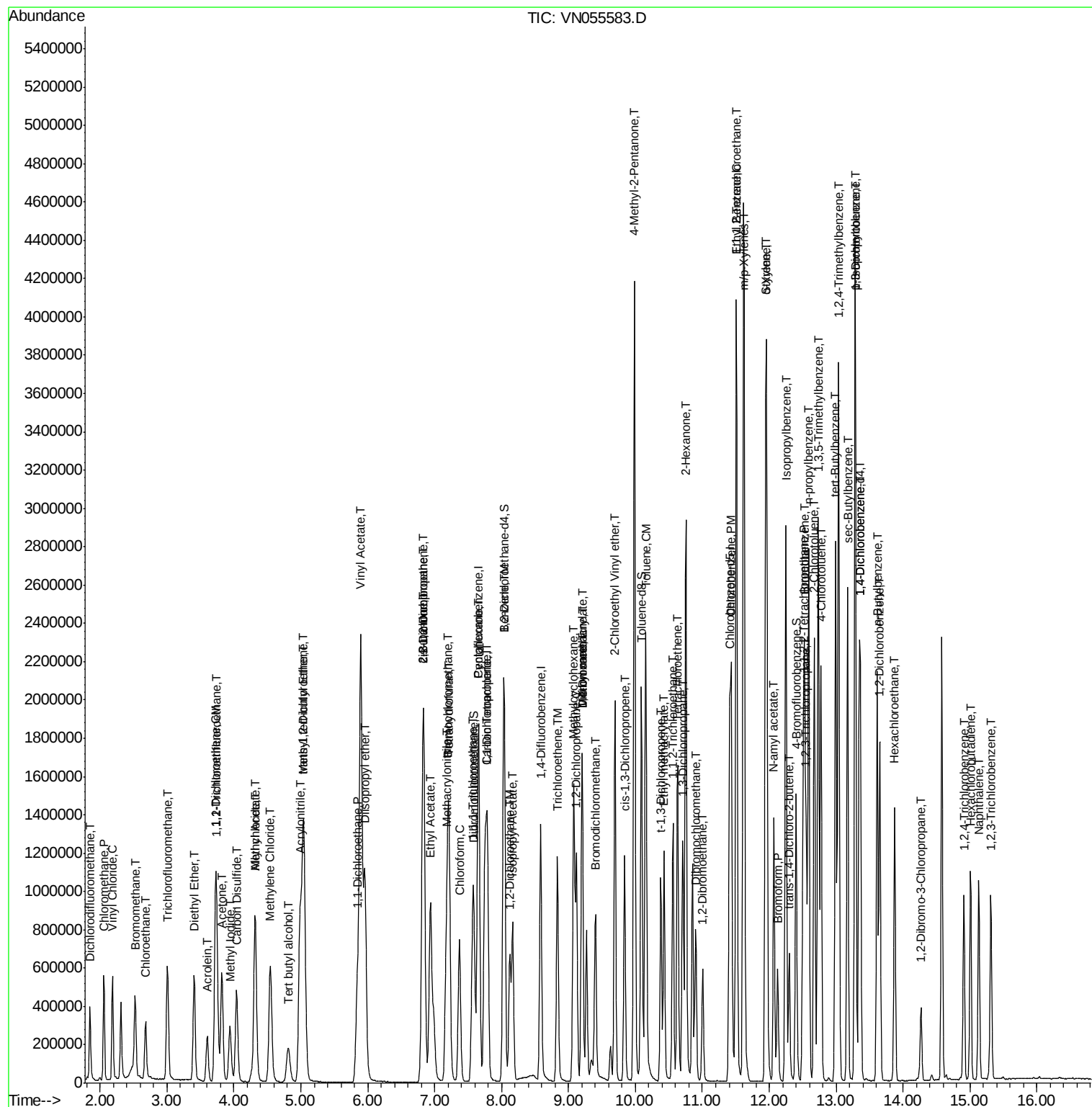
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Data File : VN055583.D
Acq On : 13 May 2019 18:41
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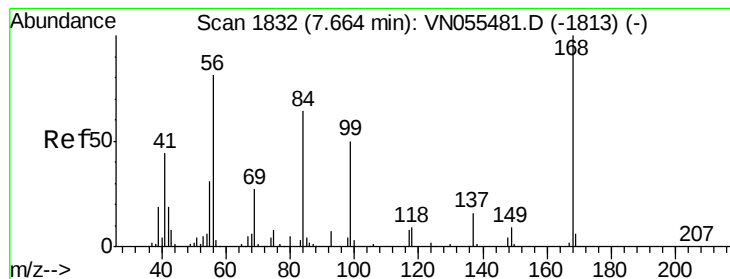
Instrument :
MSVOA_N
Client Sample Id :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 726956

Ion Ratio Lower Upper

168 100

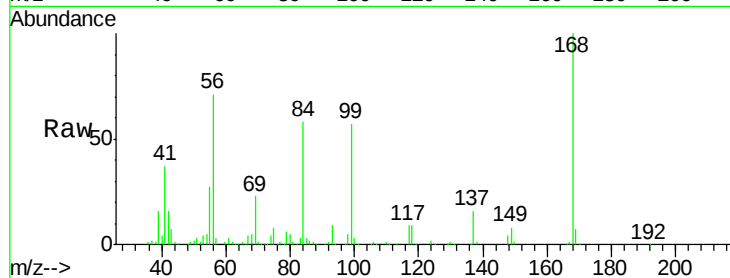
99 56.2 47.0 70.4

Manual Integrations

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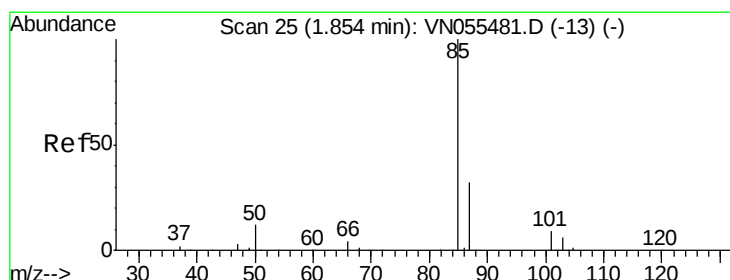
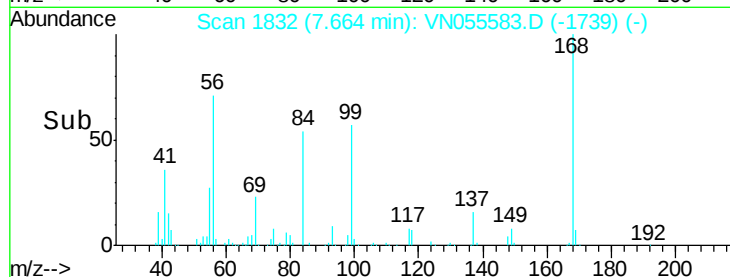
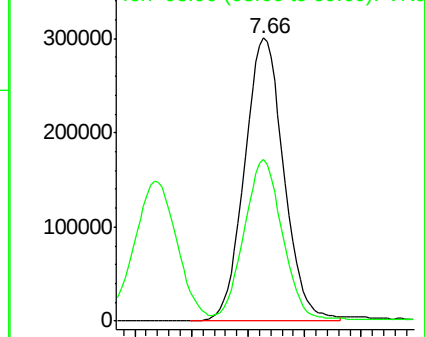
MMDadoda

5/14/2019 9:43:12 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 42.037 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.01 min

Lab File: VN055583.D

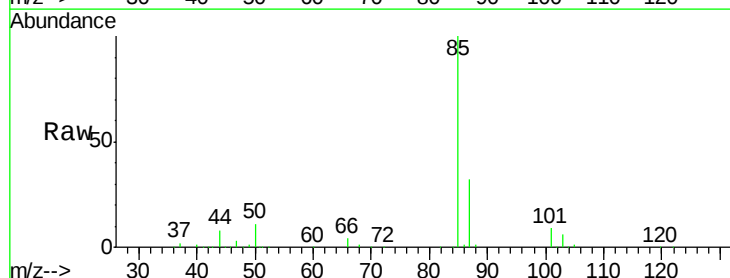
Acq: 13 May 2019 18:41

Tgt Ion: 85 Resp: 311126

Ion Ratio Lower Upper

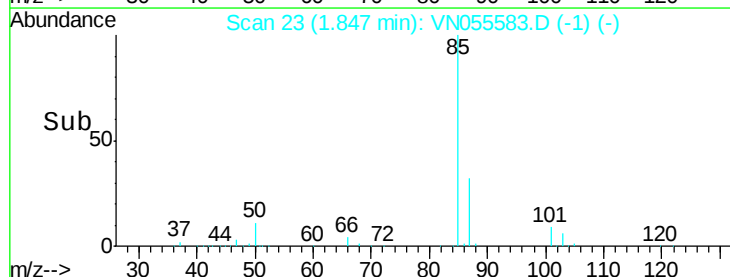
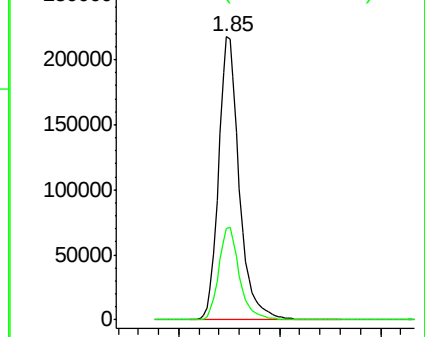
85 100

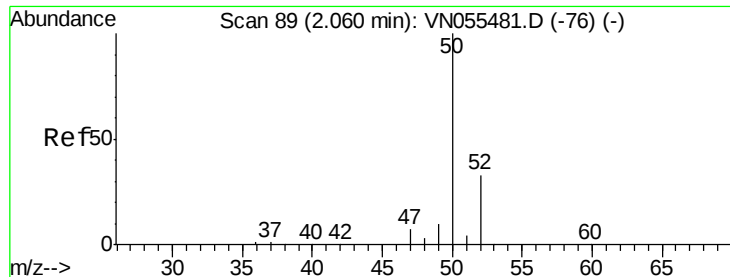
87 32.4 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 41.090 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 494063

Ion Ratio Lower Upper

50 100

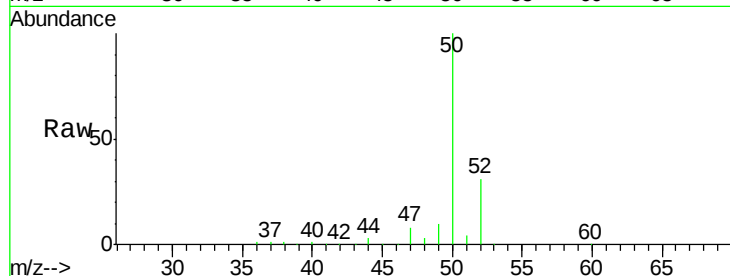
52 31.4 26.6 39.8

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

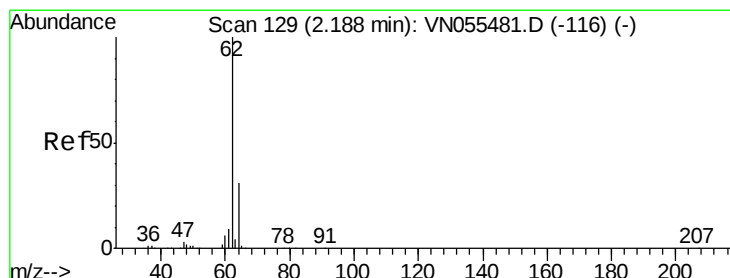
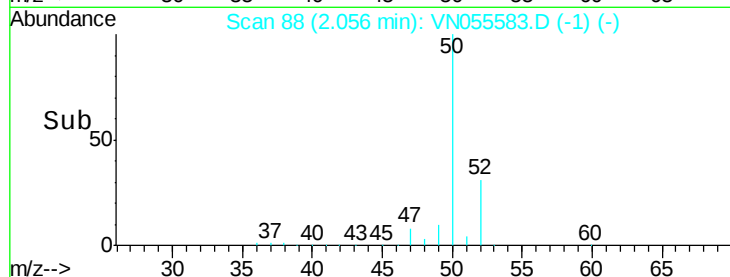
300000

200000

100000

0

Time--> 1.95 2.00 2.05 2.10 2.15



#4

Vinyl Chloride

Concen: 44.332 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN055583.D

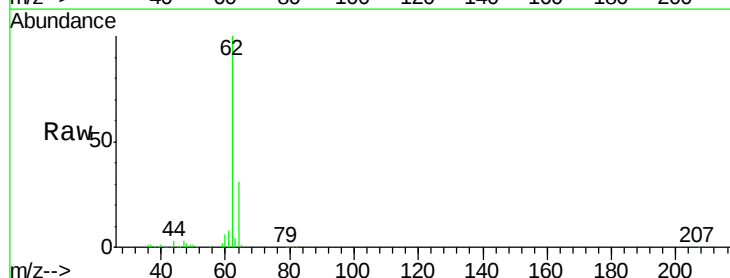
Acq: 13 May 2019 18:41

Tgt Ion: 62 Resp: 503180

Ion Ratio Lower Upper

62 100

64 30.9 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.18

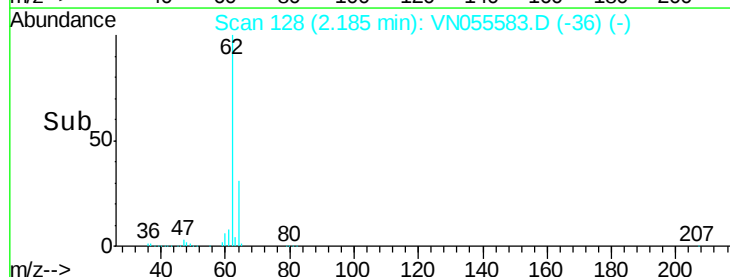
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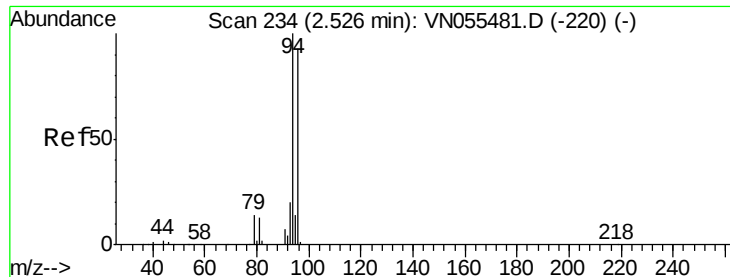
200000

100000

0

Time--> 2.10 2.20 2.30





#5

Bromomethane

Concen: 45.263 ug/l

RT: 2.53 min Scan# 234

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

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Tot Ion: 94 Resp: 281483

Ion Ratio Lower Upper

94 100

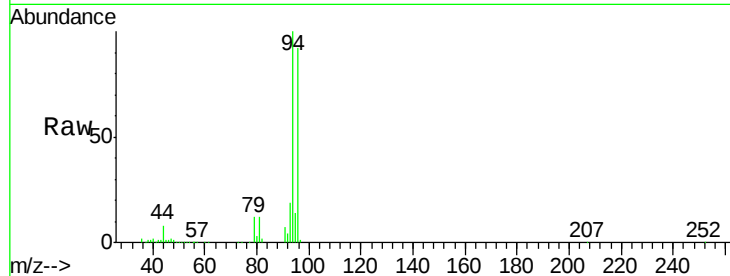
96 91.8 74.8 112.2

Manual Integrations

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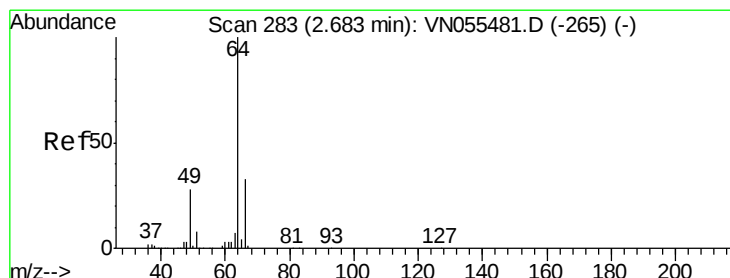
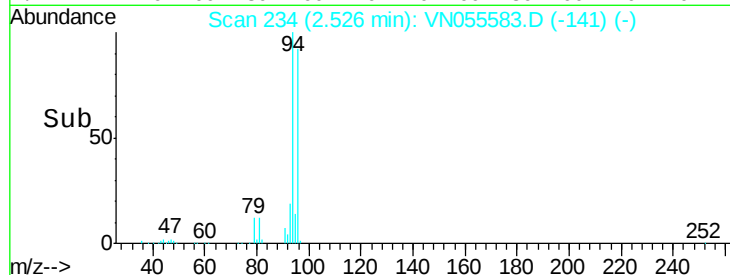
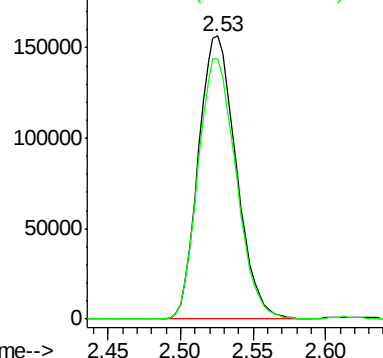
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 46.184 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.00 min

Lab File: VN055583.D

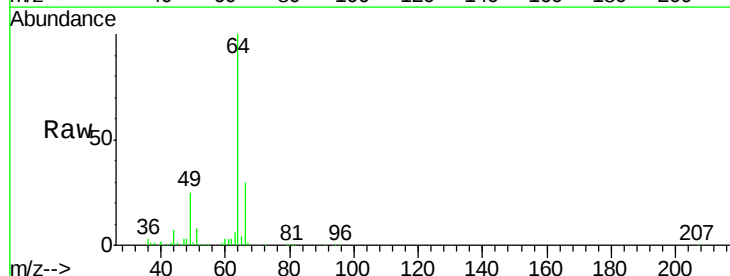
Acq: 13 May 2019 18:41

Tgt Ion: 64 Resp: 305338

Ion Ratio Lower Upper

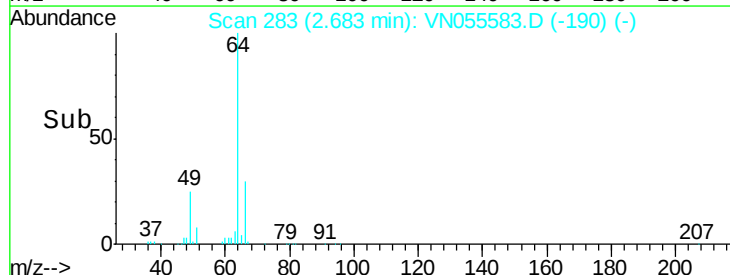
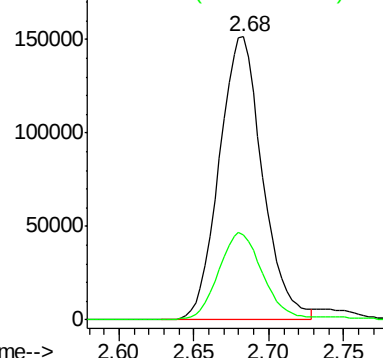
64 100

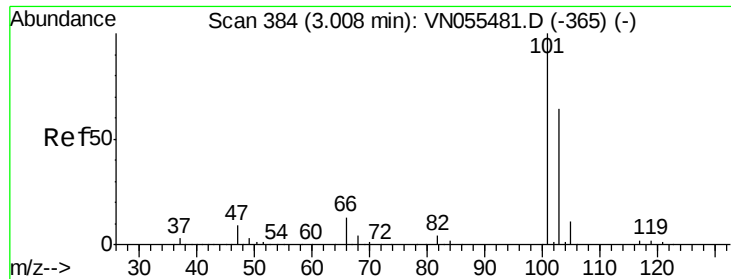
66 30.1 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

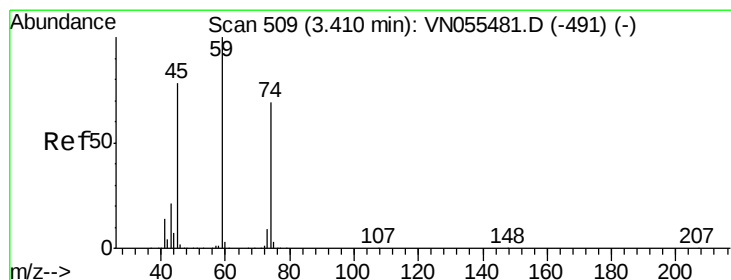
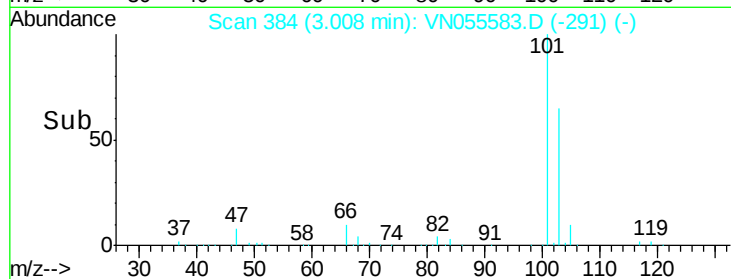
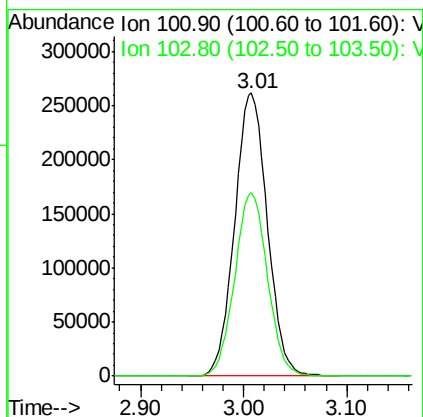
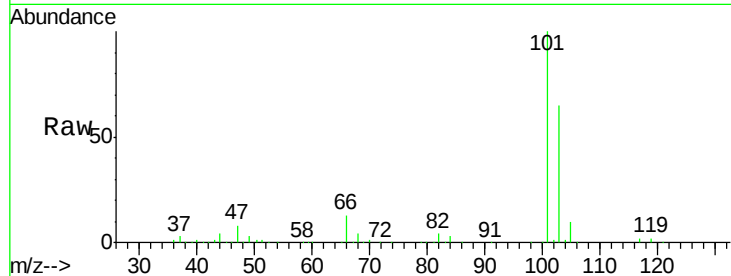
Trichlorofluoromethane
Concen: 46.362 ug/l
RT: 3.01 min Scan# 384
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
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ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.2	76.8

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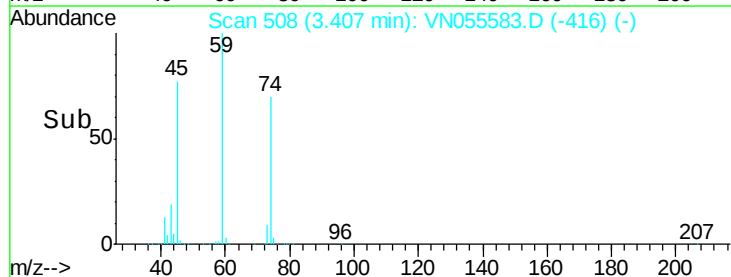
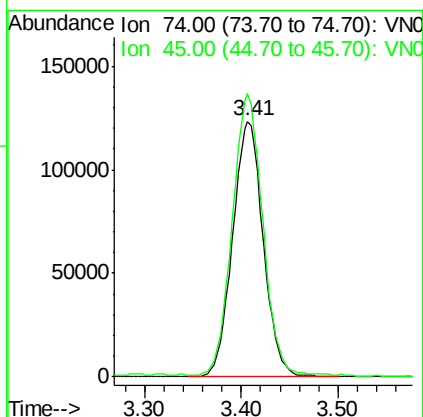
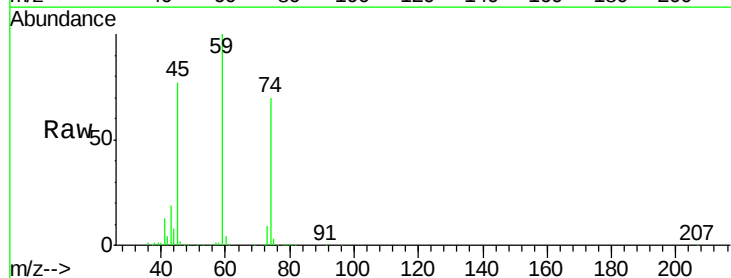
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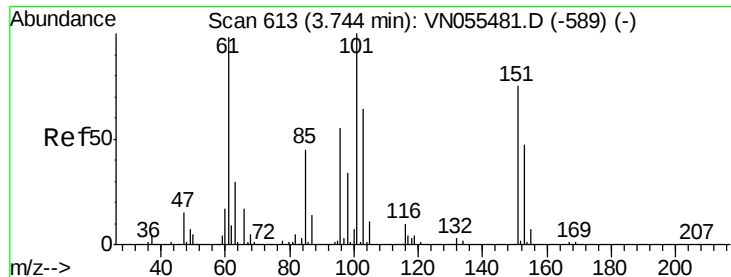


#8

Diethyl Ether
Concen: 48.305 ug/l
RT: 3.41 min Scan# 508
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
74	100		
45	109.8	58.1	174.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.921 ug/l

RT: 3.75 min Scan# 614

Delta R.T. 0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

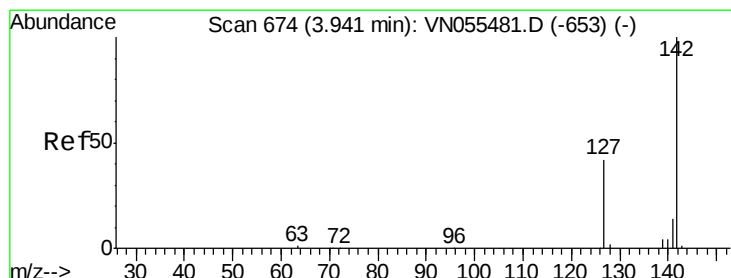
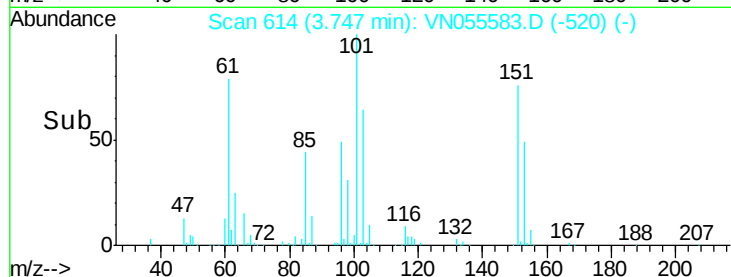
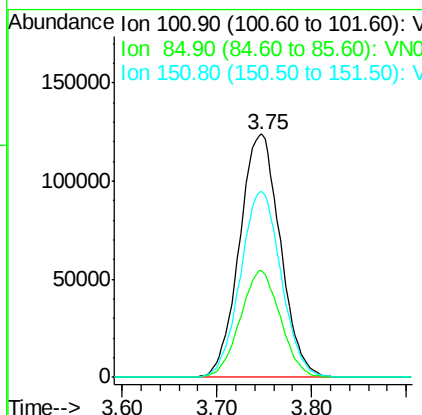
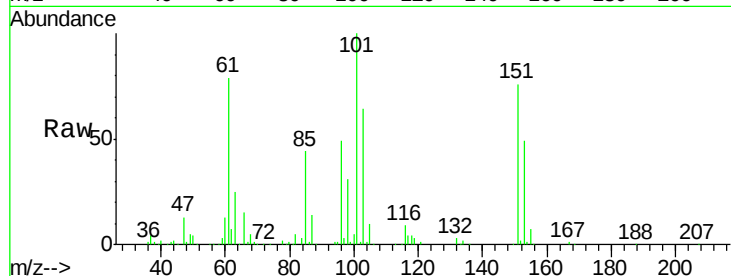
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	371718
Ion Ratio	Lower	Upper	
101	100		
85	43.2	35.5	53.3
151	76.4	59.2	88.8

Manual Integrations
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5/14/2019 9:43:12 AM



#10

Methyl Iodide

Concen: 46.702 ug/l

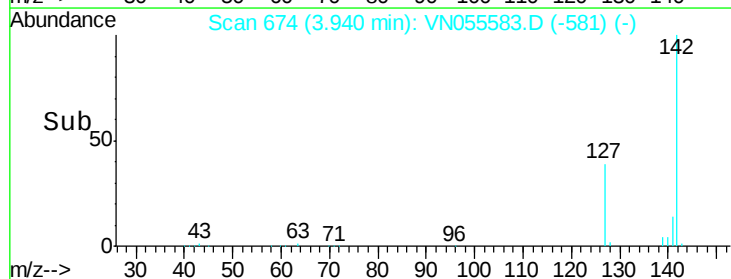
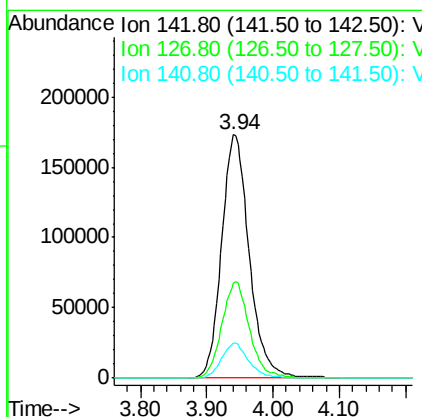
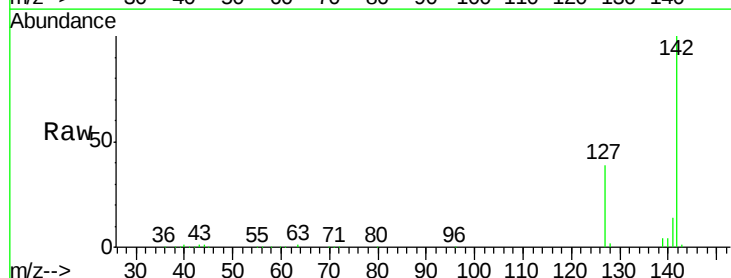
RT: 3.94 min Scan# 674

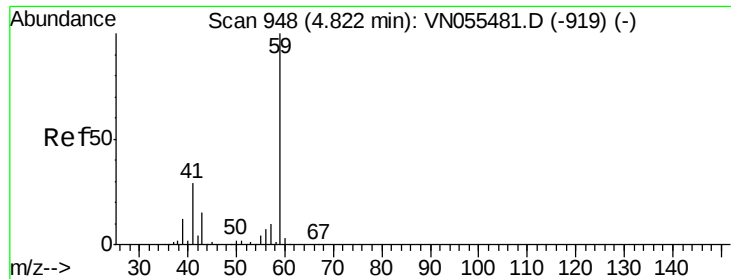
Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion:	142	Resp:	500063
Ion Ratio	Lower	Upper	
142	100		
127	39.5	33.0	49.4
141	14.0	11.4	17.0





#11

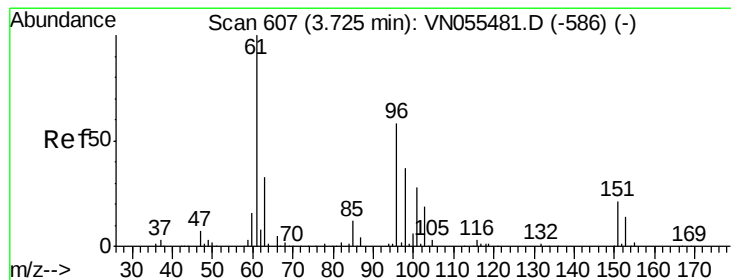
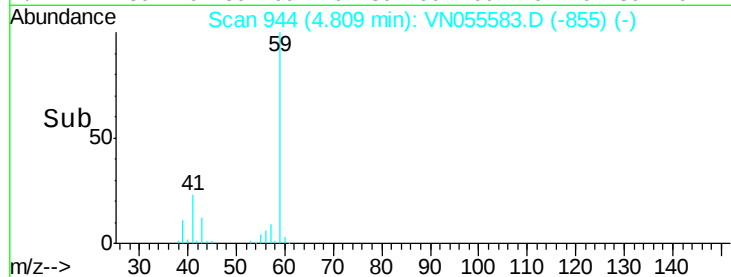
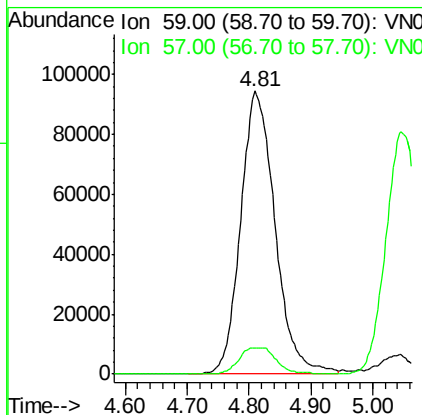
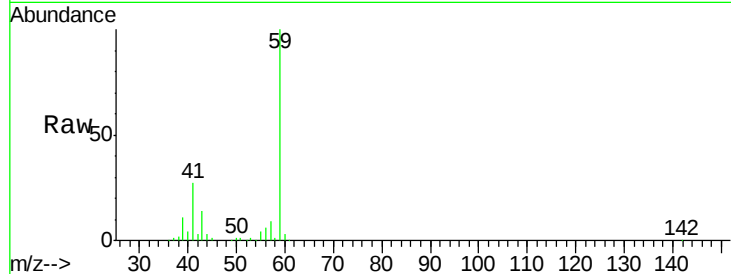
Tert butyl alcohol
Concen: 225.677 ug/l
RT: 4.81 min Scan# 944
Delta R.T. -0.01 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.8	8.0	12.0#

Manual Integrations
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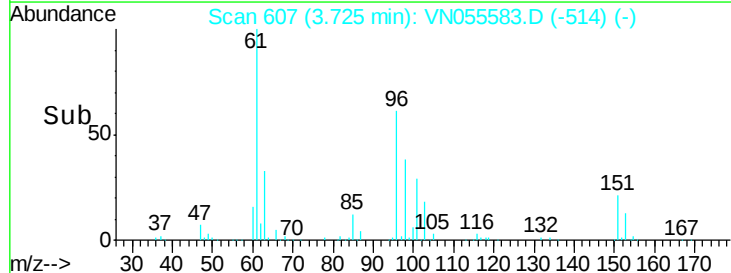
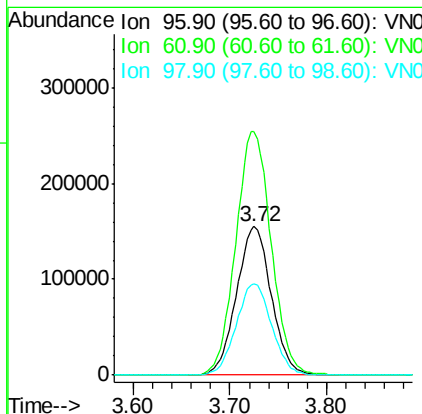
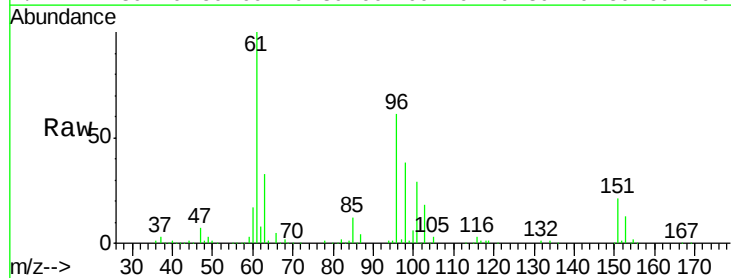
MMDadoda
5/14/2019 9:43:12 AM

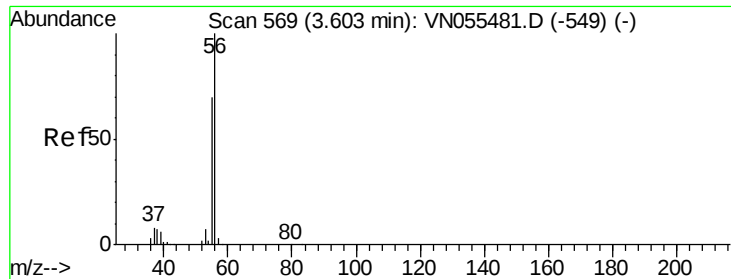


#12

1,1-Dichloroethene
Concen: 48.838 ug/l
RT: 3.72 min Scan# 607
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	164.2	138.7	208.1
98	61.9	50.6	76.0





#13

Acrolein

Concen: 253.638 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 273190

Ion Ratio Lower Upper

56 100

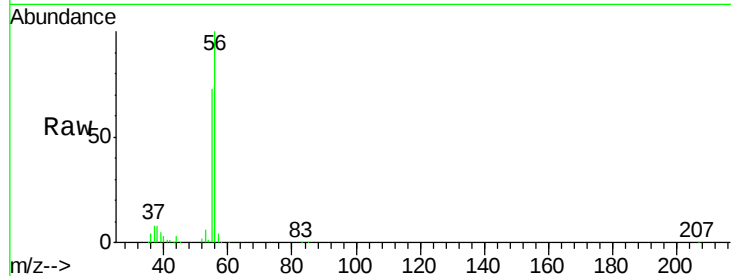
55 70.8 57.7 86.5

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

120000

100000

80000

60000

40000

20000

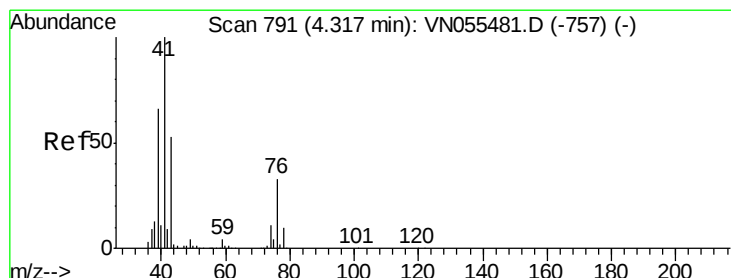
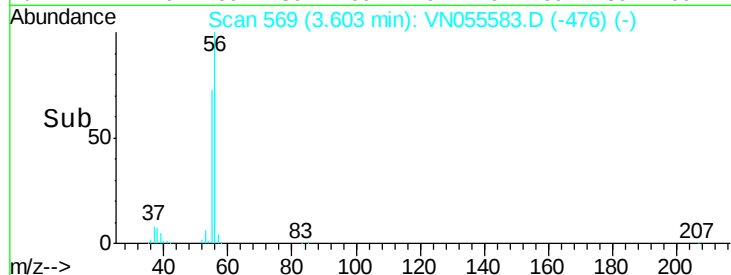
0

3.50

3.60

3.70

Time-->



#14

Allyl chloride

Concen: 46.099 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

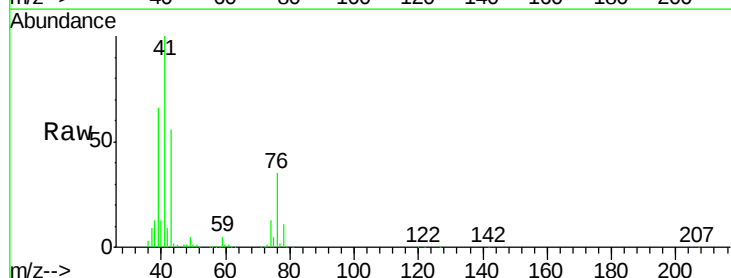
Tgt Ion: 41 Resp: 750282

Ion Ratio Lower Upper

41 100

39 60.6 49.8 74.8

76 31.2 23.5 35.3



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

500000

400000

300000

200000

100000

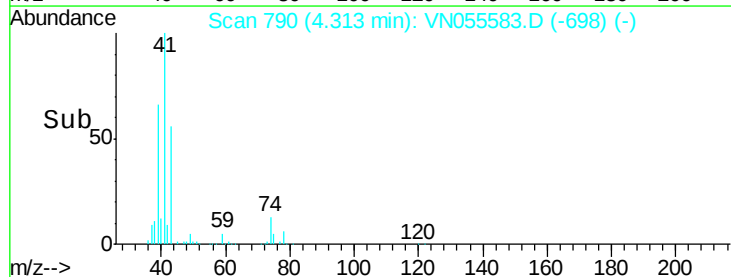
0

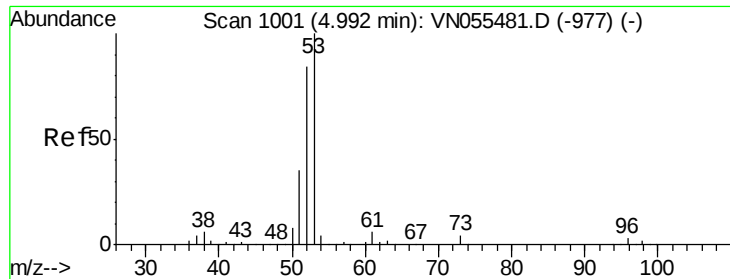
4.20

4.31

4.40

Time-->





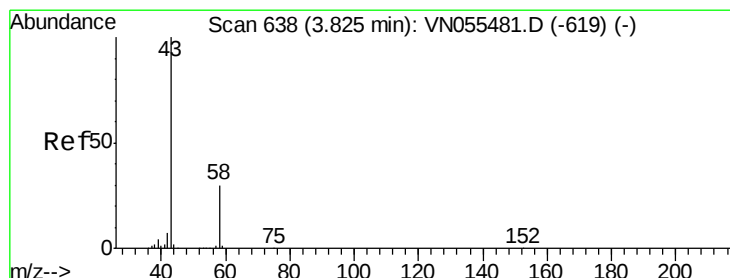
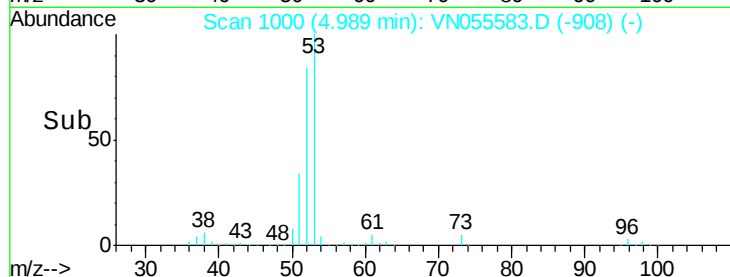
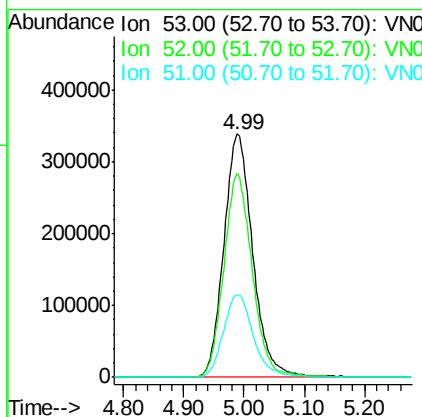
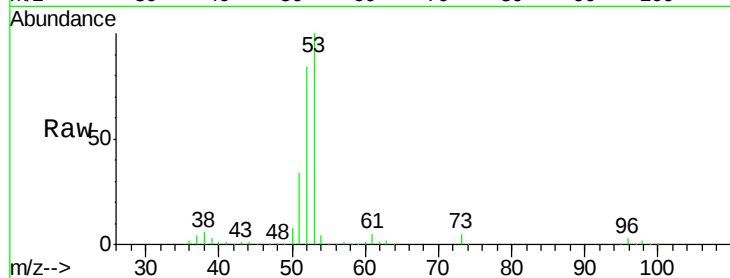
#15
 Acrylonitrile
 Concen: 225.772 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.1	99.1
51	35.3	28.3	42.5

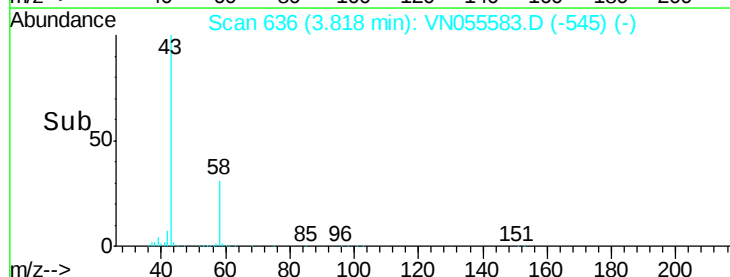
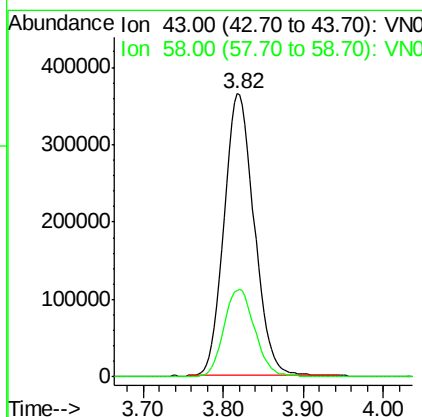
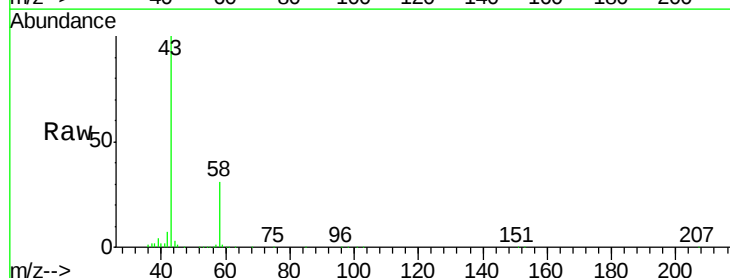
Manual Integrations
 APPROVED

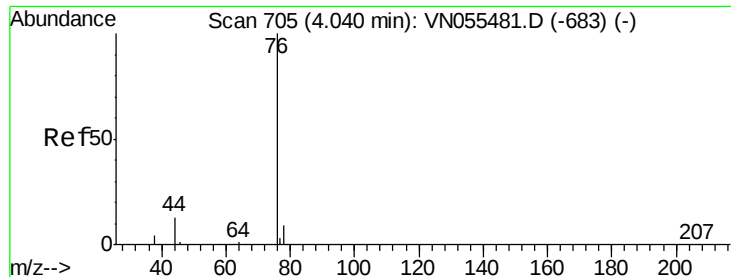
MMDadoda
 5/14/2019 9:43:12 AM



#16
 Acetone
 Concen: 185.548 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. -0.01 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.2	36.2





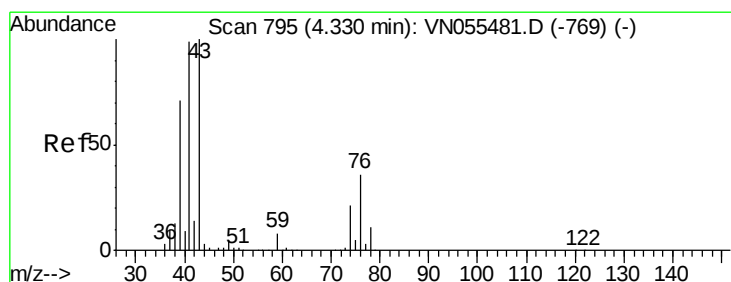
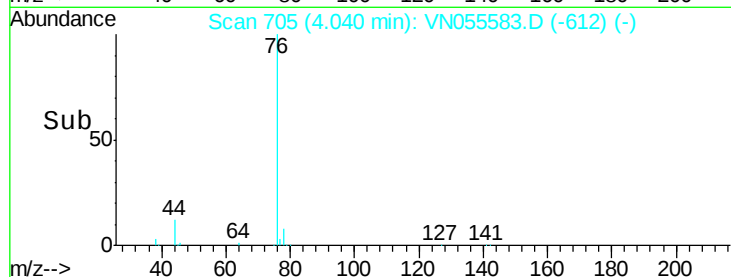
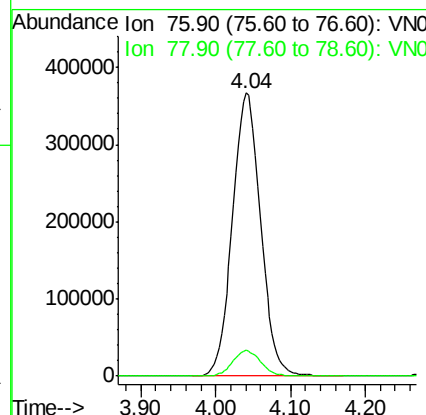
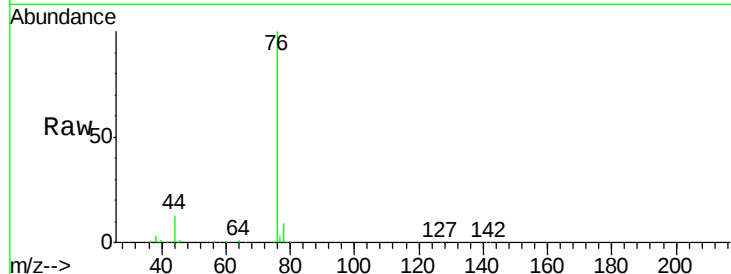
#17
Carbon Disulfide
Concen: 44.374 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

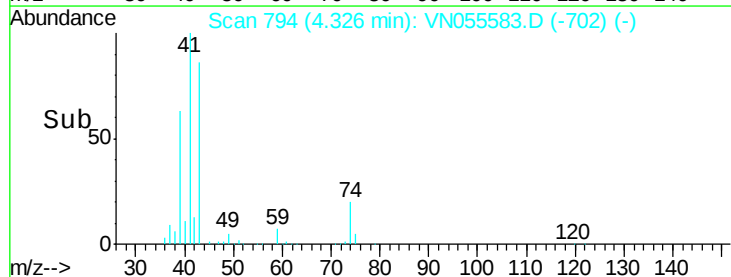
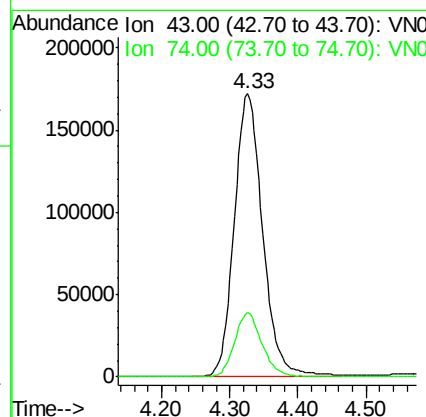
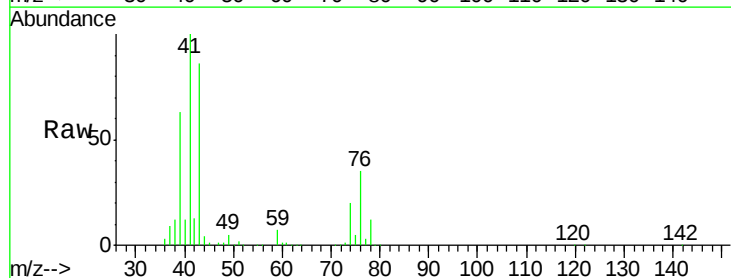
Manual Integrations
APPROVED

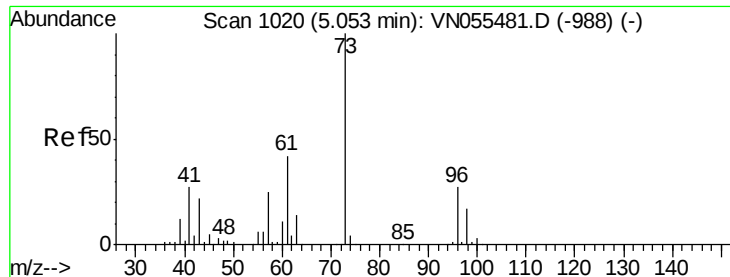
MMDadoda
5/14/2019 9:43:12 AM



#18
Methyl Acetate
Concen: 46.437 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.0	16.3	24.5





#19

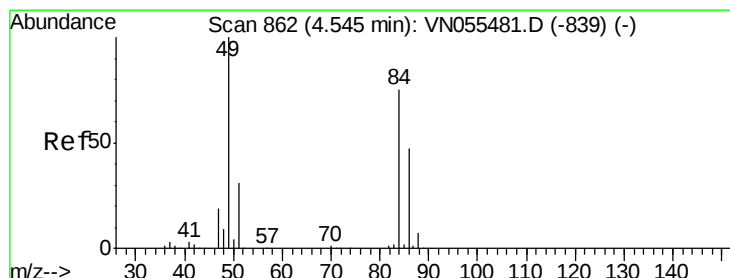
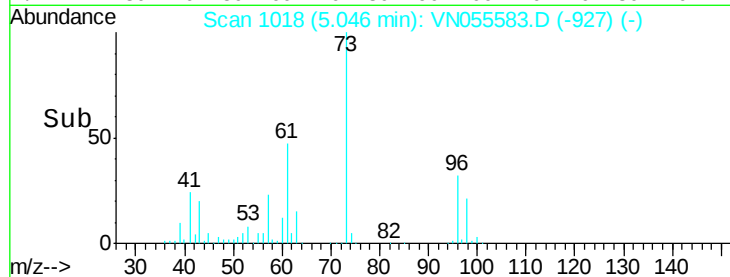
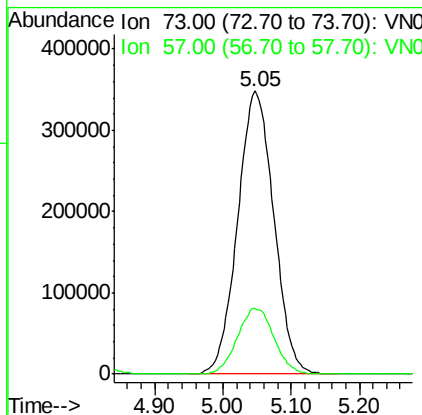
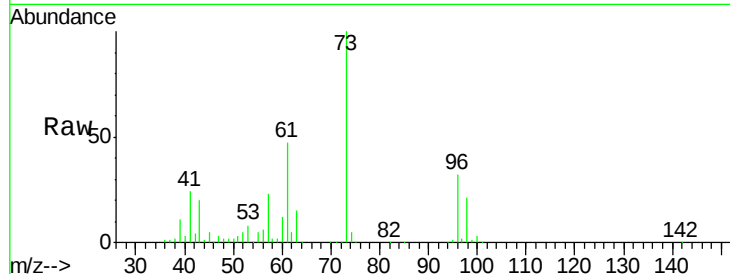
Methyl tert-butyl Ether
 Concen: 48.499 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 73 Resp: 1280387
 Ion Ratio Lower Upper
 73 100
 57 23.2 20.0 30.0

Manual Integrations
 APPROVED

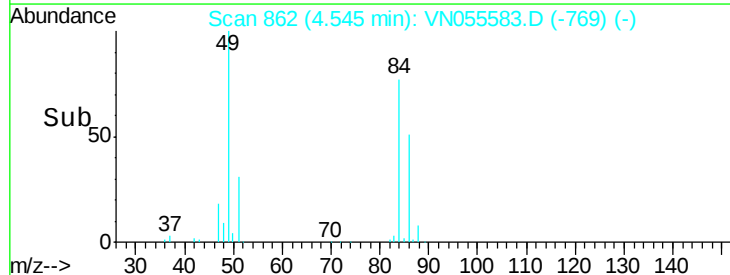
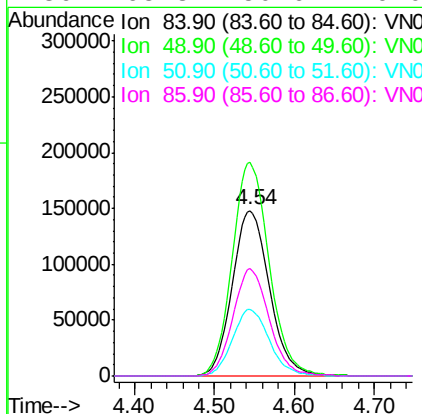
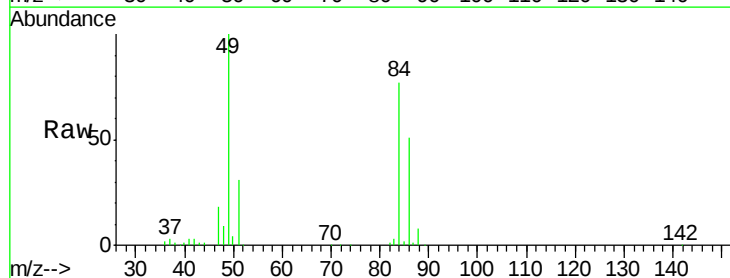
MMDadoda
 5/14/2019 9:43:12 AM

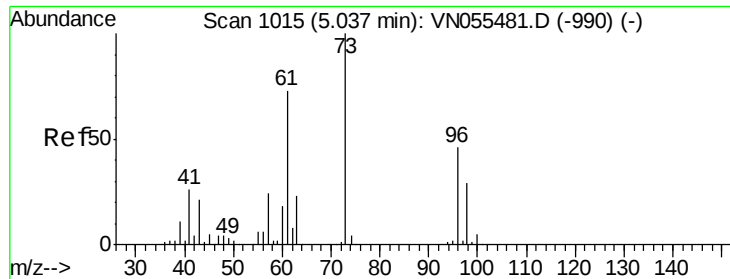


#20

Methylene Chloride
 Concen: 45.063 ug/l
 RT: 4.54 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Tgt Ion: 84 Resp: 467007
 Ion Ratio Lower Upper
 84 100
 49 129.3 107.0 160.6
 51 40.6 33.0 49.4
 86 65.3 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 47.922 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

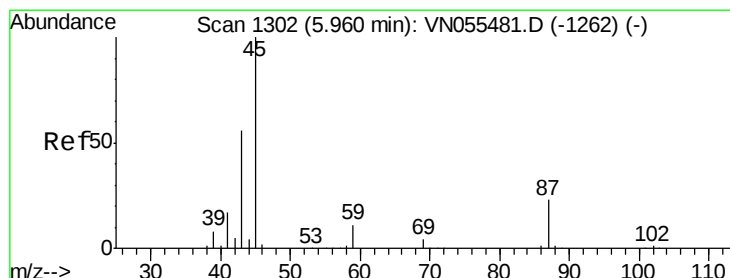
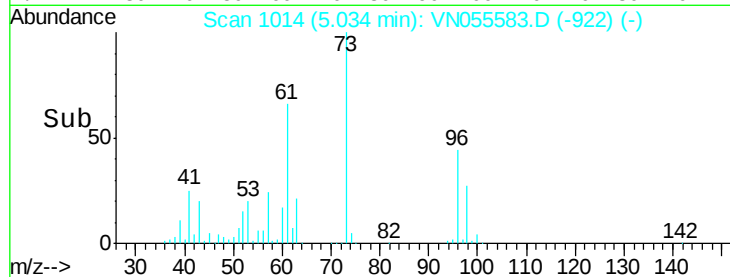
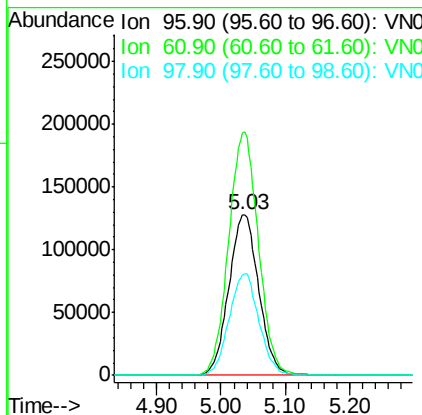
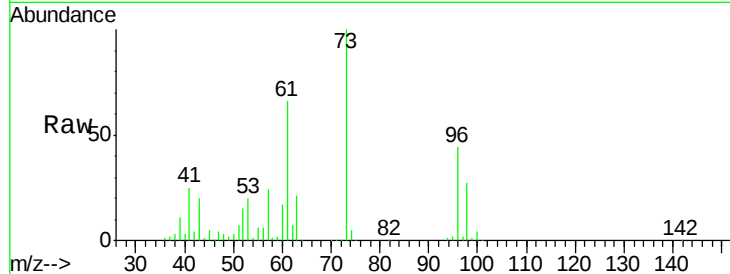
ClientSampled :

VSTDCCC050EC

Tot Ion:	96	Resp:	412809
Ion	Ratio	Lower	Upper
96	100		
61	150.8	127.4	191.0
98	62.2	51.6	77.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 47.935 ug/l

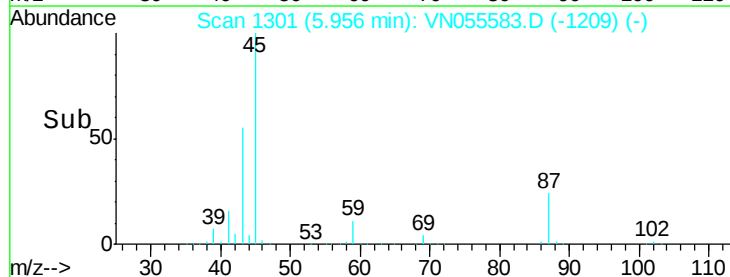
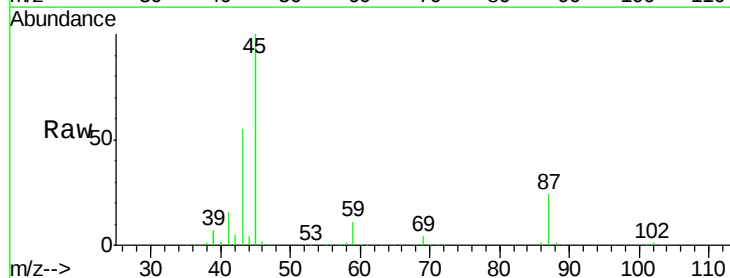
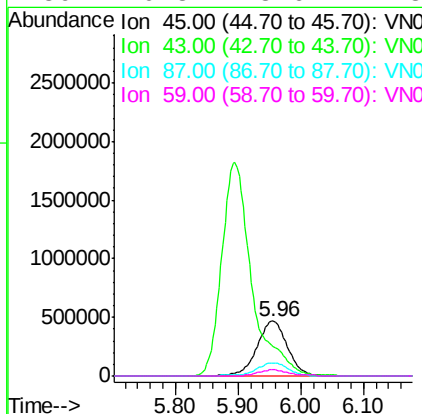
RT: 5.96 min Scan# 1301

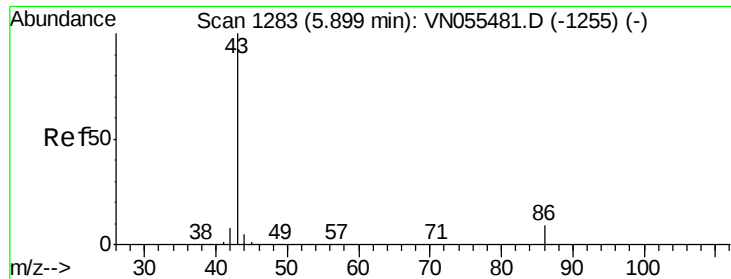
Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion:	45	Resp:	1585375
Ion	Ratio	Lower	Upper
45	100		
43	54.8	44.6	66.8
87	24.0	18.6	28.0
59	10.8	8.6	12.8





#23

Vinyl Acetate

Concen: 237.422 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 6072702

Ion Ratio Lower Upper

43 100

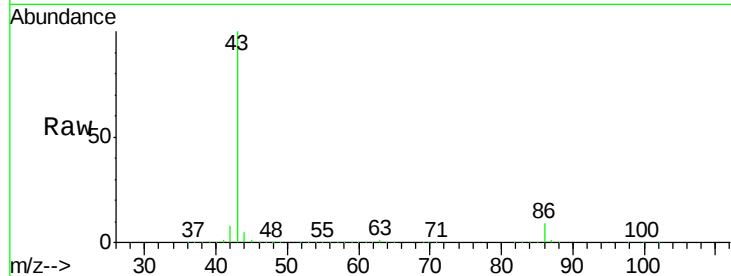
86 9.4 7.1 10.7

Manual Integrations

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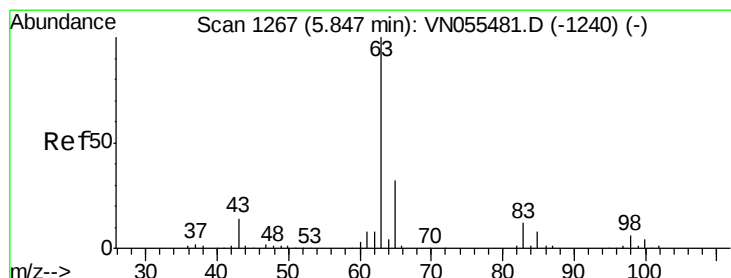
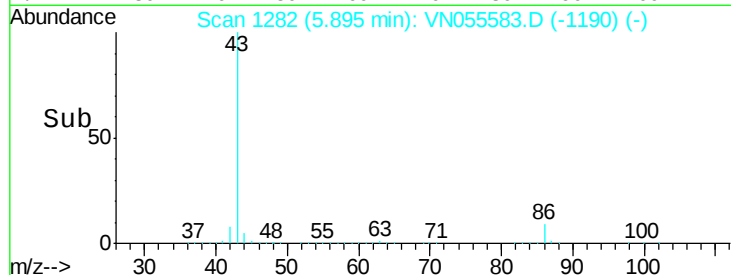
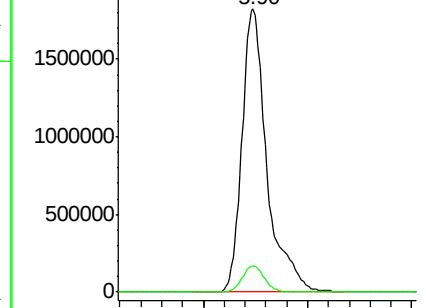
MMDadoda

5/14/2019 9:43:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 47.030 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

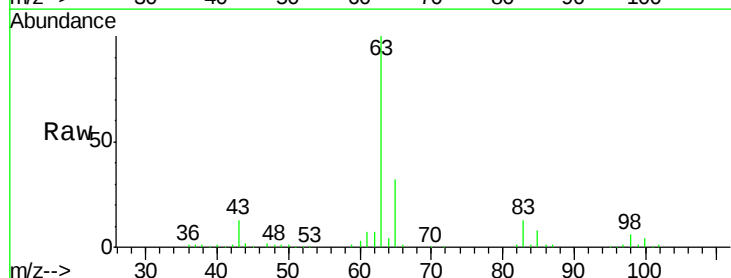
Tgt Ion: 63 Resp: 839655

Ion Ratio Lower Upper

63 100

98 6.1 3.0 9.0

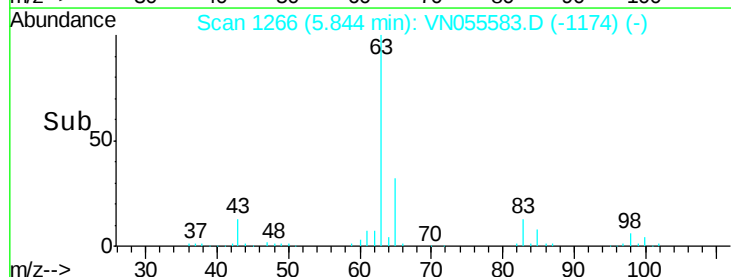
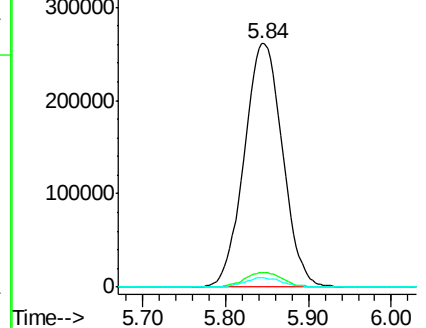
100 3.9 1.9 5.7

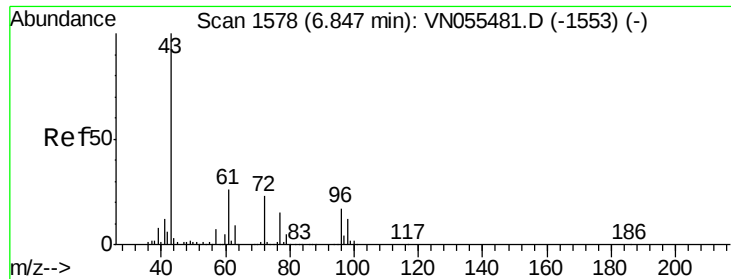


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 214.425 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. -0.01 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 1501186

Ion Ratio Lower Upper

43 100

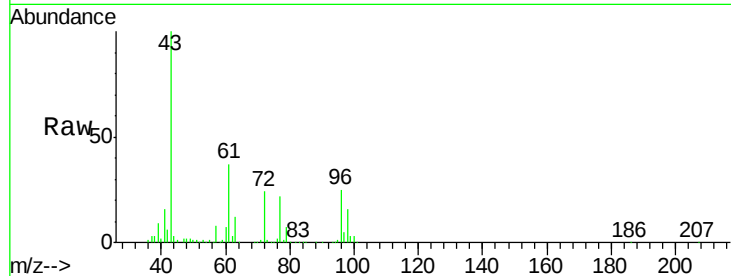
72 24.4 18.6 27.8

Manual Integrations

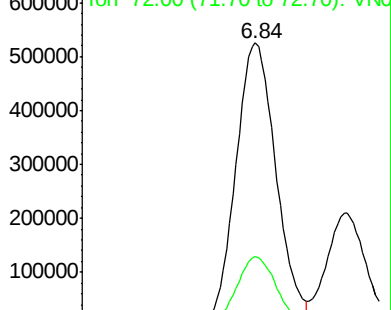
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MMDadoda

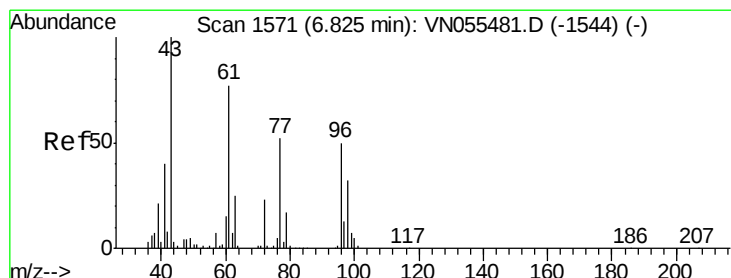
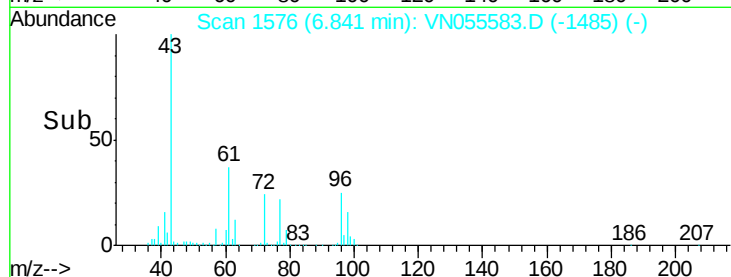
5/14/2019 9:43:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VN055583.D (-1485) (-)



Time-->



#26

2,2-Dichloropropane

Concen: 48.612 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN055583.D

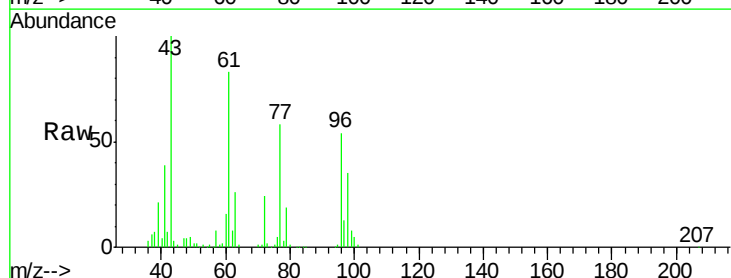
Acq: 13 May 2019 18:41

Tgt Ion: 77 Resp: 541038

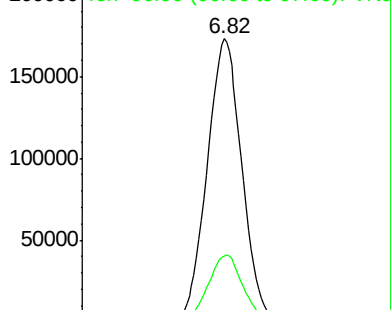
Ion Ratio Lower Upper

77 100

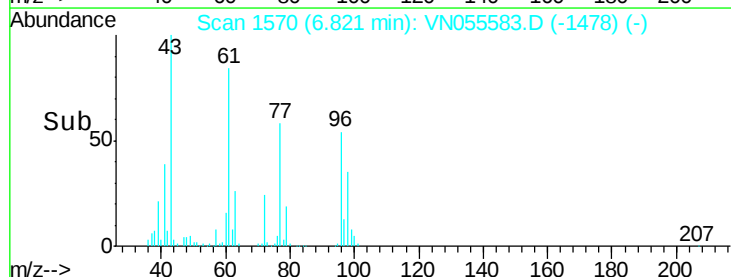
97 23.8 11.5 34.5

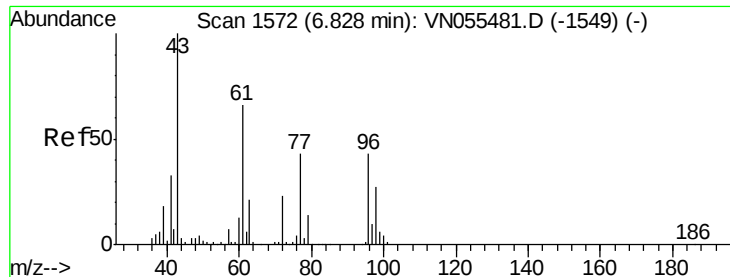


Abundance Ion 76.90 (76.60 to 77.60): VN055583.D (-1478) (-)



Time-->





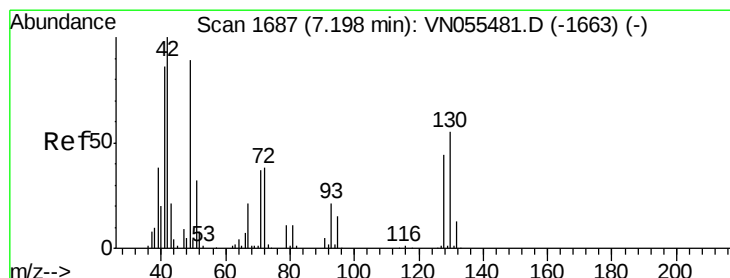
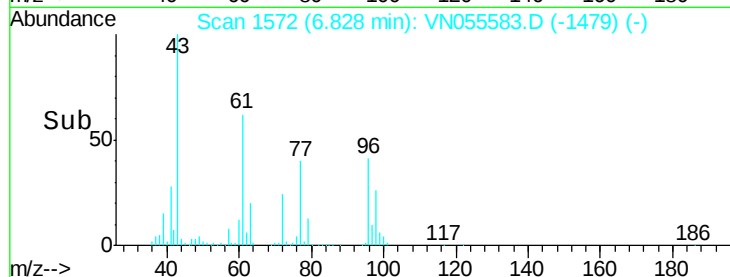
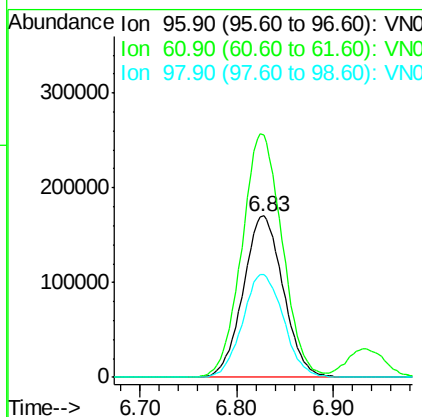
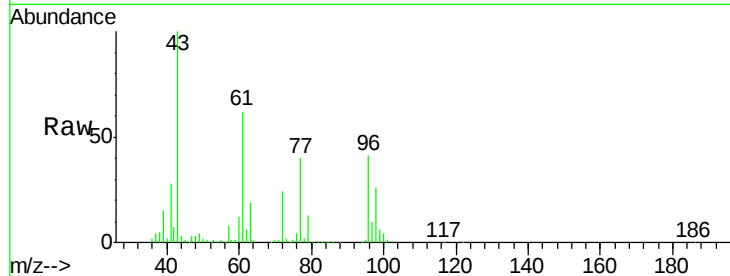
#27
 cis-1,2-Dichloroethene
 Concen: 49.211 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	152.2	0.0	310.8	
98	65.2	0.0	129.4	

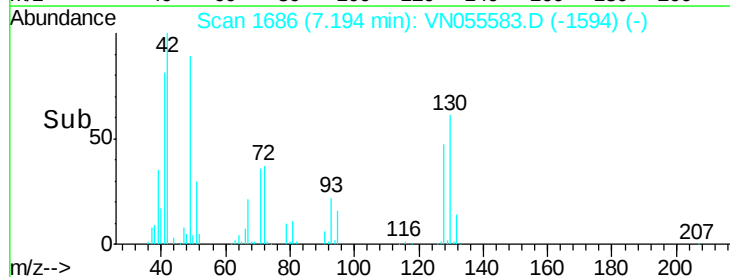
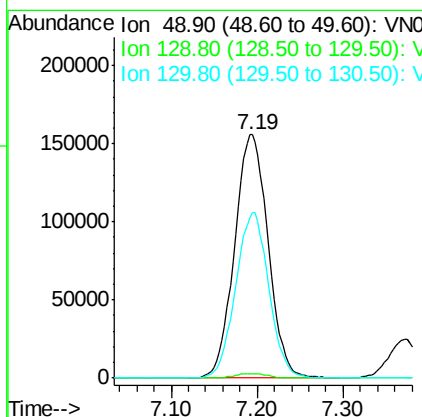
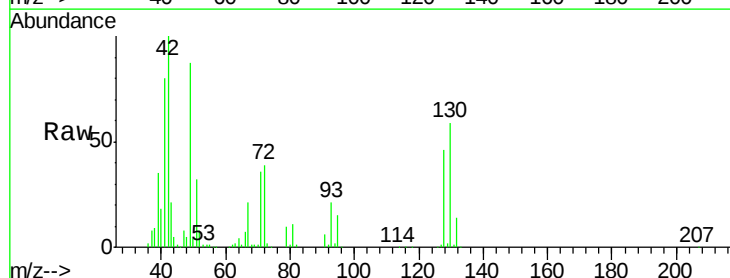
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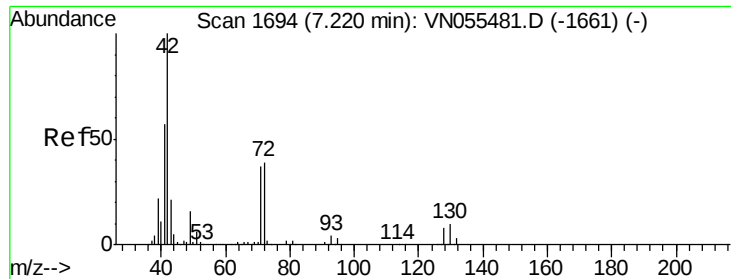
MMDadoda
 5/14/2019 9:43:12 AM



#28
 Bromochloromethane
 Concen: 45.539 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.8	0.0	3.2	
130	67.2	49.5	74.3	





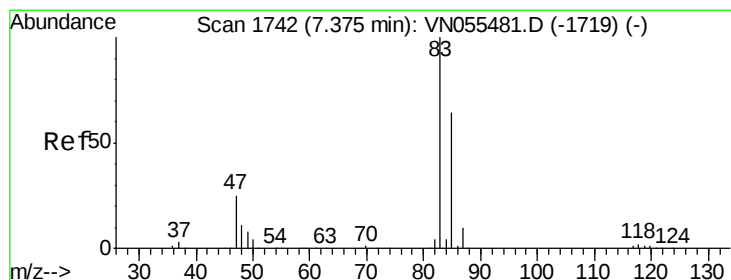
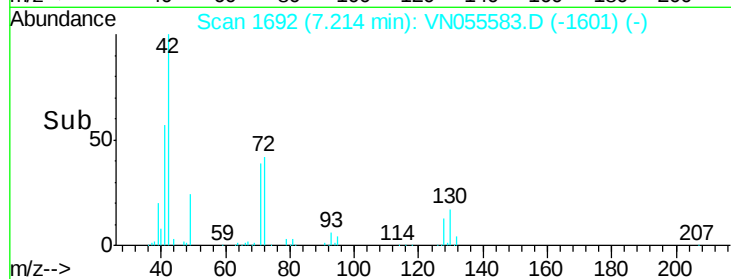
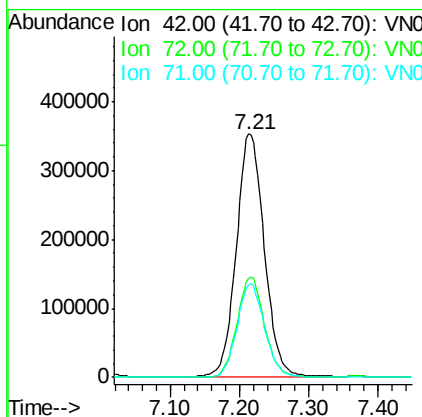
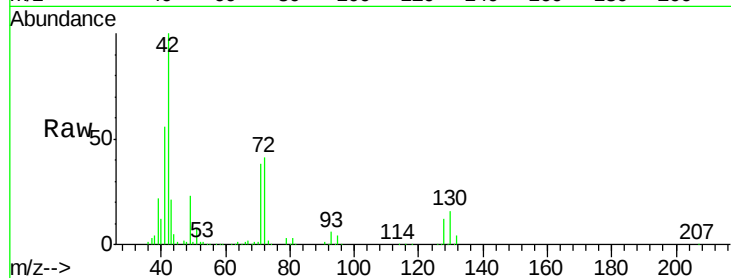
#29
Tetrahydrofuran
Concen: 215.175 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.01 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.1	31.0	46.6
71	37.7	29.4	44.2

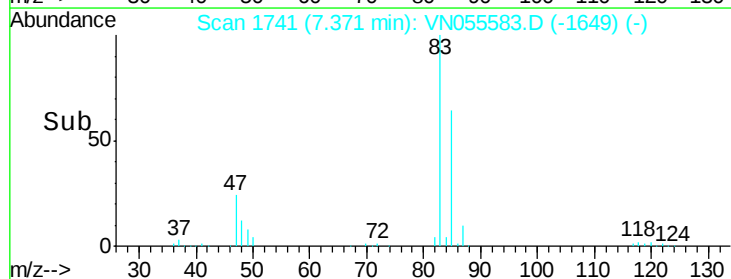
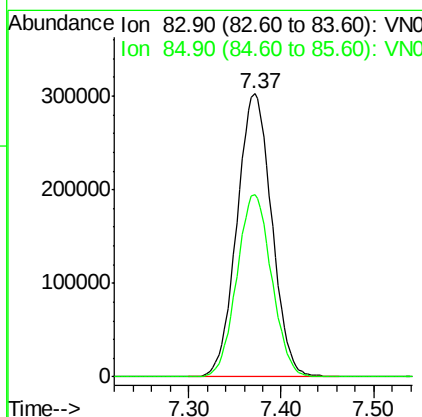
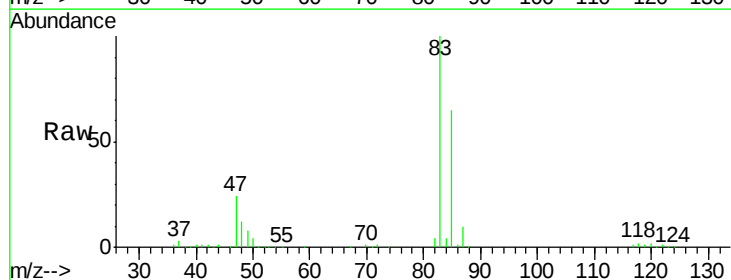
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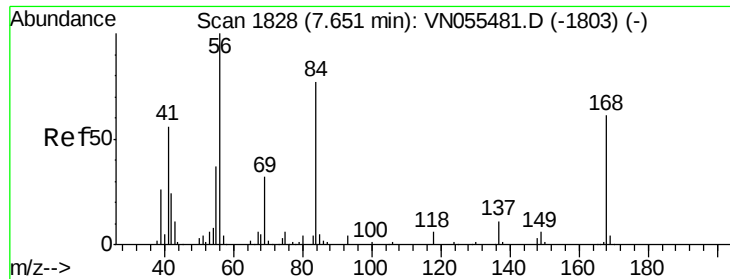
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#30
Chloroform
Concen: 47.715 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.3	76.9





#31

Cyclohexane

Concen: 43.053 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

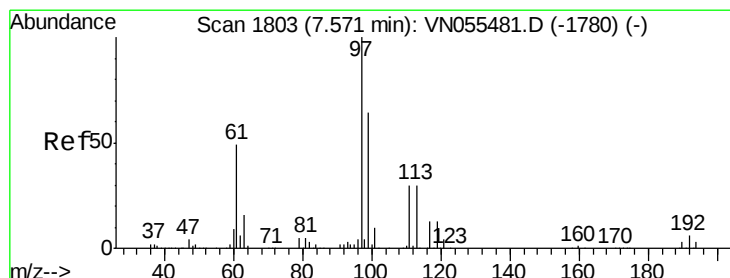
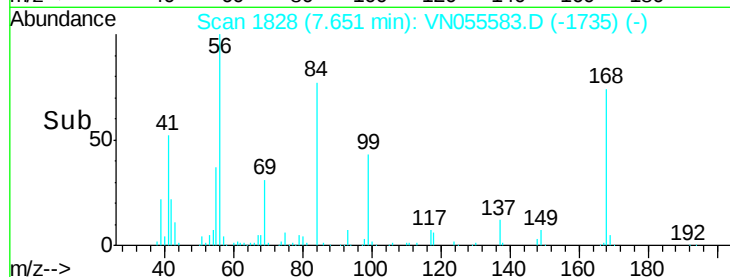
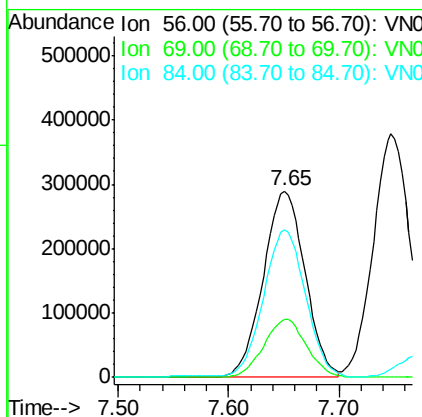
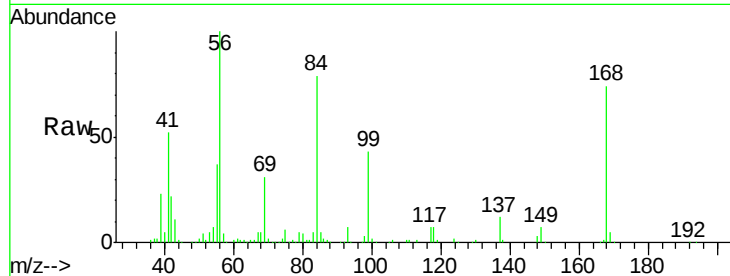
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	760514
Ion Ratio	Lower	Upper	
56	100		
69	31.0	26.0	39.0
84	77.9	61.9	92.9

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#32

1,1,1-Trichloroethane

Concen: 48.568 ug/l

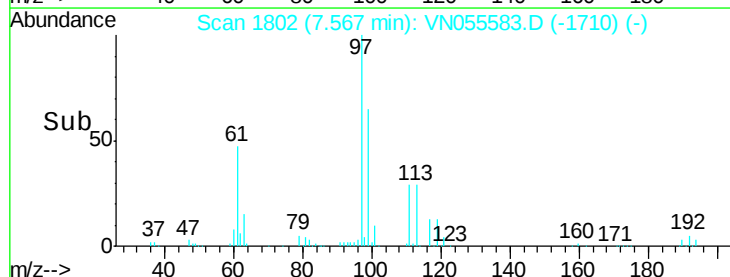
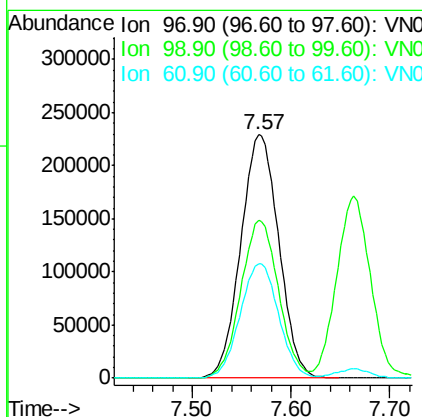
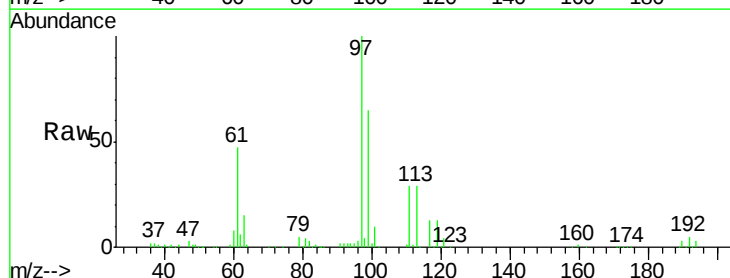
RT: 7.57 min Scan# 1802

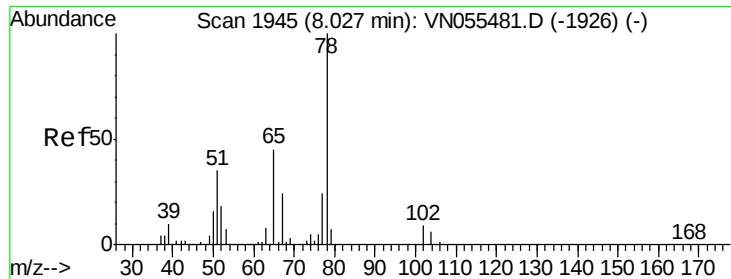
Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion:	97	Resp:	610437
Ion Ratio	Lower	Upper	
97	100		
99	64.6	51.2	76.8
61	47.6	39.2	58.8





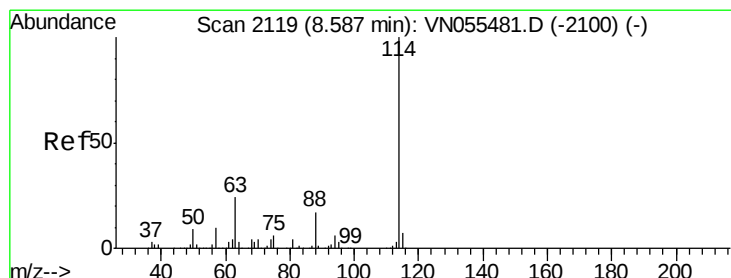
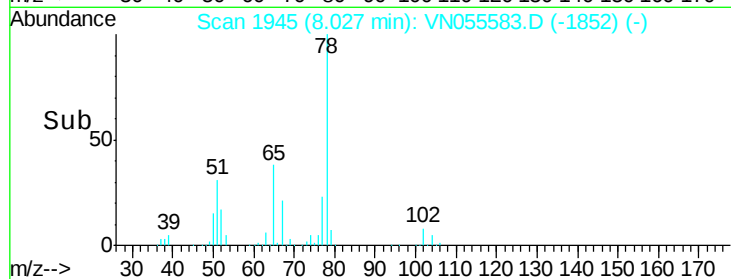
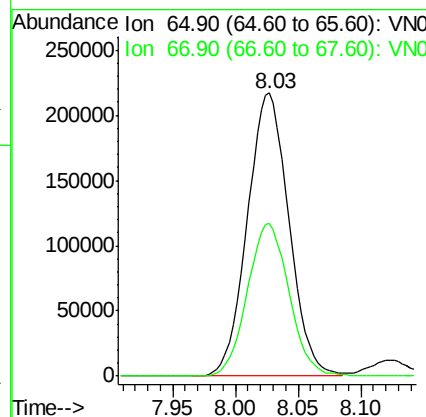
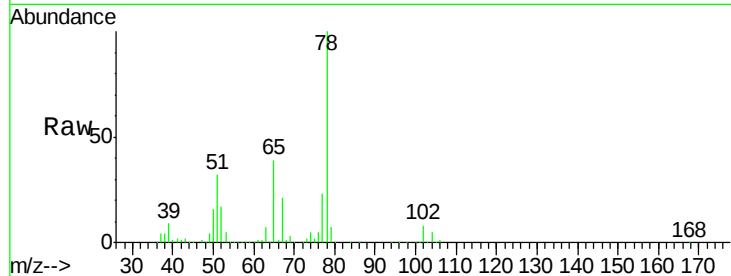
#33
 1,2-Dichloroethane-d4
 Concen: 45.726 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	500499		
67	54.1	0.0	109.6	

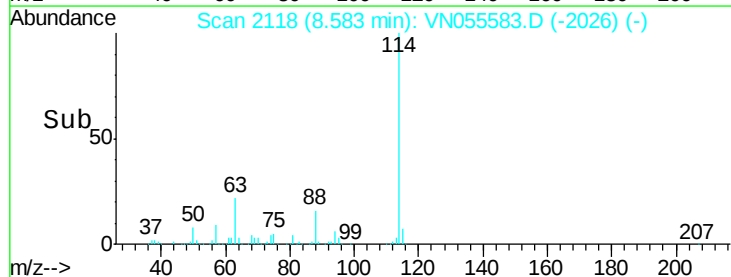
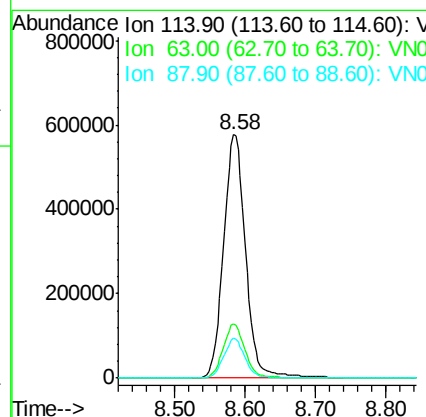
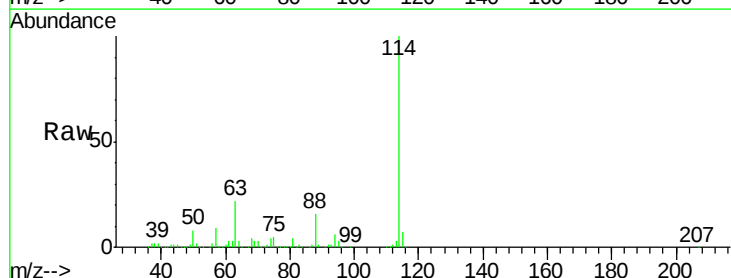
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1262358		
63	22.2	0.0	47.4	
88	16.4	0.0	34.0	





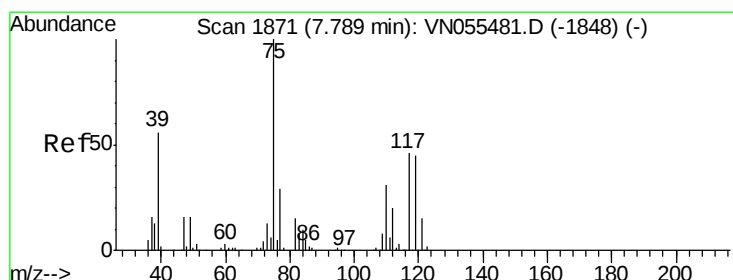
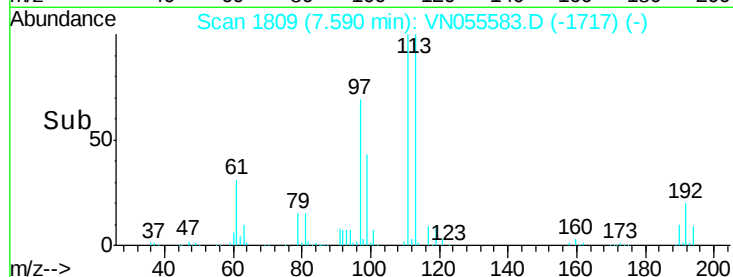
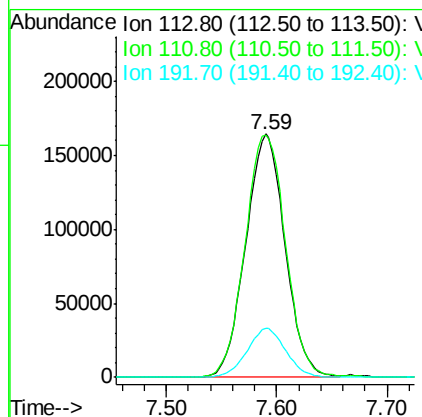
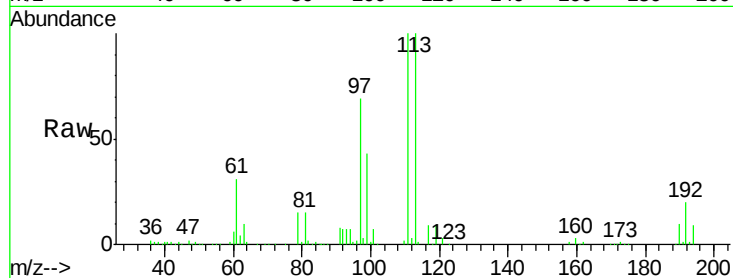
#35
Dibromofluoromethane
Concen: 49.950 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
113	100	406753		
111	102.8	82.9	124.3	
192	19.8	15.6	23.4	

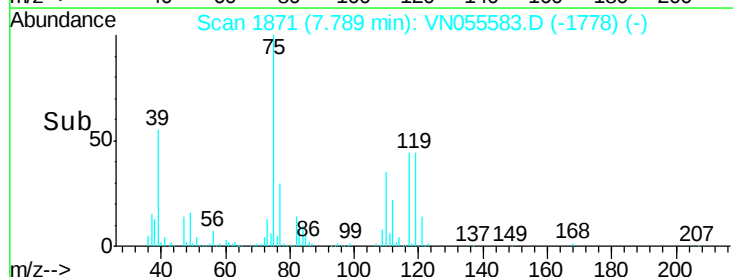
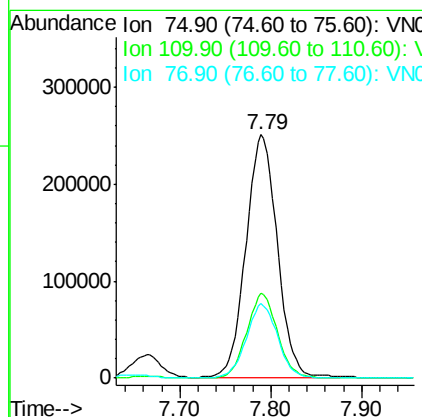
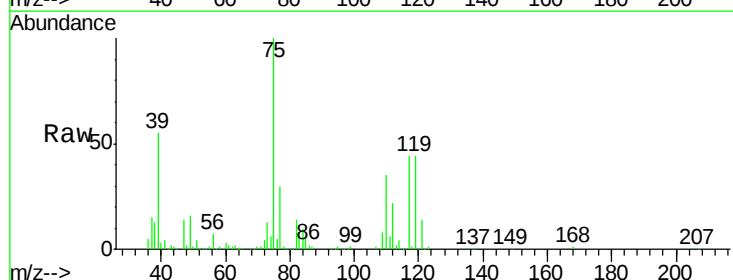
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#36
1,1-Dichloropropene
Concen: 48.326 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	601003		
110	34.2	16.1	48.3	
77	30.7	24.6	37.0	





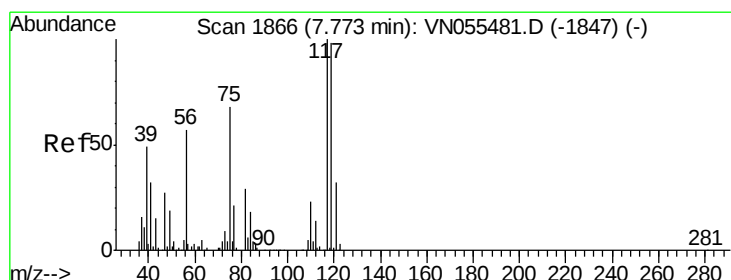
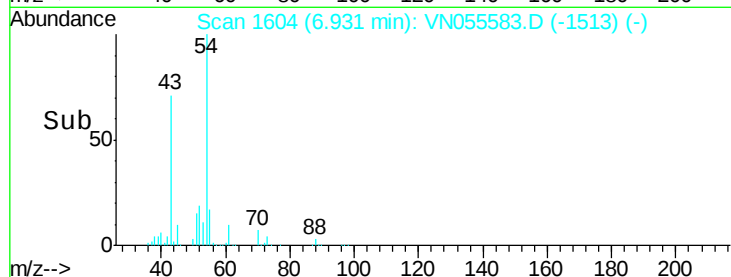
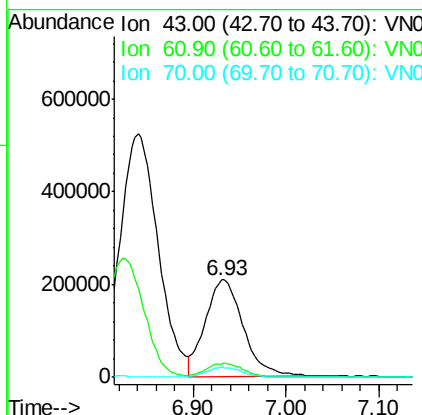
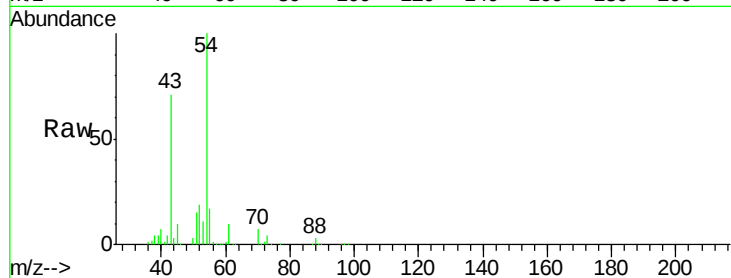
#37
Ethyl Acetate
Concen: 43.812 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.01 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
43	100	594363		
61	14.0		10.9	16.3
70	10.1		7.0	10.6

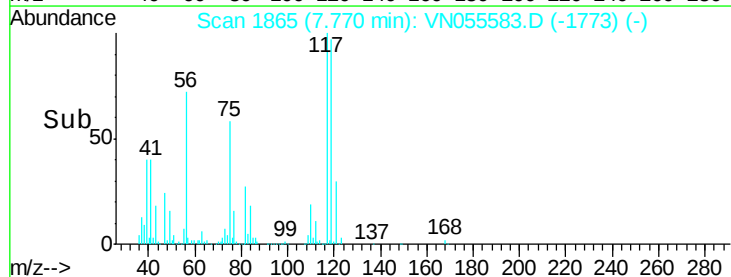
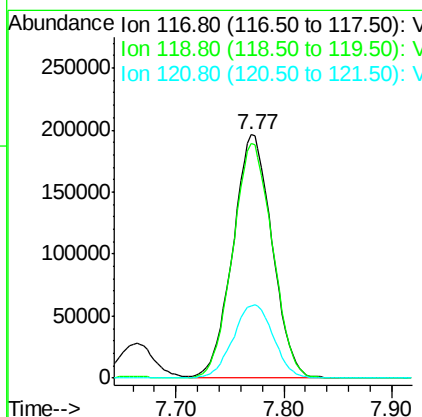
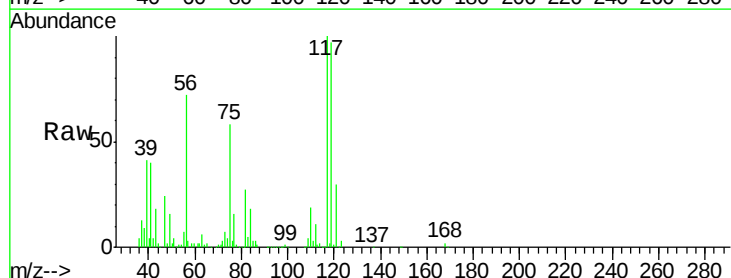
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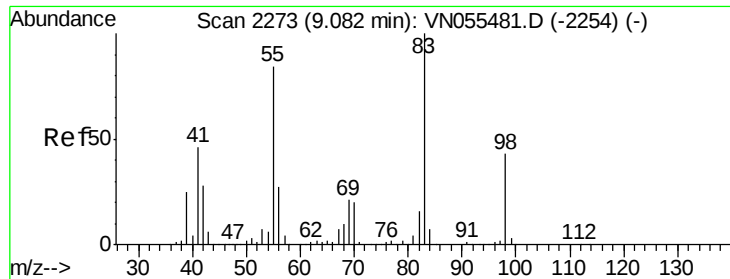
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#38
Carbon Tetrachloride
Concen: 47.379 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	496151		
119	96.6		77.8	116.6
121	29.7		25.2	37.8





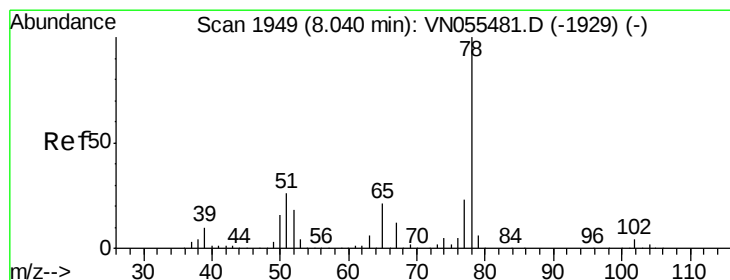
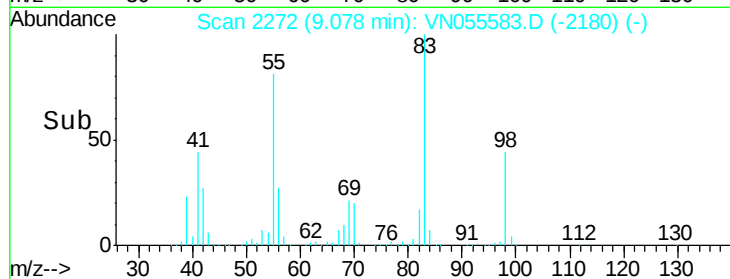
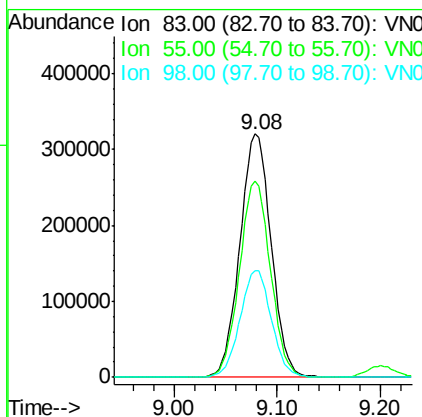
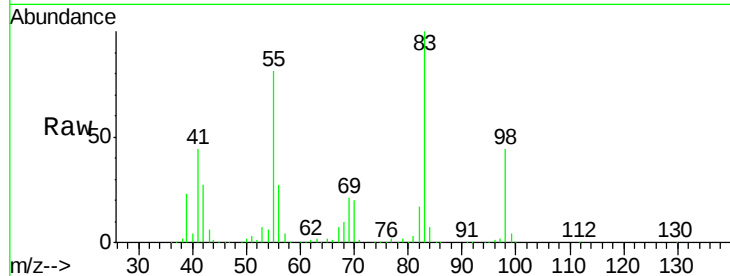
#39
Methvlcvclohexane
Concen: 44.708 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	83.00	Resp	677914
Ion Ratio	Lower	Upper	
83	100		
55	80.7	67.0	100.4
98	44.0	34.2	51.4

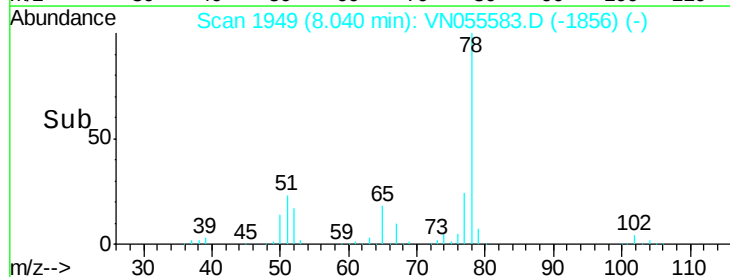
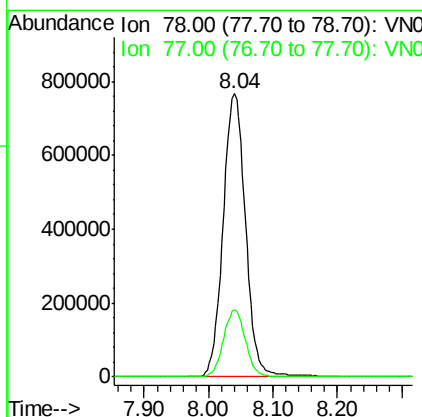
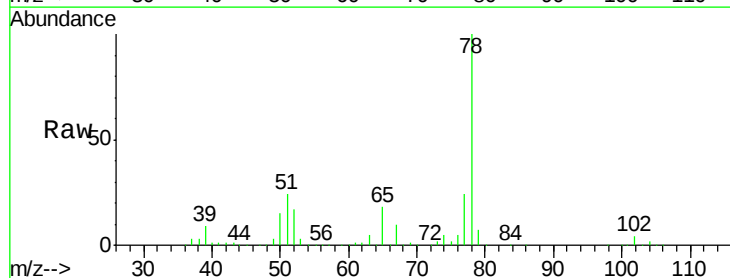
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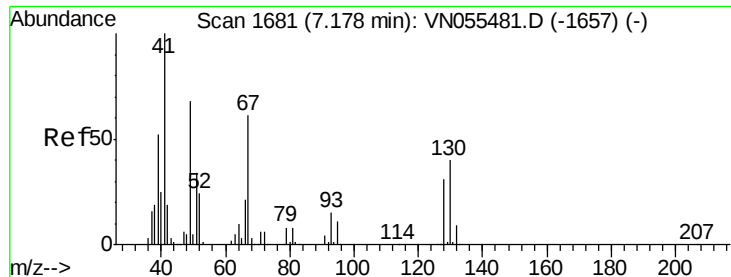
MMDadoda
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#40
Benzene
Concen: 48.107 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	78.00	Resp	1856821
Ion Ratio	Lower	Upper	
78	100		
77	23.7	18.6	27.8





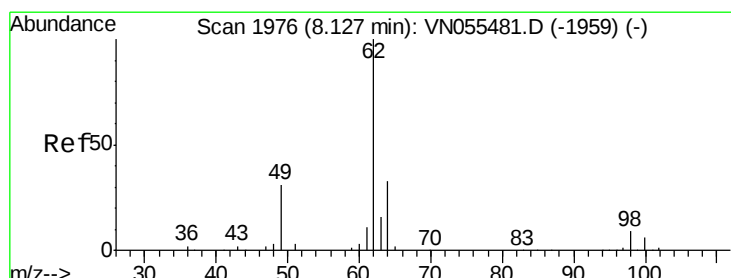
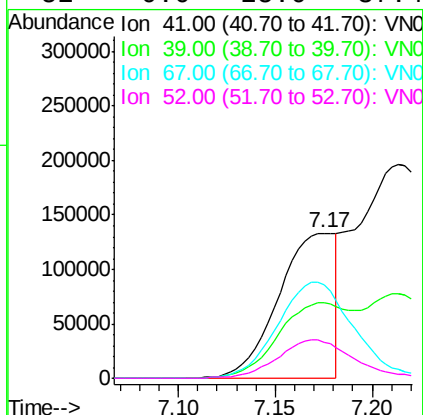
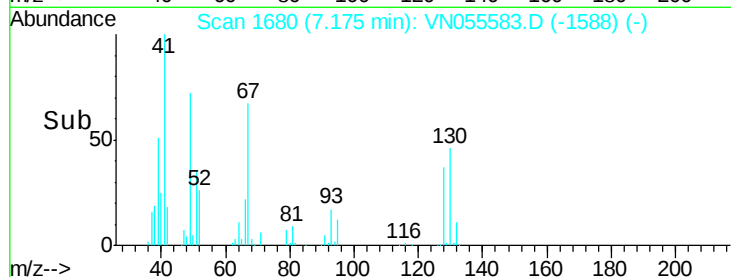
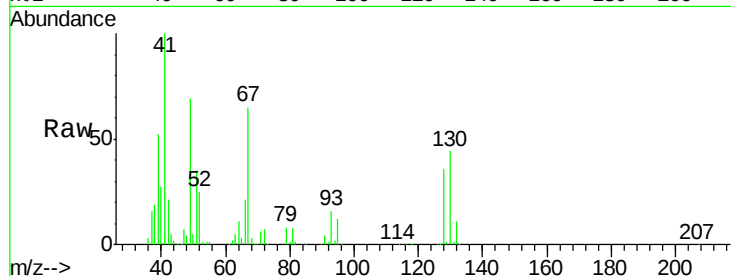
#41
Methacrylonitrile
Concen: 43.513 ug/l m
RT: 7.17 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	44.7	67.1#
67	0.0	61.4	92.0#
52	0.0	25.0	37.4#

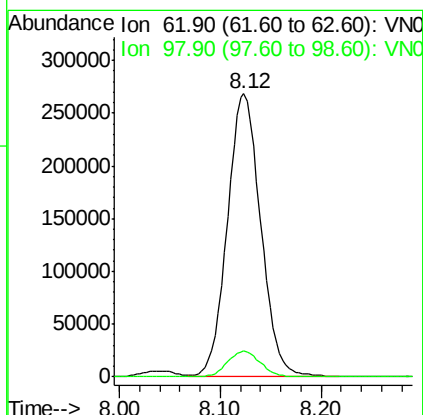
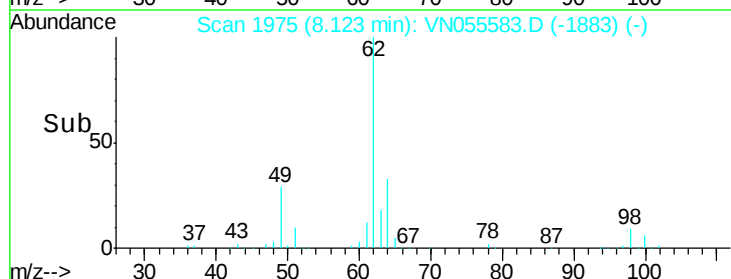
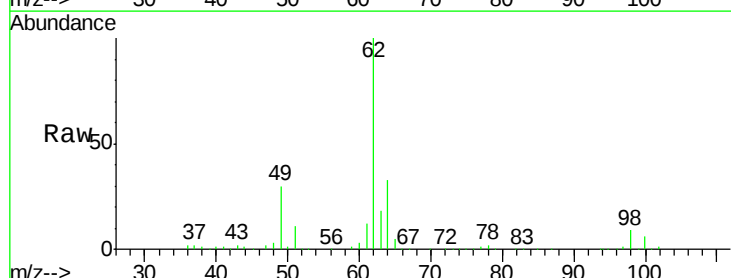
Manual Integrations
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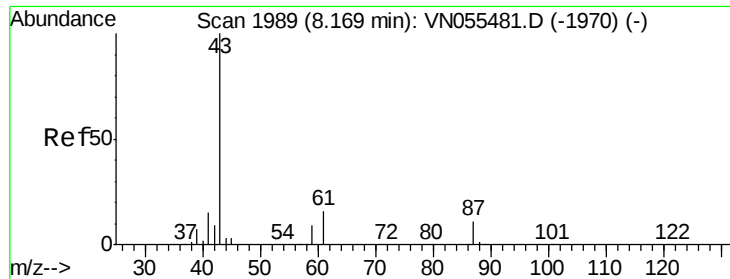
MMDadoda
5/14/2019 9:43:12 AM



#42
1,2-Dichloroethane
Concen: 45.373 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	17.4





#43

Isopropyl Acetate

Concen: 46.329 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

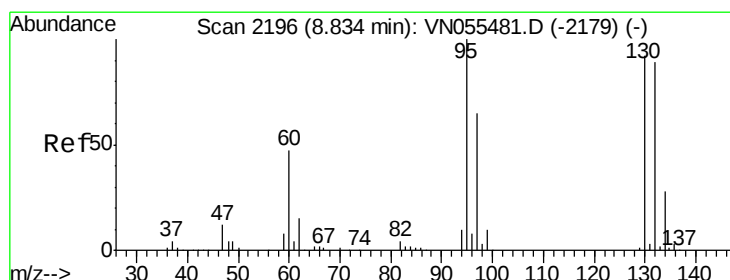
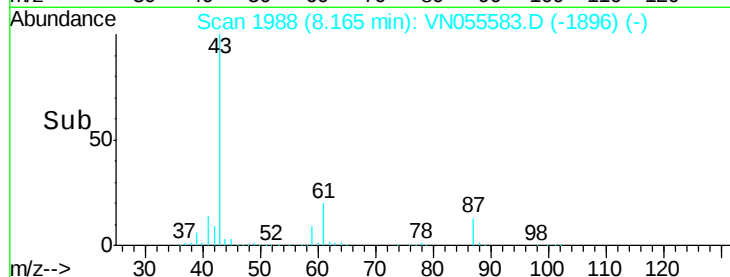
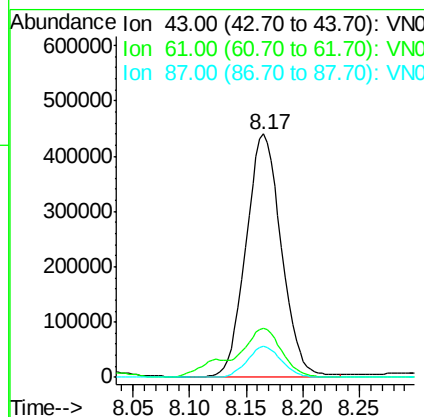
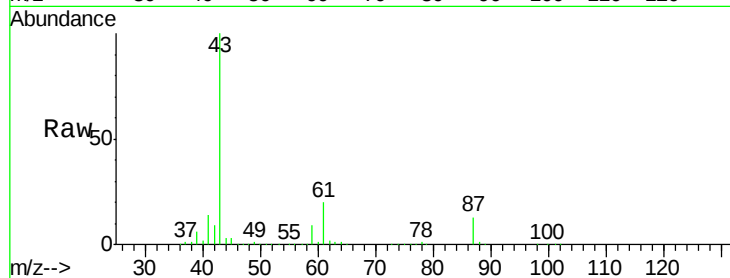
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	954841
Ion	Ratio	Lower	Upper
43	100		
61	21.0	15.1	22.7
87	12.5	9.0	13.6

Manual Integrations
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MMDadoda
5/14/2019 9:43:12 AM



#44

Trichloroethene

Concen: 48.820 ug/l

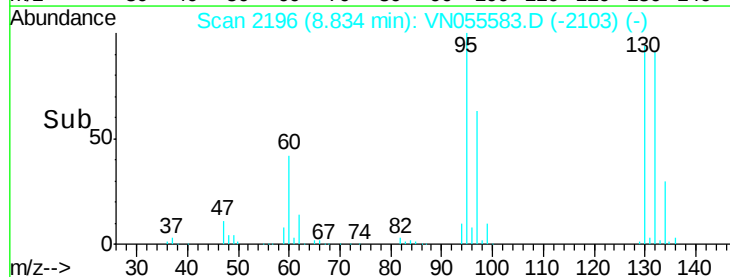
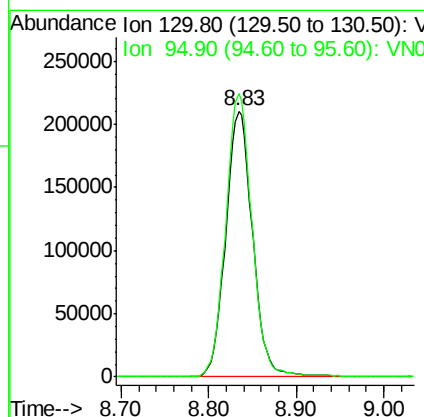
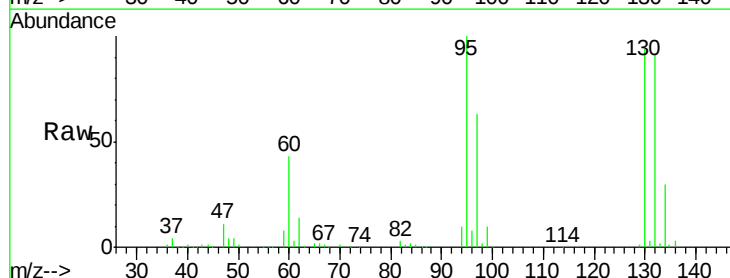
RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion:	130	Resp:	448357
Ion	Ratio	Lower	Upper
130	100		
95	106.5	0.0	216.8





#45

1,2-Dichloropropane

Concen: 47.505 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 524629

Ion Ratio Lower Upper

63 100

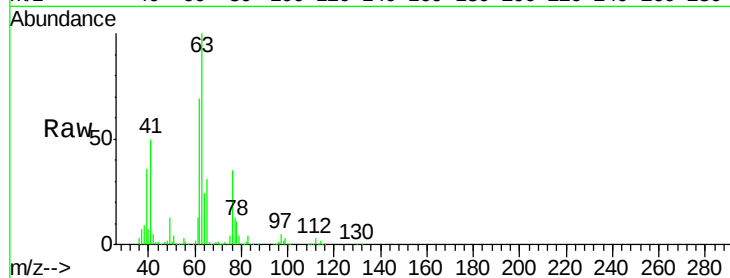
65 30.7 24.1 36.1

Manual Integrations

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MMDadoda

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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.12

250000

200000

150000

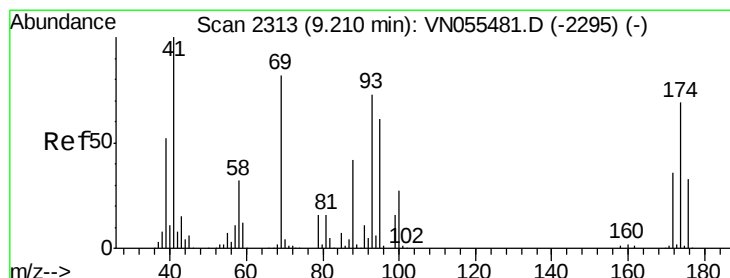
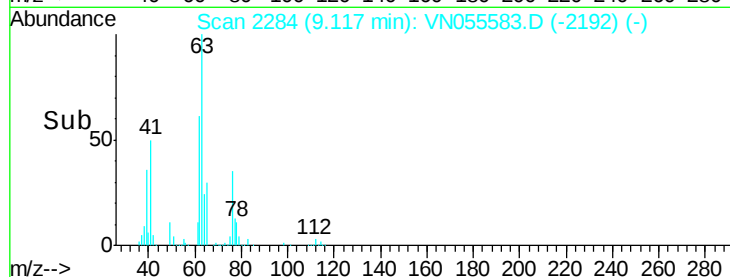
100000

50000

0

Time-->

9.00 9.10 9.20



#46

Dibromomethane

Concen: 47.496 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

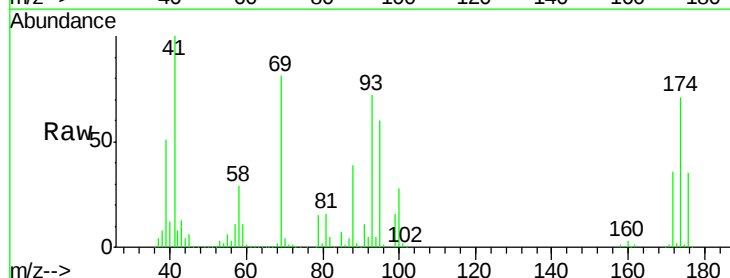
Tgt Ion: 93 Resp: 304037

Ion Ratio Lower Upper

93 100

95 83.4 64.8 97.2

174 98.2 75.0 112.6



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V

200000

150000

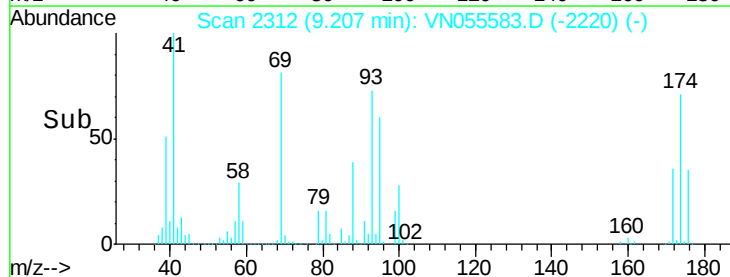
100000

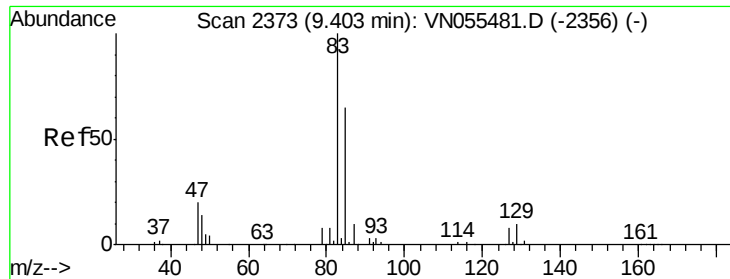
50000

0

Time-->

9.10 9.20 9.30





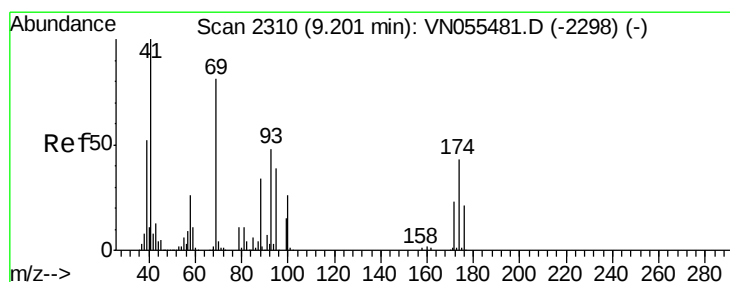
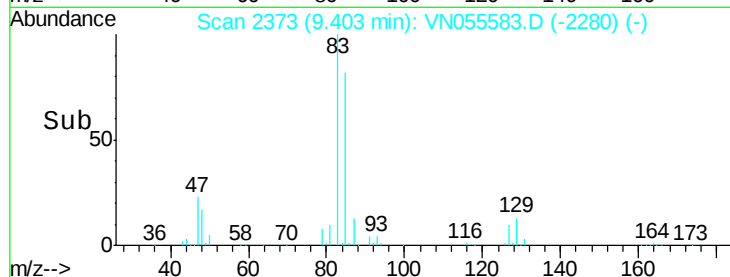
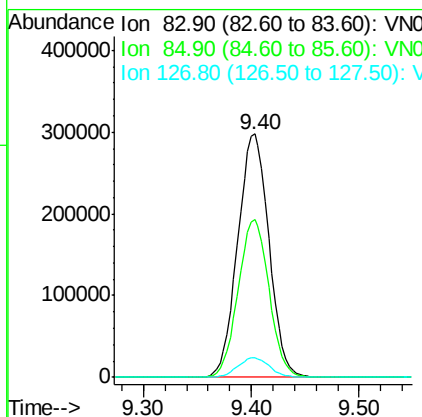
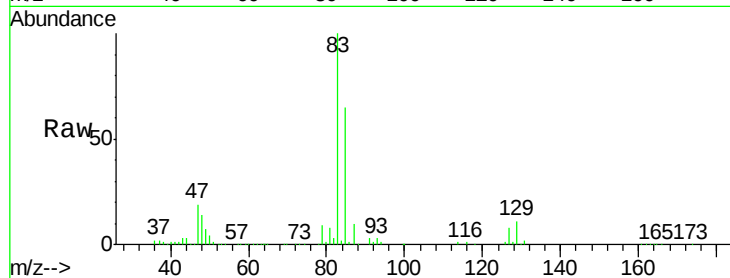
#47
Bromodichloromethane
Concen: 48.816 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.2	78.2
127	8.0	6.5	9.7

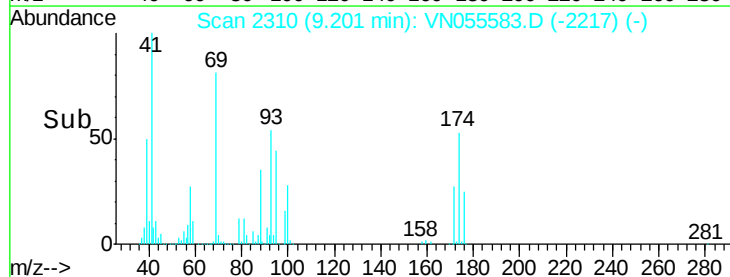
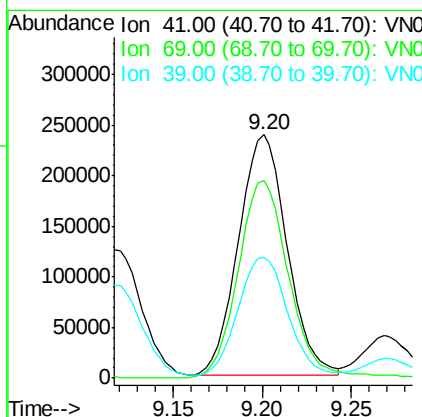
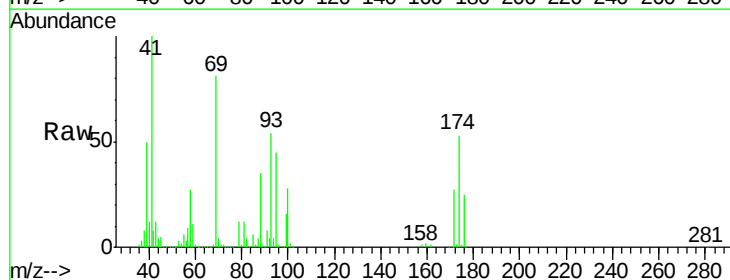
Manual Integrations
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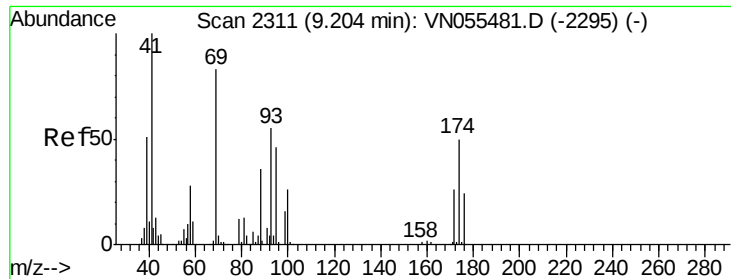
MMDadoda
5/14/2019 9:43:12 AM



#48
Methyl methacrylate
Concen: 45.480 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
41	100		
69	86.3	64.2	96.2
39	52.2	41.6	62.4





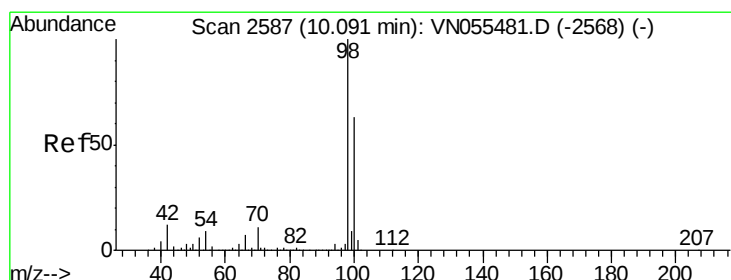
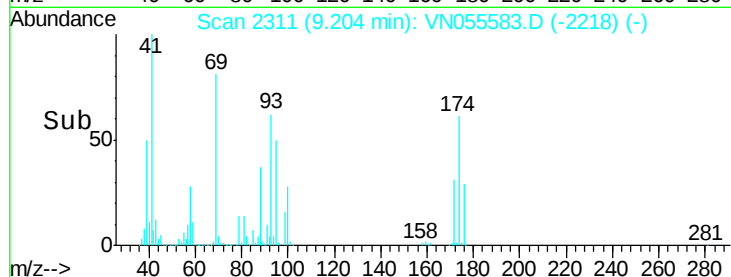
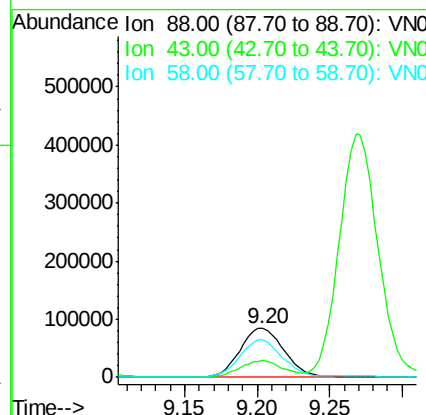
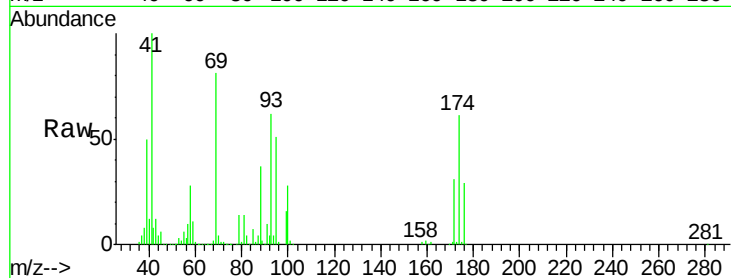
#49
1,4-Dioxane
Concen: 930.919 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	88	Resp	180171
Ion	Ratio	Lower	Upper
88	100		
43	30.7	27.8	41.8
58	74.3	61.8	92.6

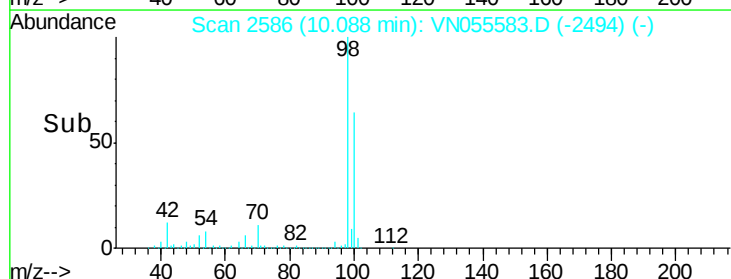
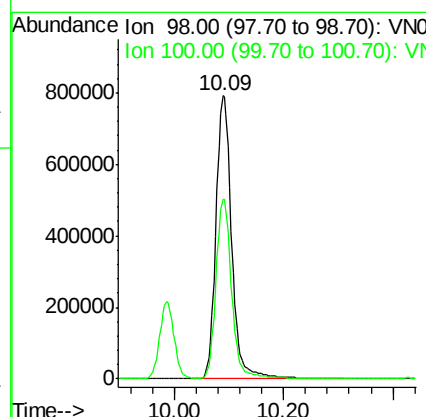
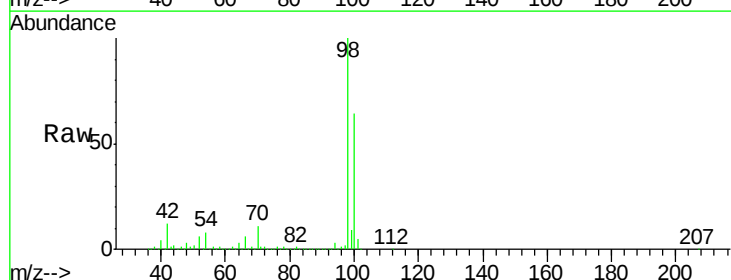
Manual Integrations
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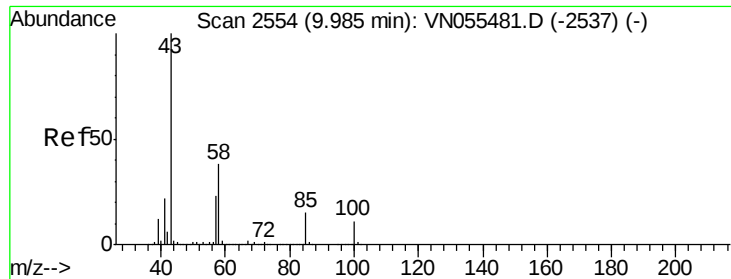
MMDadoda
5/14/2019 9:43:12 AM



#50
Toluene-d8
Concen: 49.811 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	98	Resp	1580682
Ion	Ratio	Lower	Upper
98	100		
100	62.1	50.4	75.6





#51

4-Methyl-2-Pentanone

Concen: 223.610 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 3031025

Ion Ratio Lower Upper

43 100

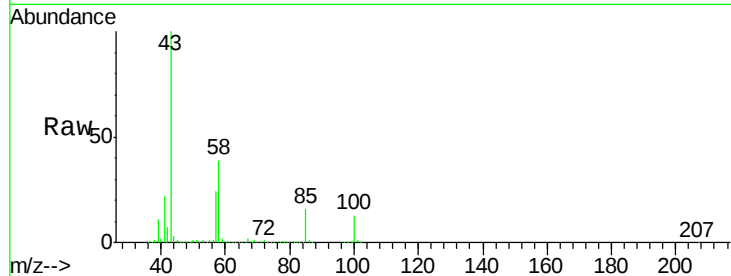
58 38.9 29.9 44.9

Manual Integrations

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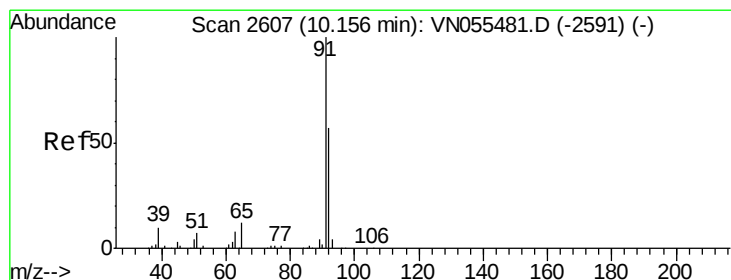
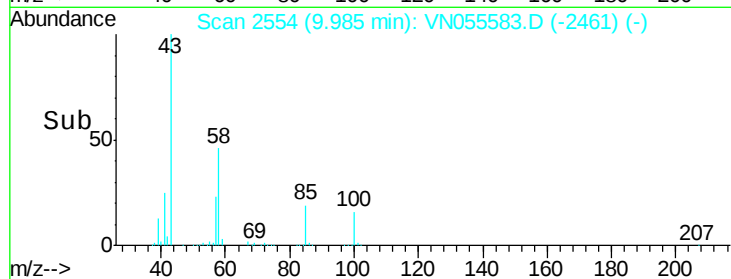
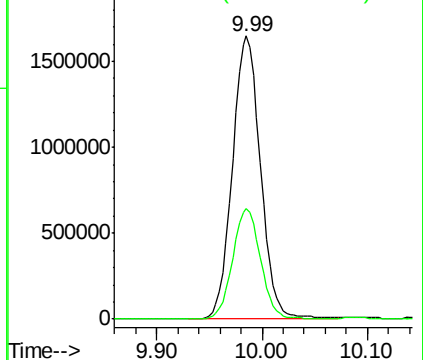
MMDadoda

5/14/2019 9:43:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 49.536 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN055583.D

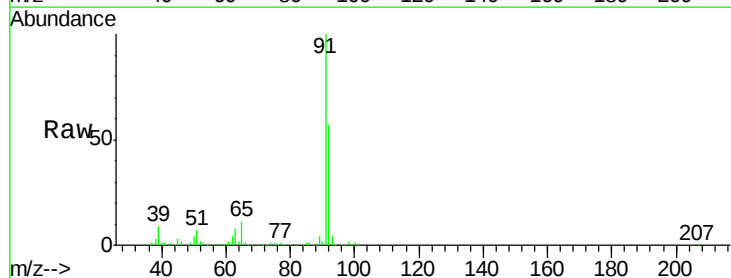
Acq: 13 May 2019 18:41

Tgt Ion: 92 Resp: 1093059

Ion Ratio Lower Upper

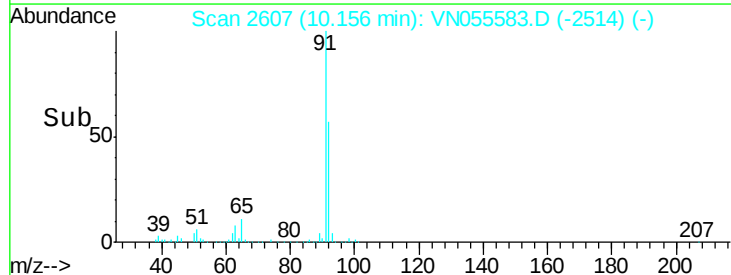
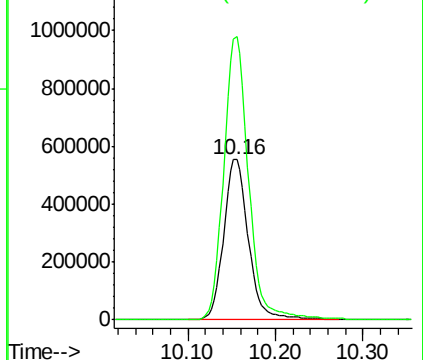
92 100

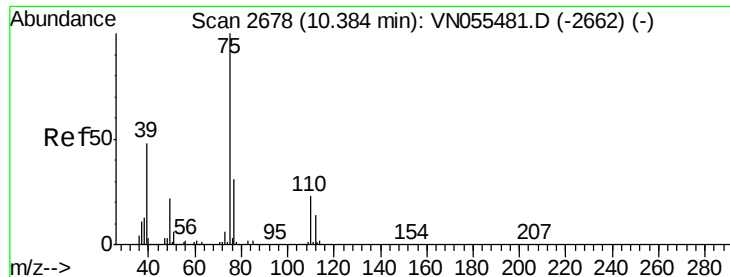
91 176.6 140.5 210.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 52.607 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 618744

Ion Ratio Lower Upper

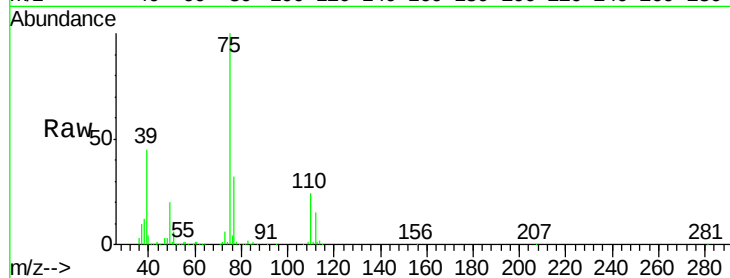
75 100

77 31.8 25.1 37.7

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Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

10.38

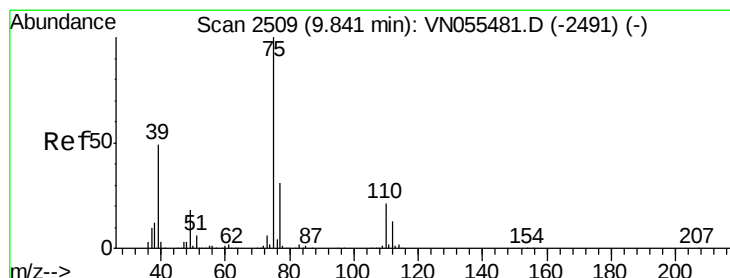
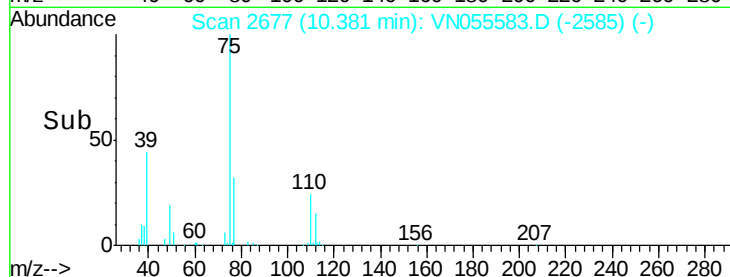
300000

200000

100000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 52.562 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

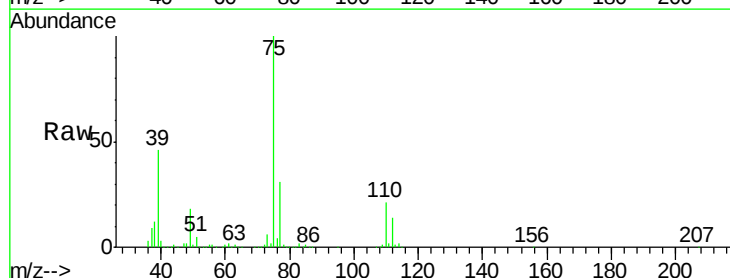
Tgt Ion: 75 Resp: 738721

Ion Ratio Lower Upper

75 100

77 30.9 24.4 36.6

39 45.9 39.5 59.3



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

Ion 39.00 (38.70 to 39.70): VNO

9.84

500000

400000

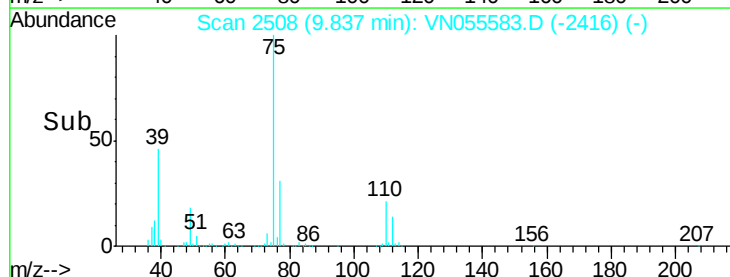
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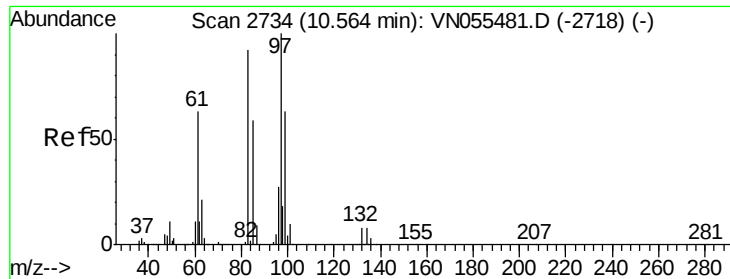
200000

100000

0

Time-->





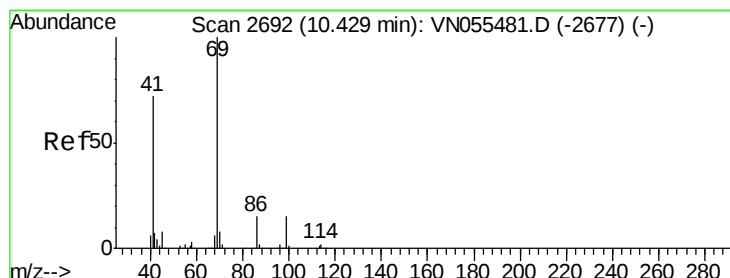
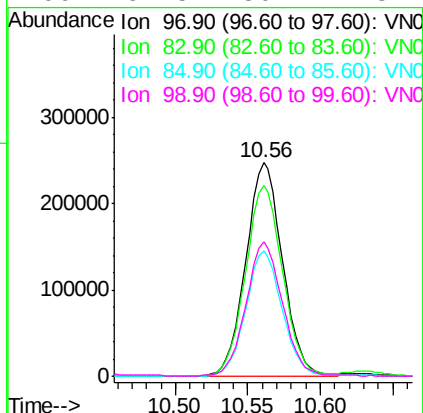
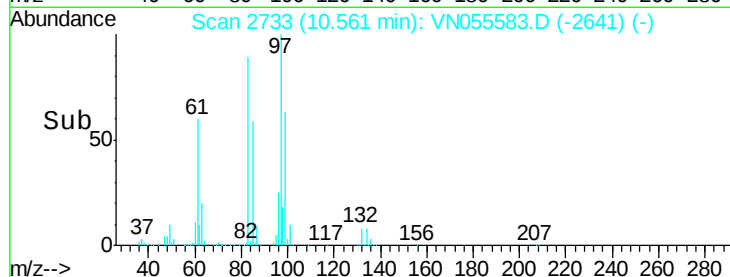
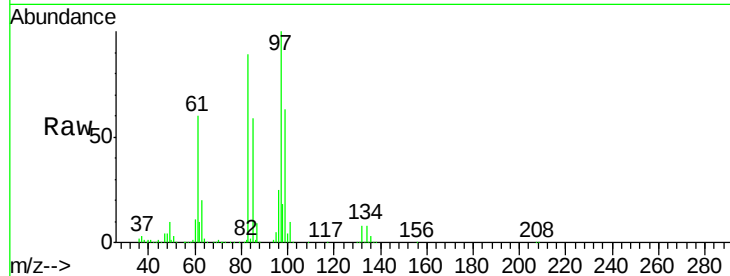
#55
 1,1,2-Trichloroethane
 Concen: 48.778 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	97	Resp:	436099
Ion	Ratio	Lower	Upper
97	100		
83	89.5	73.2	109.8
85	58.7	47.5	71.3
99	62.5	50.2	75.2

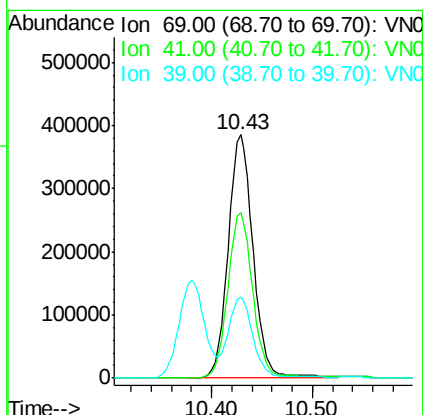
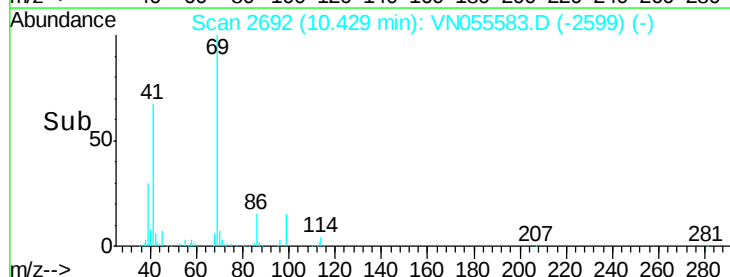
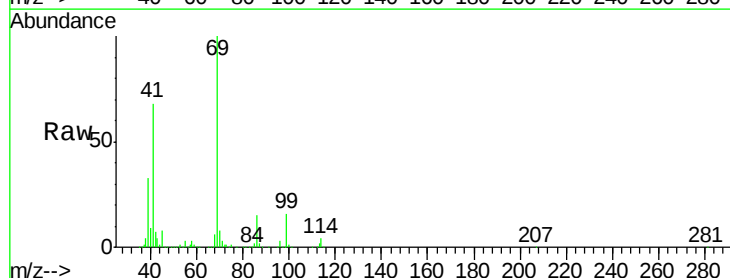
Manual Integrations
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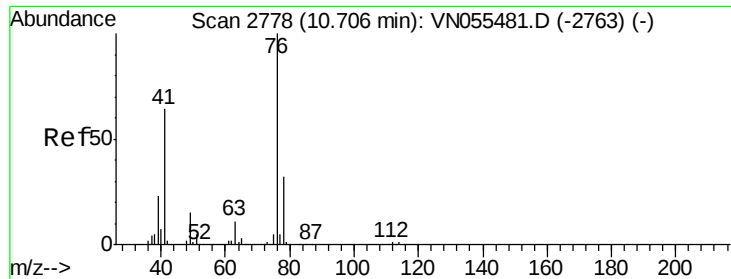
MMDadoda
 5/14/2019 9:43:12 AM



#56
 Ethyl methacrylate
 Concen: 50.107 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Tgt Ion:	69	Resp:	666337
Ion	Ratio	Lower	Upper
69	100		
41	67.2	56.2	84.2
39	31.8	27.8	41.6





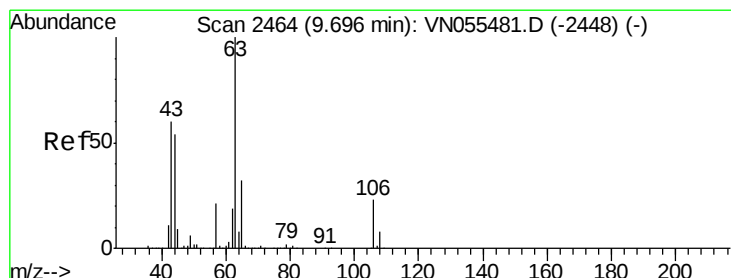
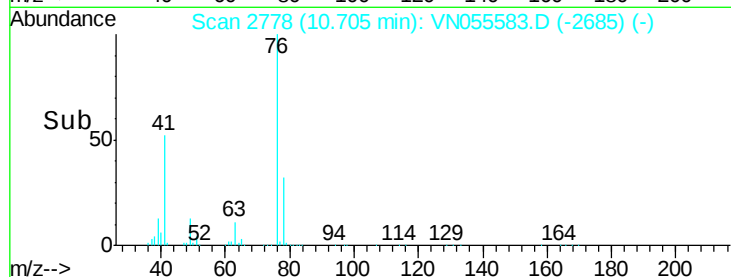
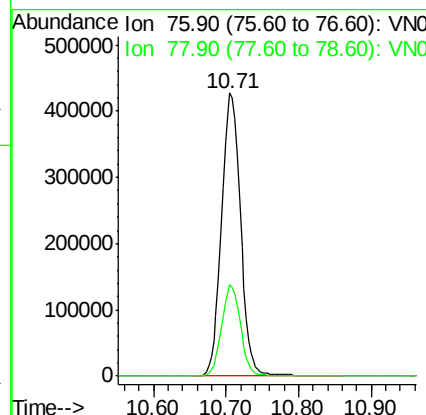
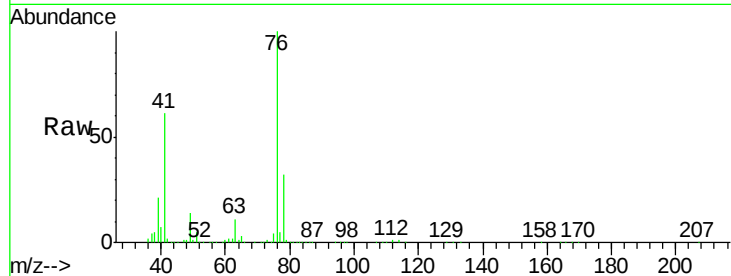
#57
 1,3-Dichloropropane
 Concen: 49.129 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 779790
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.8 38.6

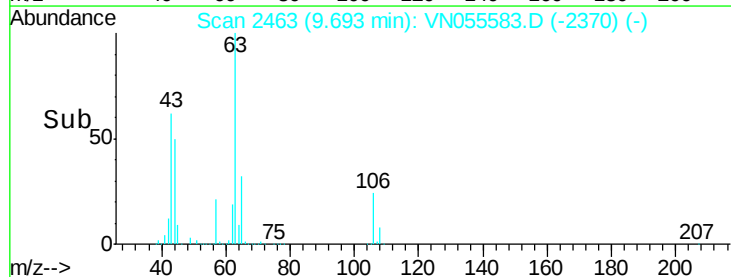
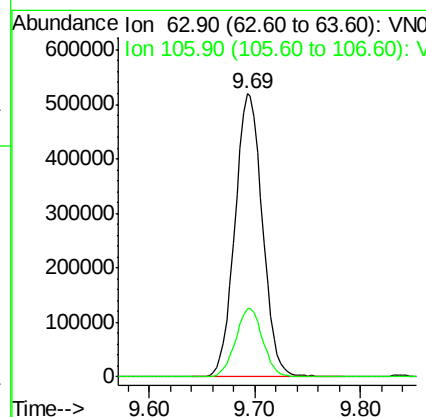
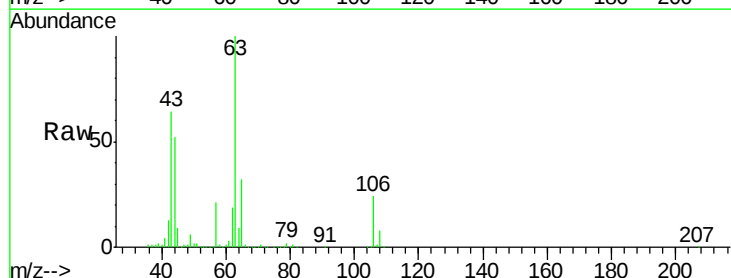
Manual Integrations
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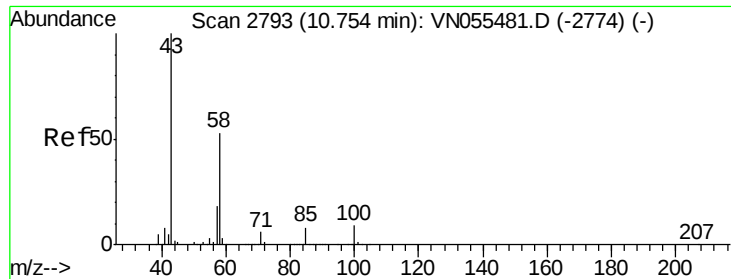
MMDadoda
 5/14/2019 9:43:12 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 211.222 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Tgt Ion: 63 Resp: 936418
 Ion Ratio Lower Upper
 63 100
 106 23.9 18.6 27.8





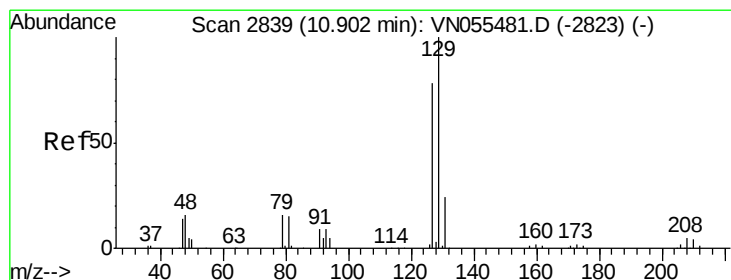
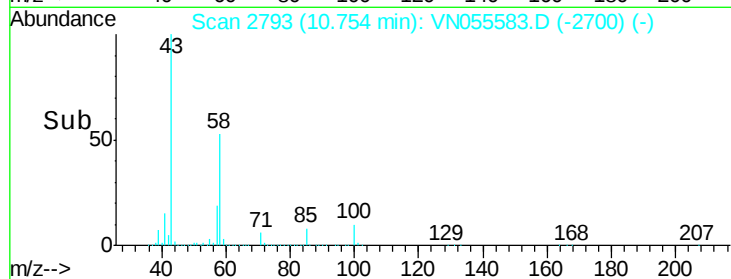
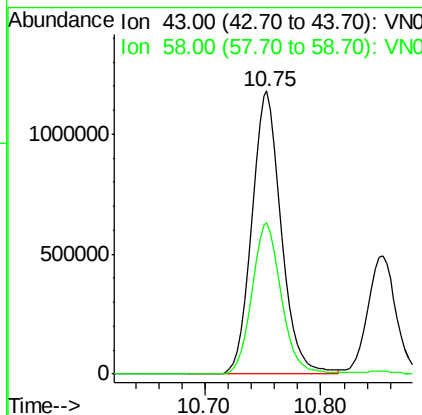
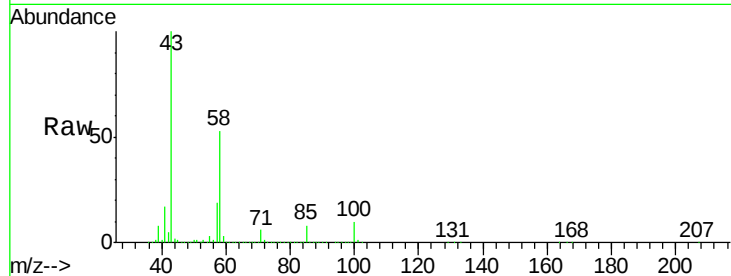
#59
2-Hexanone
Concen: 219.406 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 2085699
Ion Ratio Lower Upper
43 100
58 53.6 26.4 79.0

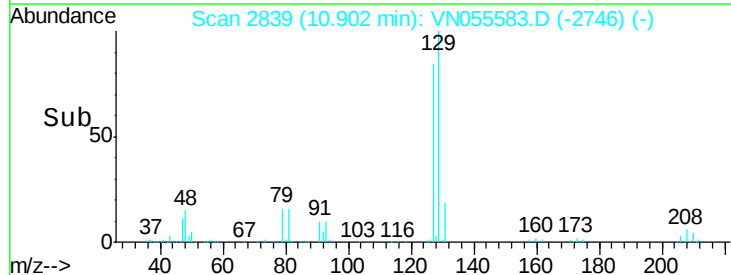
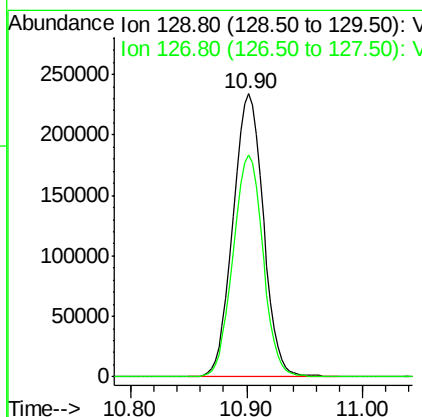
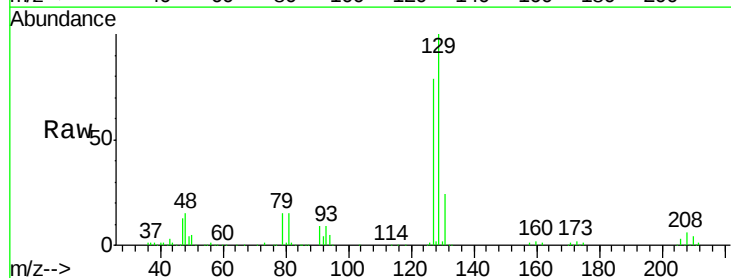
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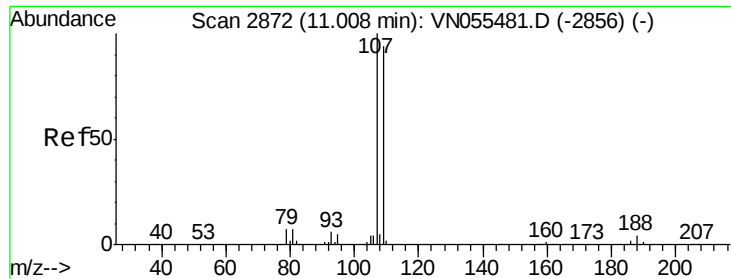
MMDadoda
5/14/2019 9:43:12 AM



#60
Dibromochloromethane
Concen: 52.255 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion: 129 Resp: 424758
Ion Ratio Lower Upper
129 100
127 77.3 38.6 116.0





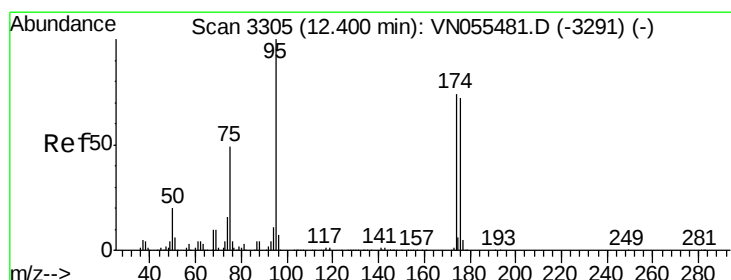
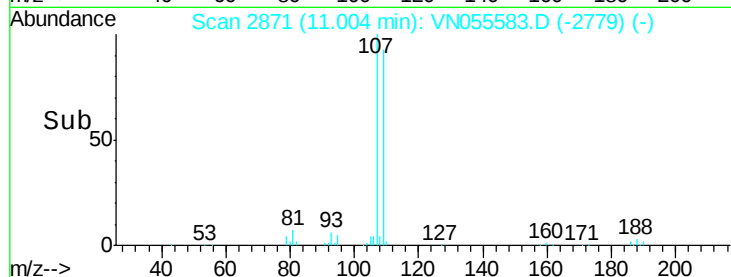
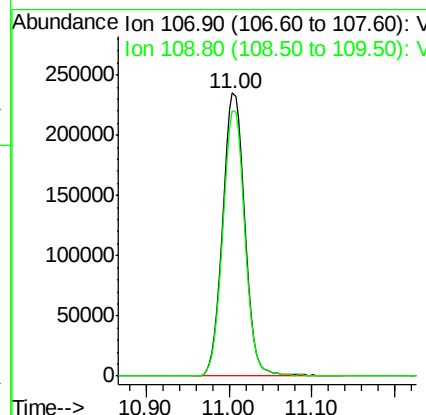
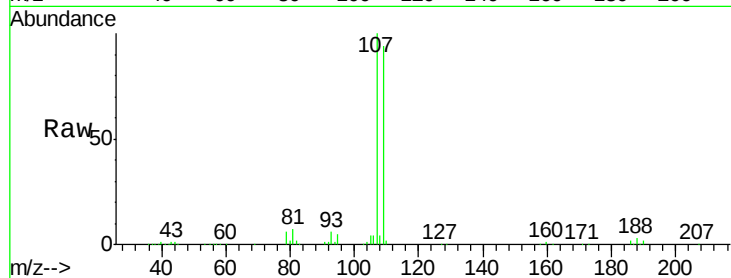
#61
 1,2-Dibromoethane
 Concen: 50.336 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.5	74.2	111.4

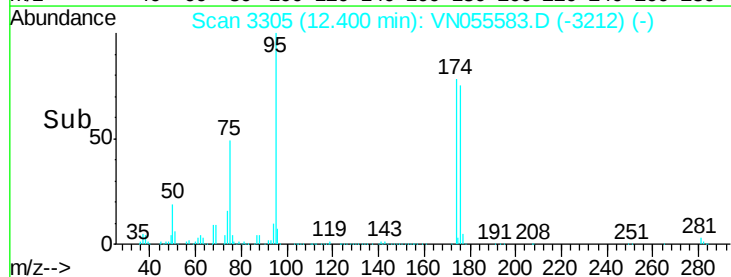
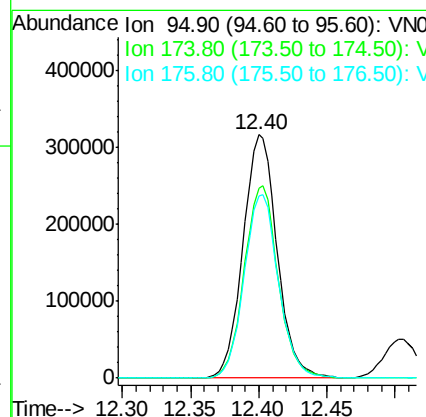
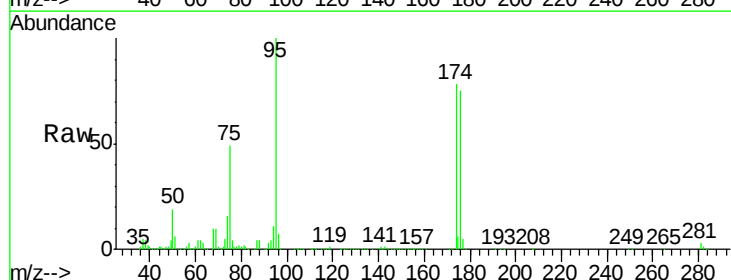
Manual Integrations
 APPROVED

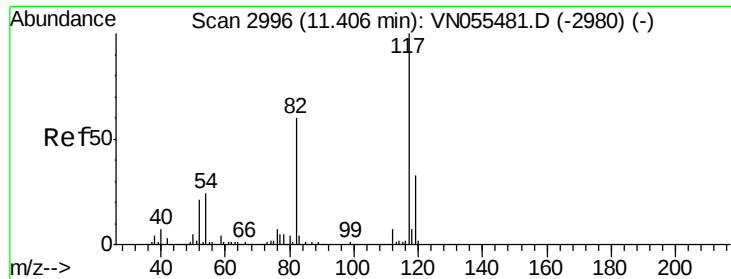
MMDadoda
 5/14/2019 9:43:12 AM



#62
 4-Bromofluorobenzene
 Concen: 51.491 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
95	100		
174	78.7	0.0	152.2
176	76.1	0.0	147.8





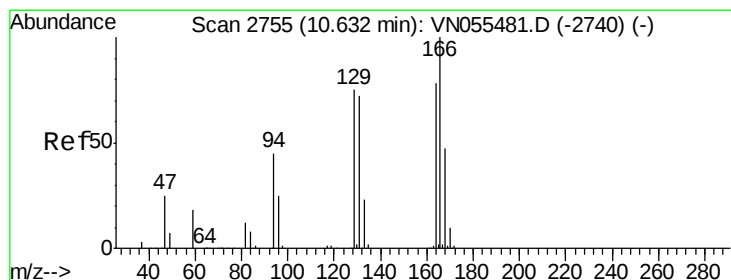
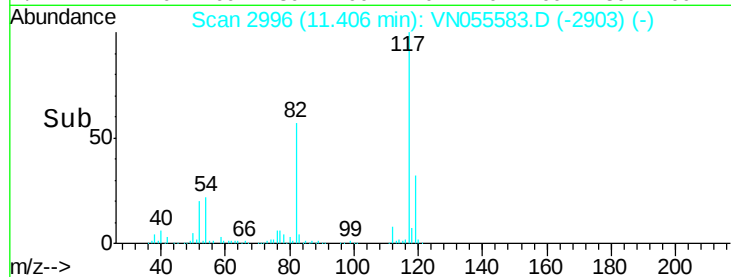
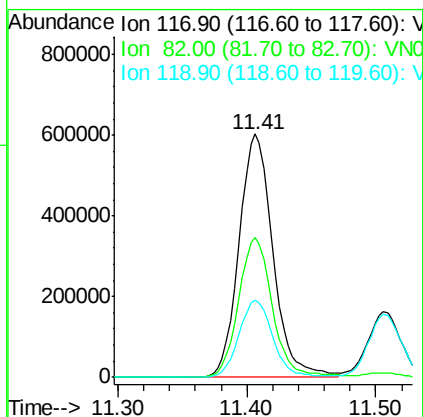
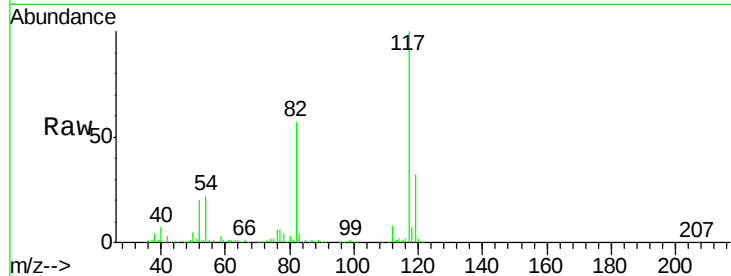
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:117 Resp: 1105746
Ion Ratio Lower Upper
117 100
82 57.4 48.0 72.0
119 31.8 26.0 39.0

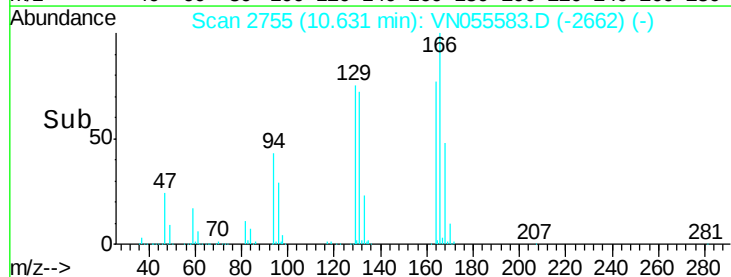
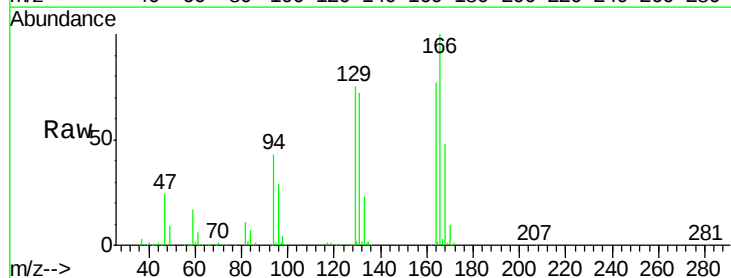
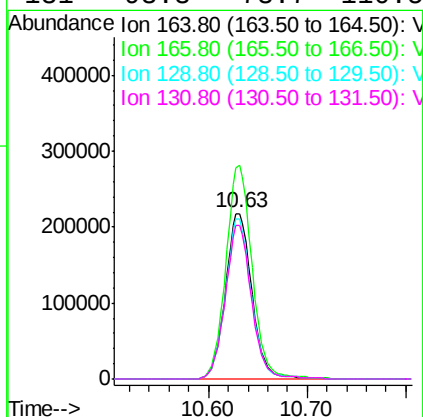
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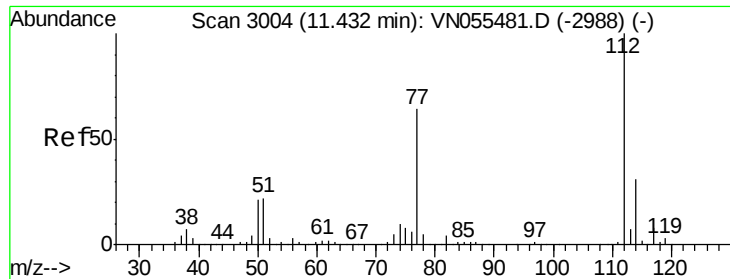
MMDadoda
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#64
Tetrachloroethene
Concen: 45.180 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion:164 Resp: 409352
Ion Ratio Lower Upper
164 100
166 129.2 102.6 153.8
129 97.1 77.0 115.6
131 93.3 73.7 110.5





#65

Chlorobenzene

Concen: 50.322 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 1144780

Ion Ratio Lower Upper

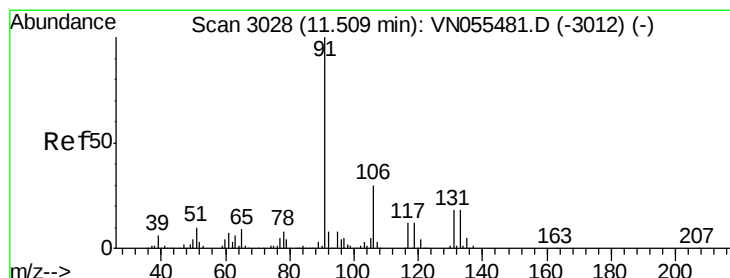
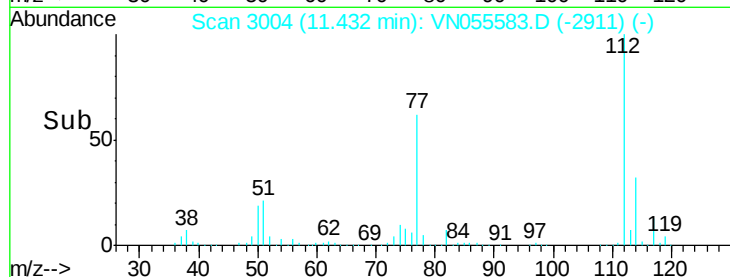
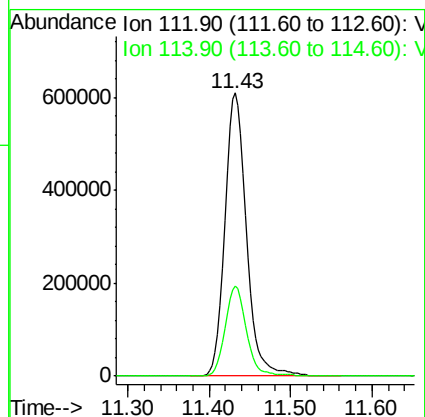
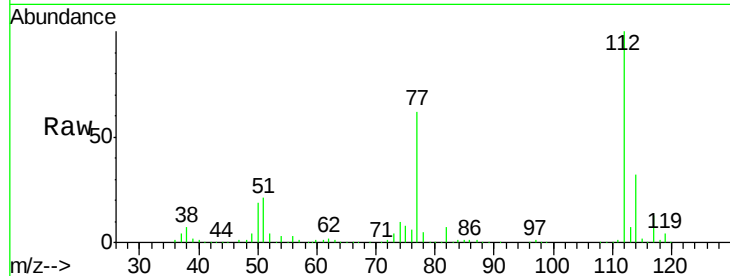
112 100

114 31.9 25.0 37.4

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 51.246 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

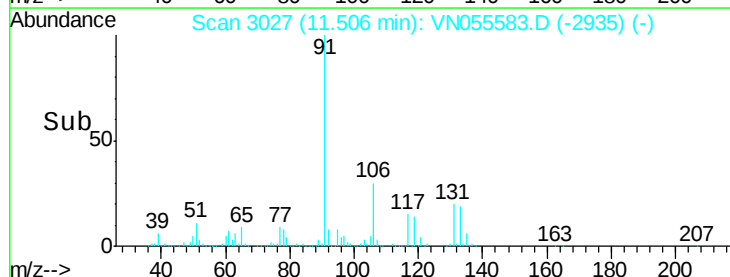
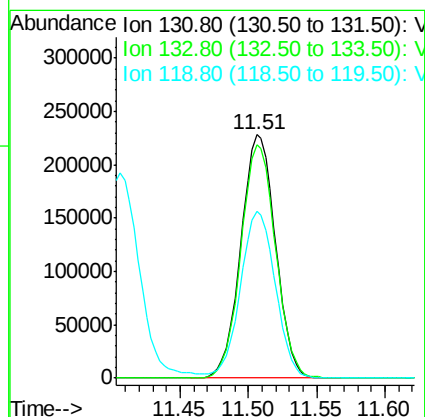
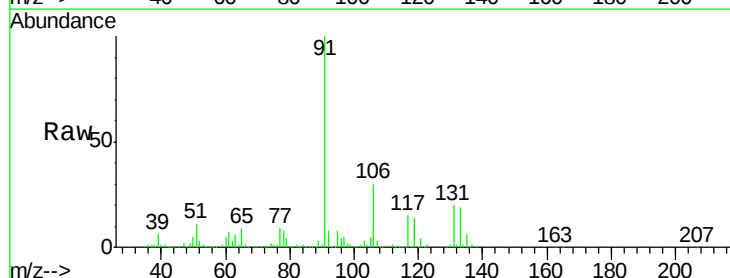
Tgt Ion:131 Resp: 401348

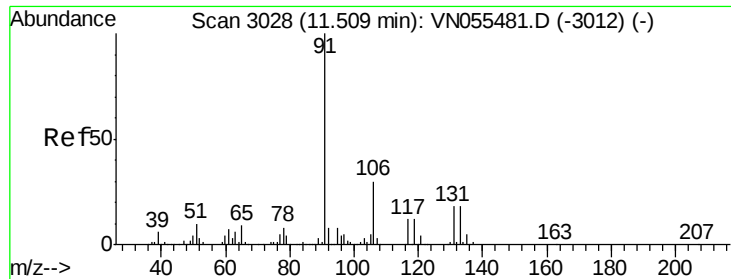
Ion Ratio Lower Upper

131 100

133 96.3 47.4 142.2

119 69.4 34.1 102.2





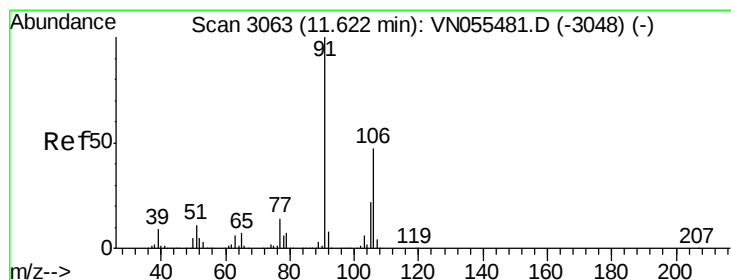
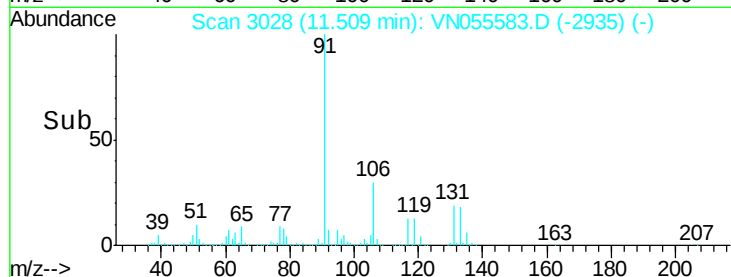
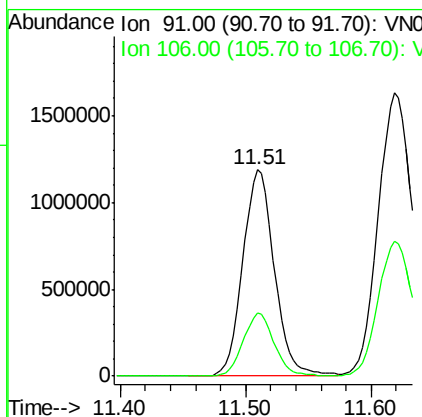
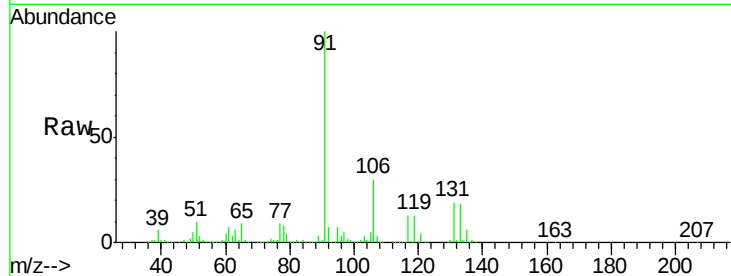
#67
Ethyl Benzene
Concen: 48.919 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 91 Resp: 2090126
Ion Ratio Lower Upper
91 100
106 30.5 23.8 35.6

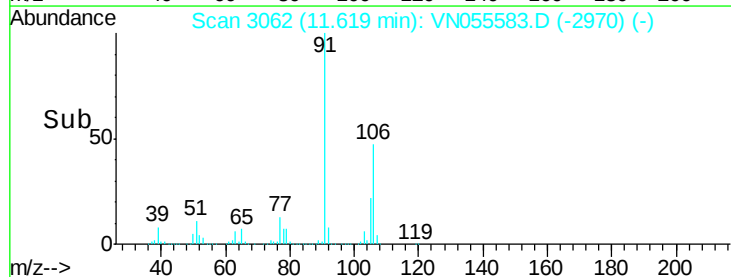
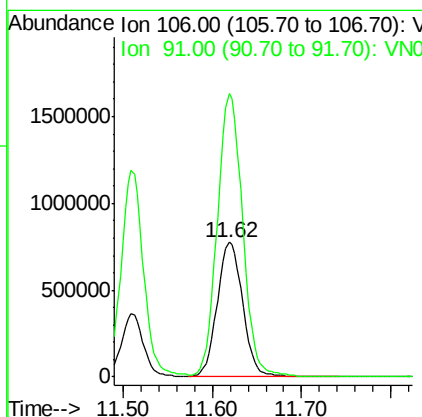
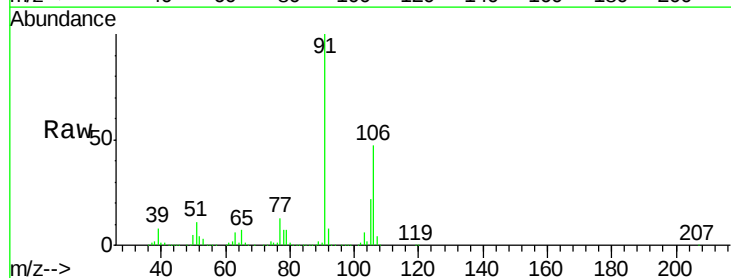
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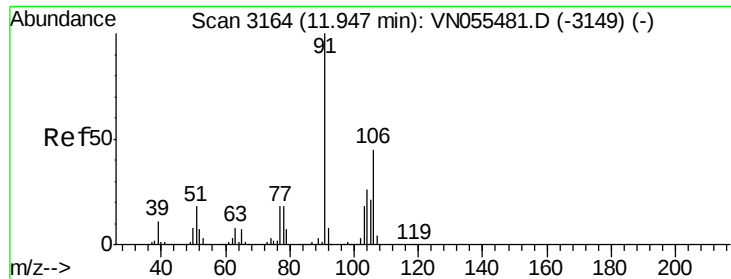
MMDadoda
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#68
m/p-Xylenes
Concen: 100.284 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion: 106 Resp: 1537679
Ion Ratio Lower Upper
106 100
91 209.3 169.2 253.8





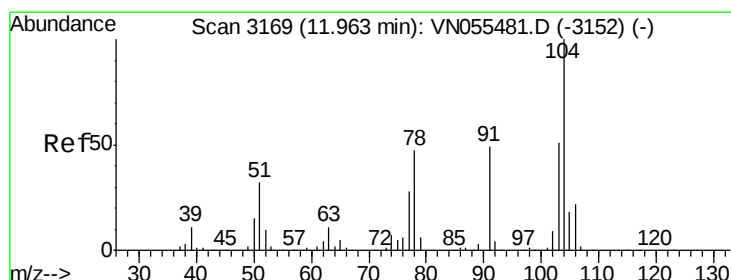
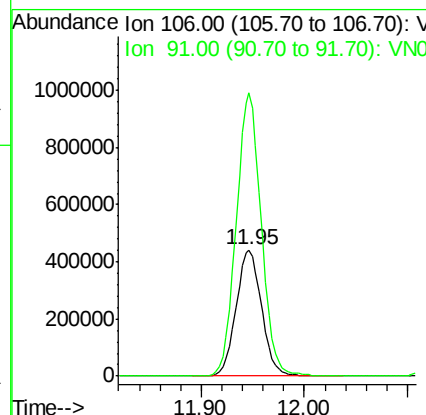
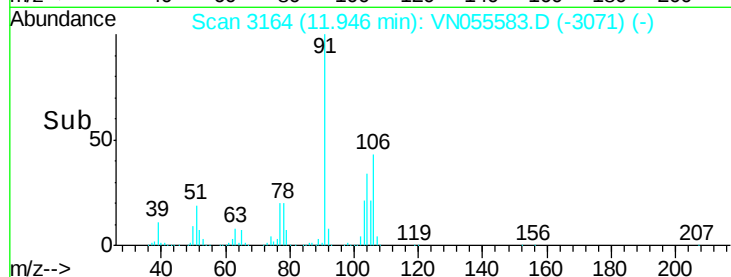
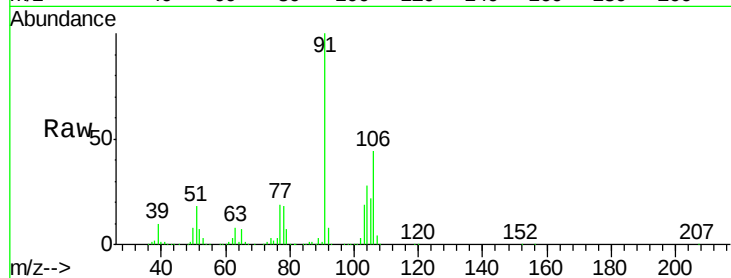
#69
o-Xylene
Concen: 50.402 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 759598
Ion Ratio Lower Upper
106 100
91 220.1 111.3 333.8

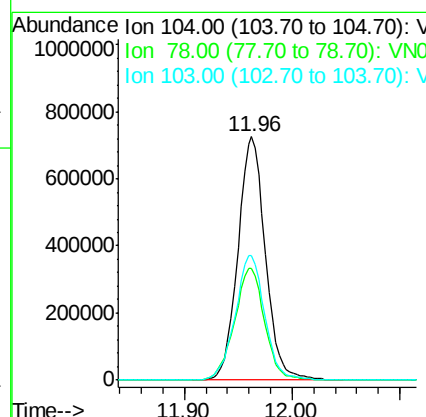
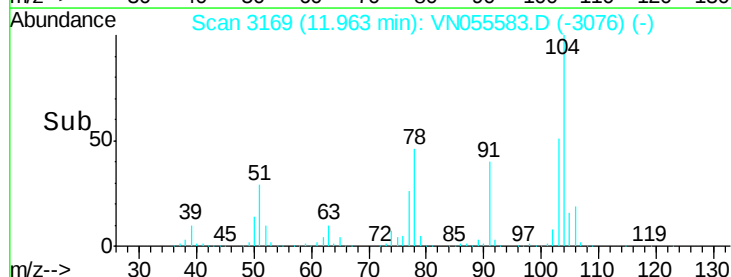
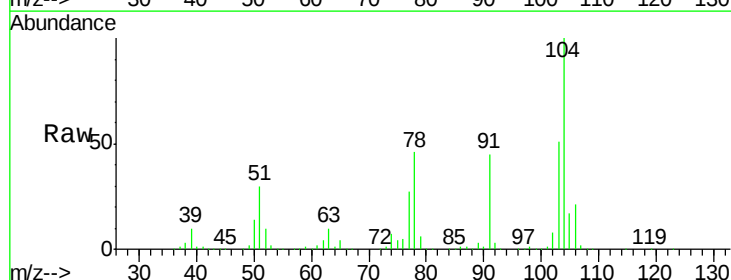
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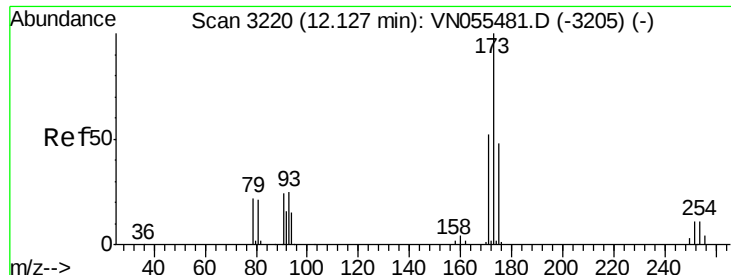
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#70
Styrene
Concen: 53.286 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion:104 Resp: 1286594
Ion Ratio Lower Upper
104 100
78 50.5 41.6 62.4
103 55.3 44.4 66.6





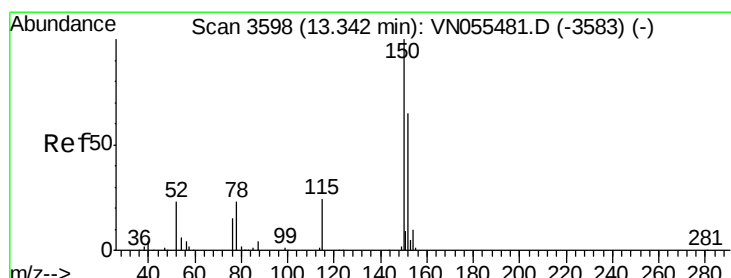
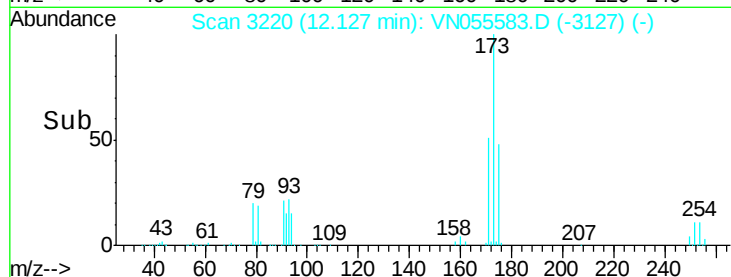
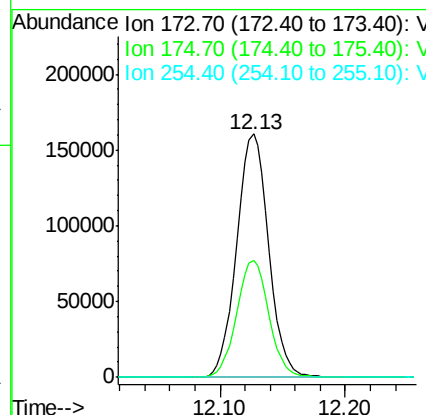
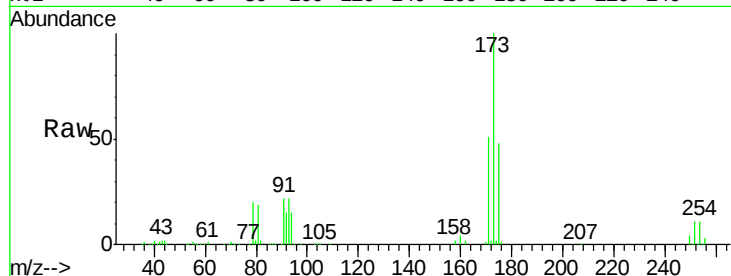
#71
Bromoform
Concen: 53.854 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.1	72.4
254	0.1	0.1	0.1

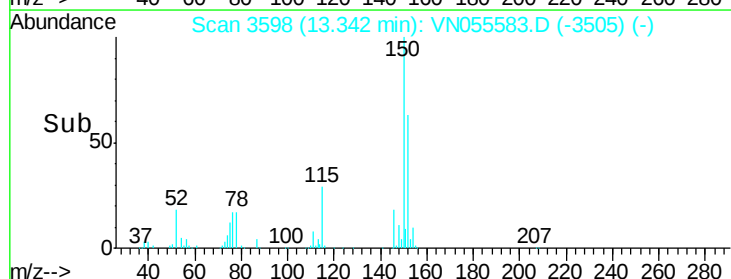
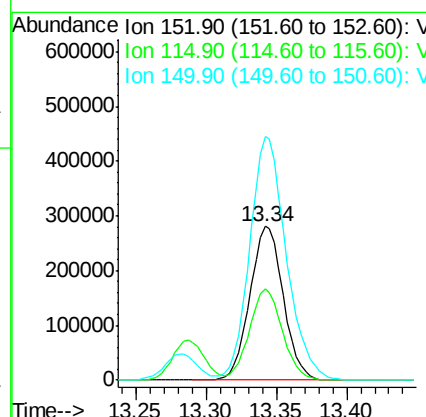
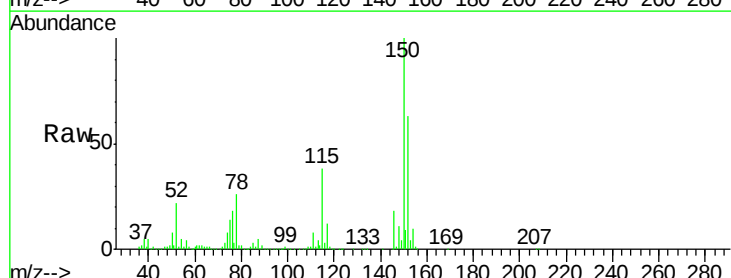
Manual Integrations
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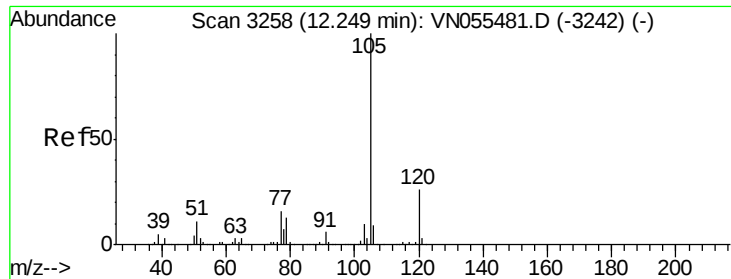
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.7	30.1	90.5
150	172.9	0.0	355.0





#73

Isopropylbenzene

Concen: 52.015 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 1992697

Ion Ratio Lower Upper

105 100

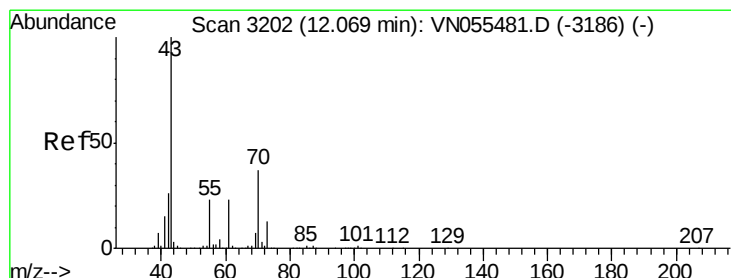
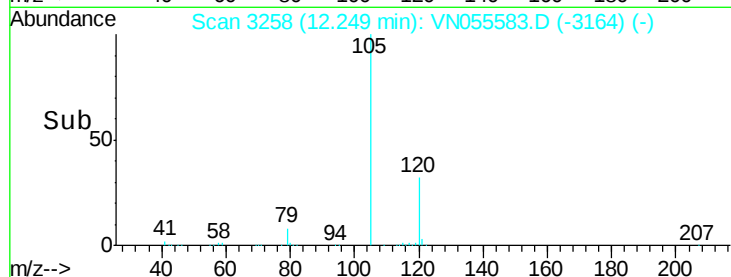
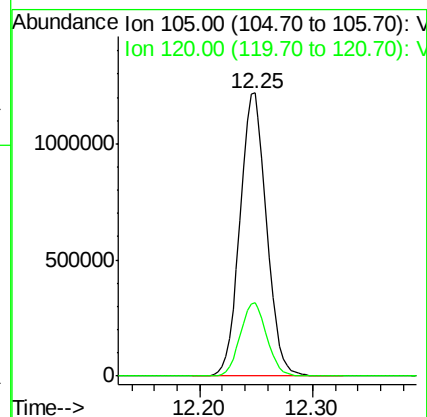
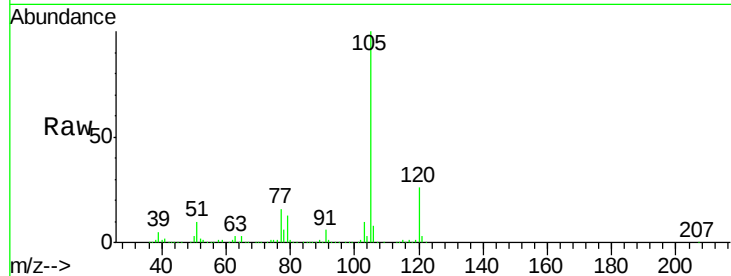
120 25.9 13.0 39.0

Manual Integrations

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#74

N-ethyl acetate

Concen: 45.130 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion: 43 Resp: 797600

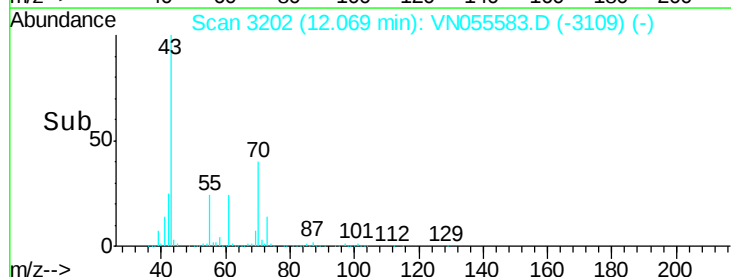
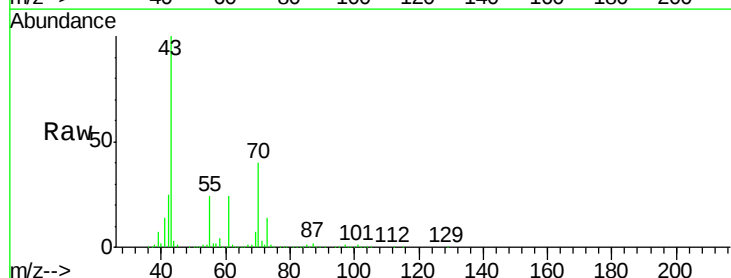
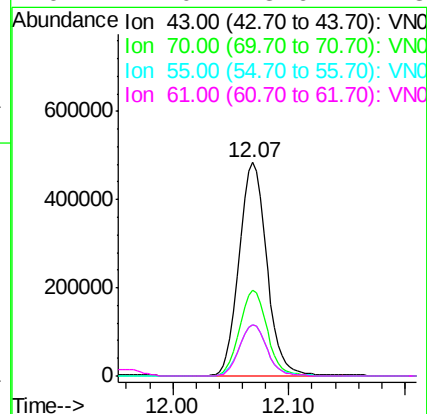
Ion Ratio Lower Upper

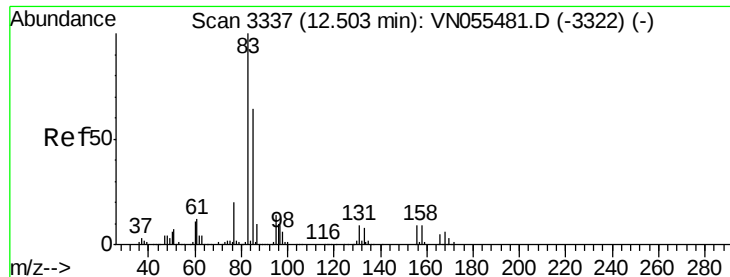
43 100

70 40.3 30.7 46.1

55 24.2 19.3 28.9

61 24.0 18.6 27.8





#75

1,1,2,2-Tetrachloroethane

Concen: 50.019 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

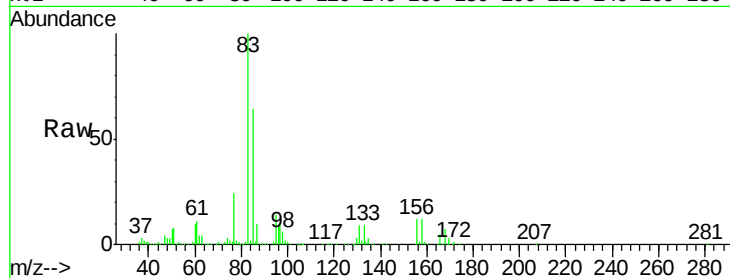
ClientSampleId :

VSTDCCC050EC

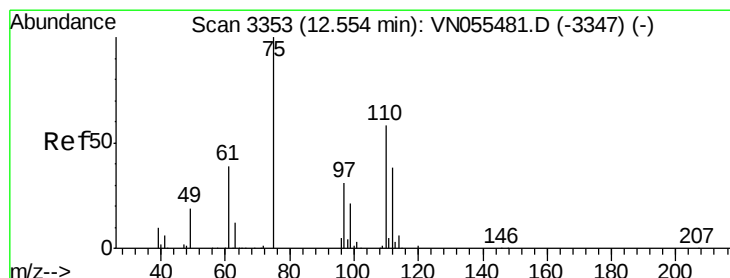
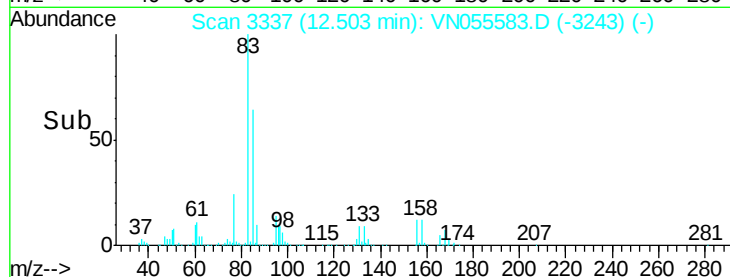
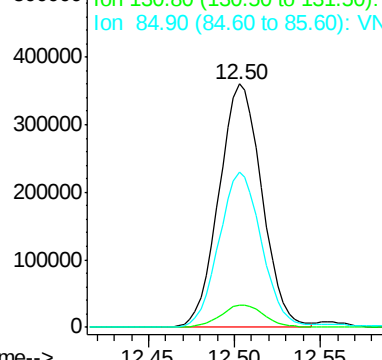
Tot Ion:	83	Resp:	624242
Ion Ratio	Lower	Upper	
83	100		
131	9.4	4.5	13.5
85	63.5	32.0	96.0

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Abundance Ion 82.90 (82.60 to 83.60): VN055583.D (-3243) (-)



#76

1,2,3-Trichloropropane

Concen: 43.137 ug/l m

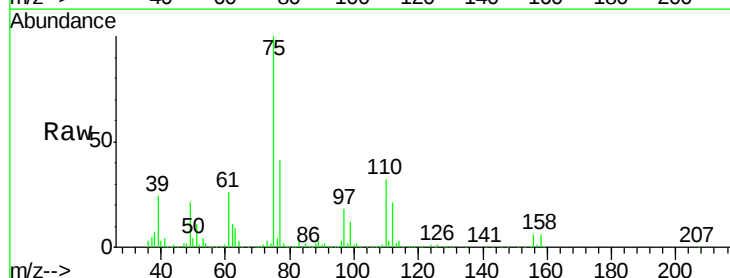
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

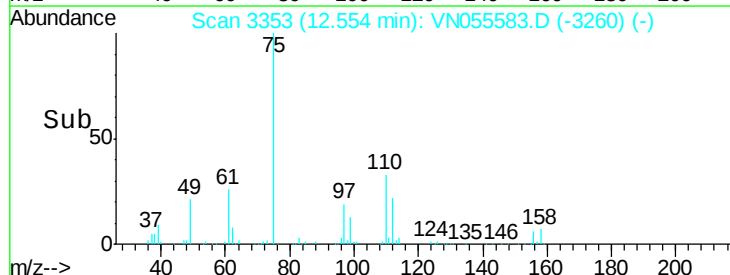
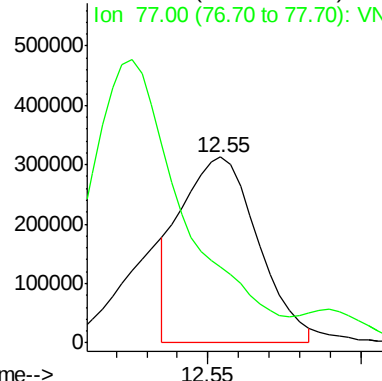
Lab File: VN055583.D

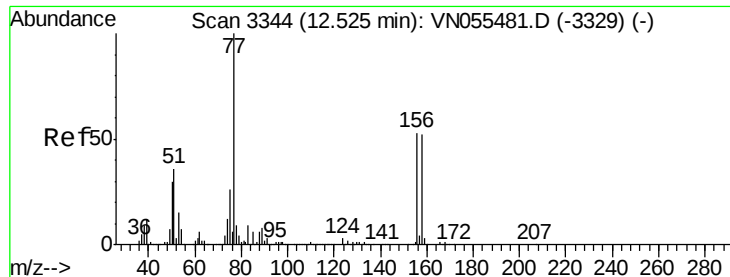
Acq: 13 May 2019 18:41

Tgt Ion:	75	Resp:	546670
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN055583.D (-3260) (-)





#77

Bromobenzene

Concen: 46.584 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

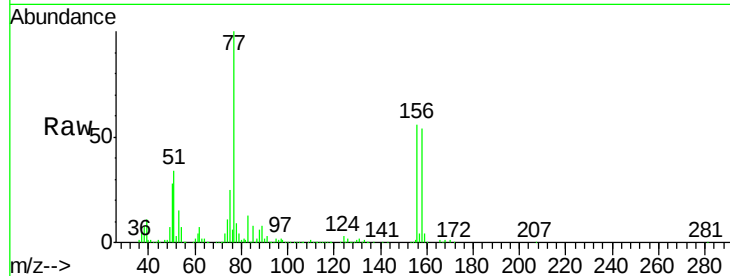
ClientSampleId :

VSTDCCC050EC

Tot Ion:	156	Resp:	477907
Ion Ratio	Lower	Upper	
156	100		
77	215.0	115.4	346.2
158	96.2	48.7	146.1

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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V

600000

500000

400000

300000

200000

100000

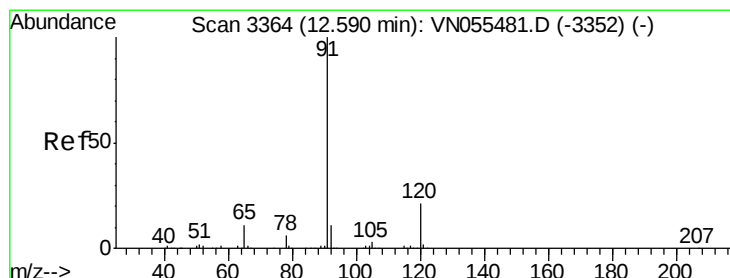
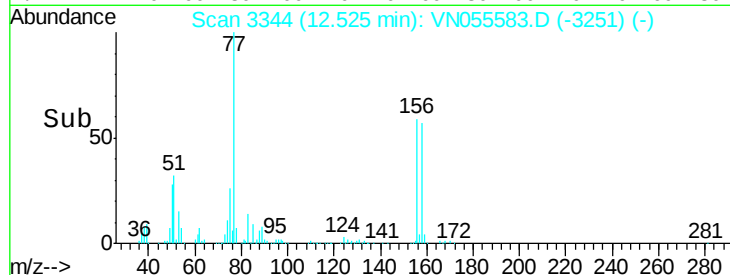
0

12.53

12.50

12.60

Time-->



#78

n-propylbenzene

Concen: 45.436 ug/l

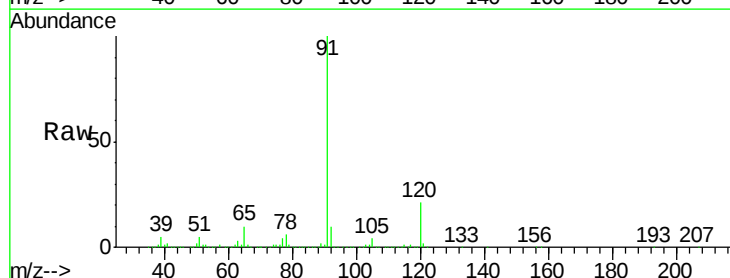
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion:	91	Resp:	2268605
Ion Ratio	Lower	Upper	
91	100		
120	21.8	10.8	32.3



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V

1500000

1000000

500000

0

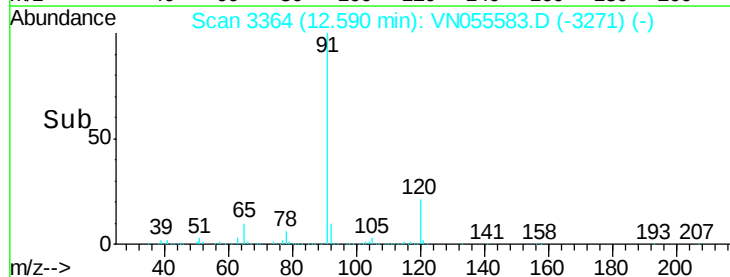
12.59

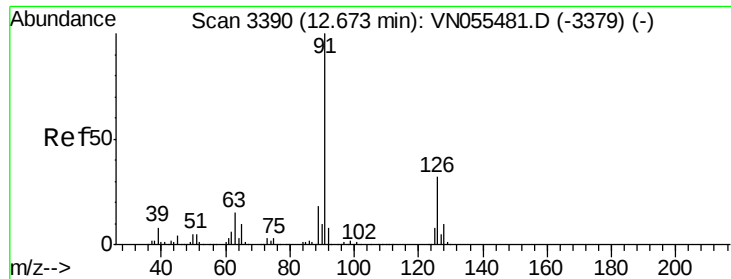
12.55

12.60

12.65

Time-->





#79

2-Chlorotoluene

Concen: 44.312 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 1378834

Ion Ratio Lower Upper

91 100

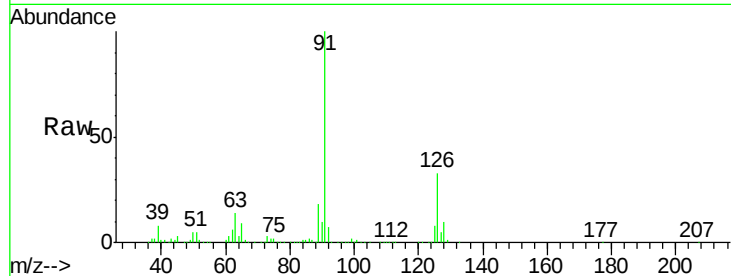
126 33.4 16.0 47.9

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Abundance Ion 91.00 (90.70 to 91.70): VN055481.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN055481.D (-3379) (-)

1000000

800000

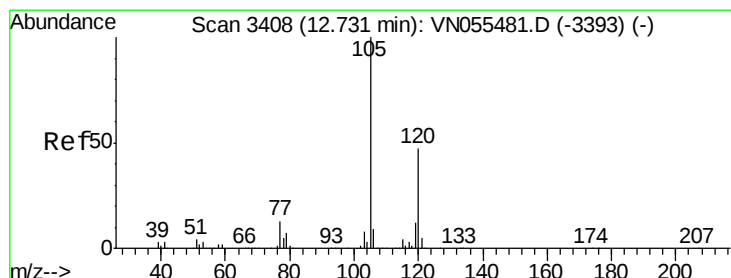
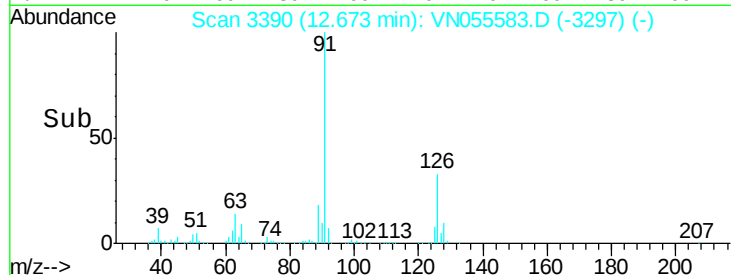
600000

400000

200000

0

Time--> 12.60 12.65 12.70



#80

1,3,5-Trimethylbenzene

Concen: 45.122 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN055583.D

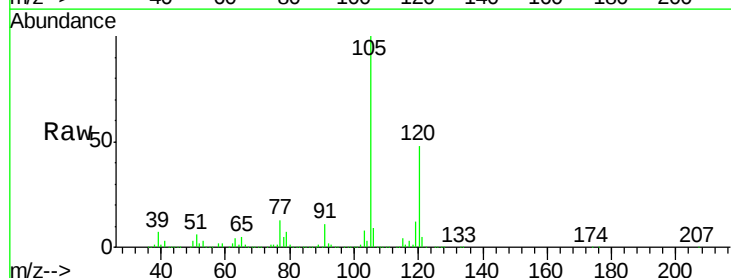
Acq: 13 May 2019 18:41

Tgt Ion:105 Resp: 1679876

Ion Ratio Lower Upper

105 100

120 47.9 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN055481.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN055481.D (-3393) (-)

1200000

1000000

800000

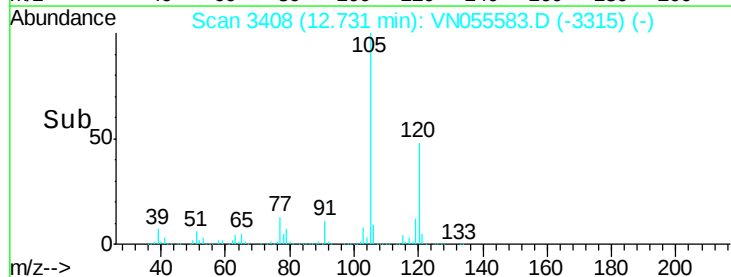
600000

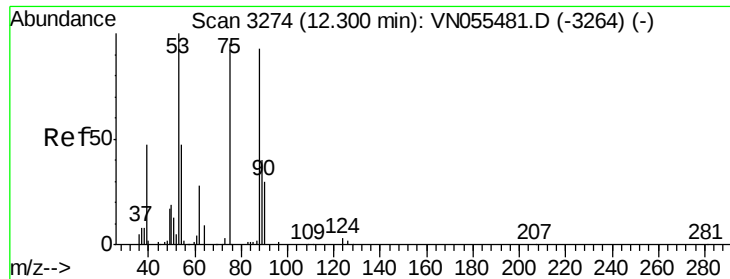
400000

200000

0

Time--> 12.70 12.80





#81

trans-1,4-Dichloro-2-butene

Concen: 45.244 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

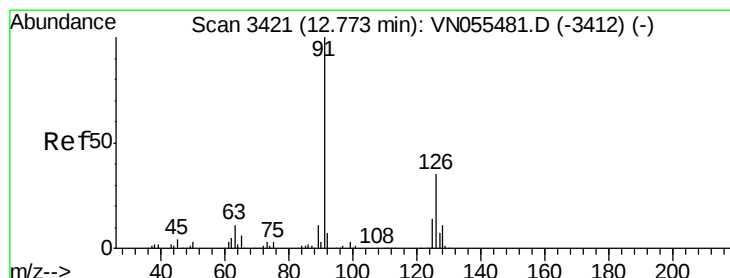
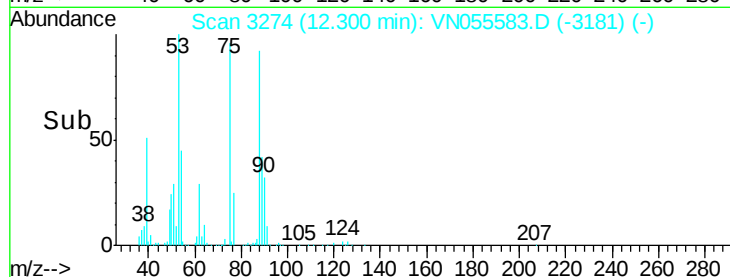
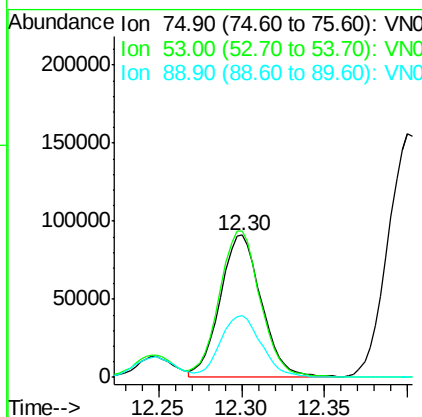
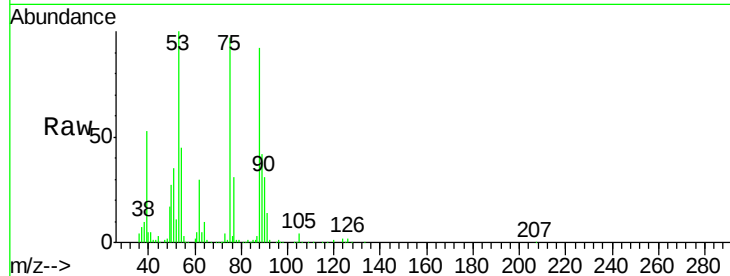
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	155392
Ion Ratio	Lower	Upper	
75	100		
53	104.3	86.5	129.7
89	43.9	35.7	53.5

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#82

4-Chlorotoluene

Concen: 46.341 ug/l

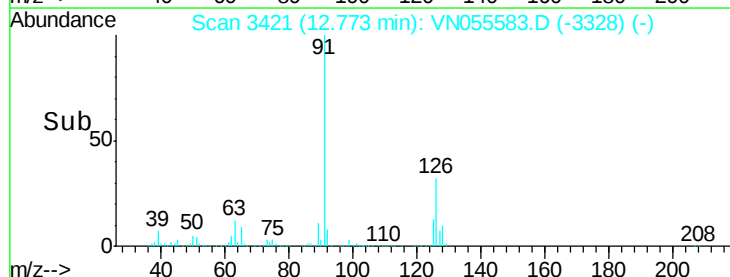
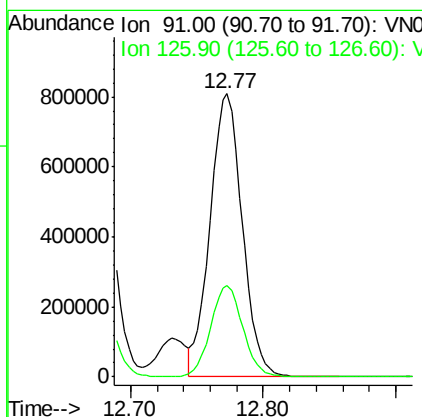
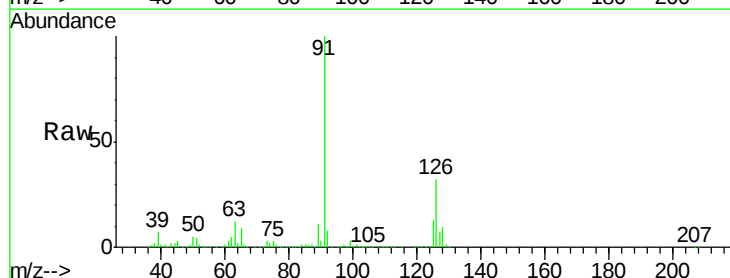
RT: 12.77 min Scan# 3421

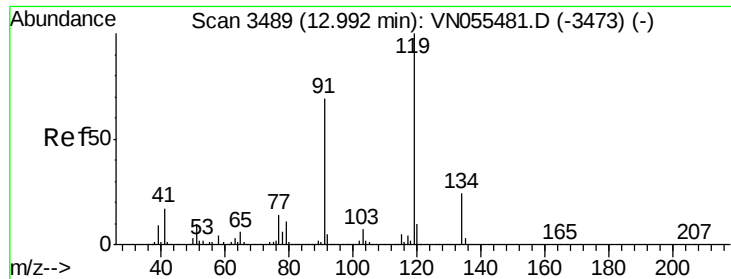
Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion:	91	Resp:	1362531
Ion Ratio	Lower	Upper	
91	100		
126	32.1	15.7	47.0





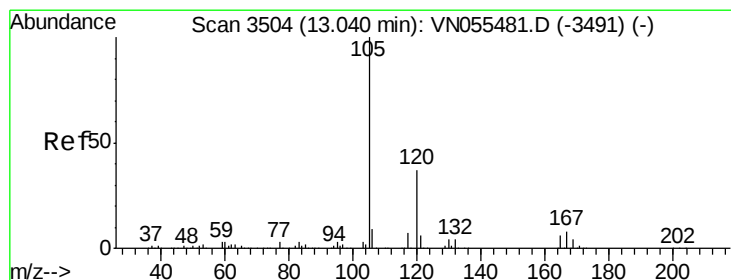
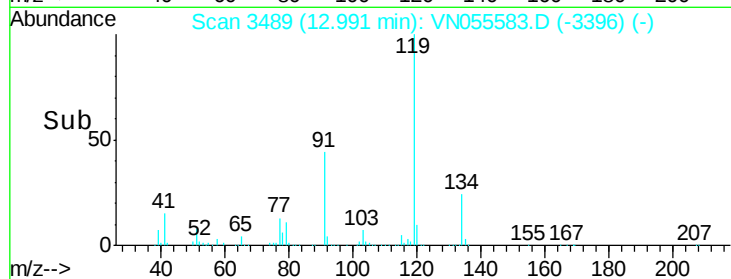
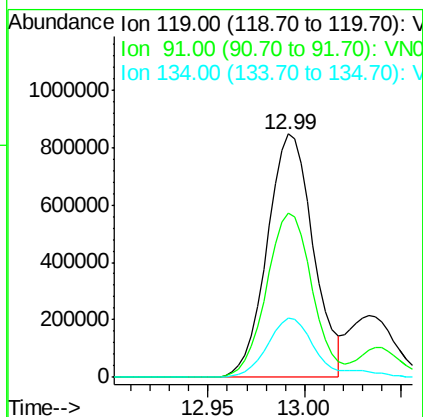
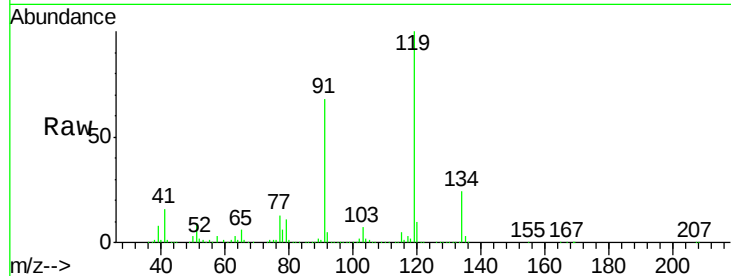
#83
tert-Butylbenzene
Concen: 43.949 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:119 Resp: 1402478
Ion Ratio Lower Upper
119 100
91 66.9 33.8 101.3
134 26.1 12.5 37.5

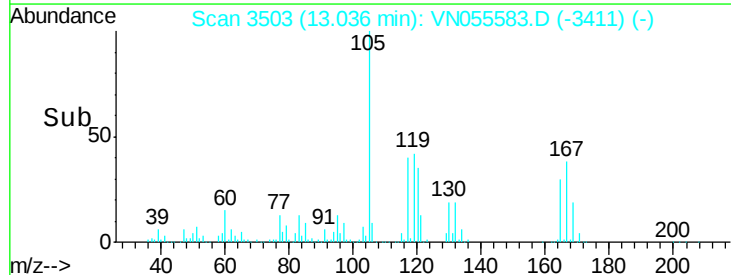
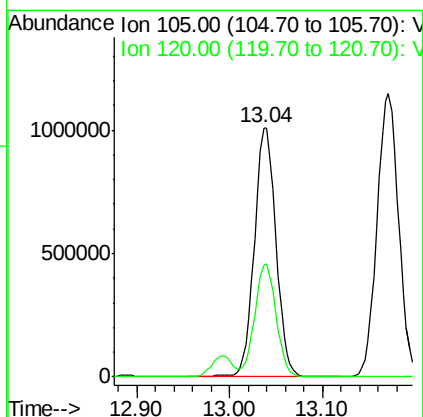
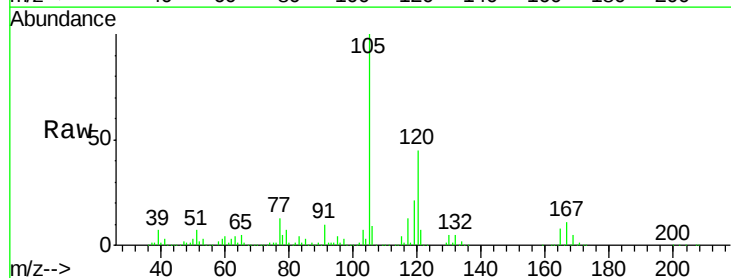
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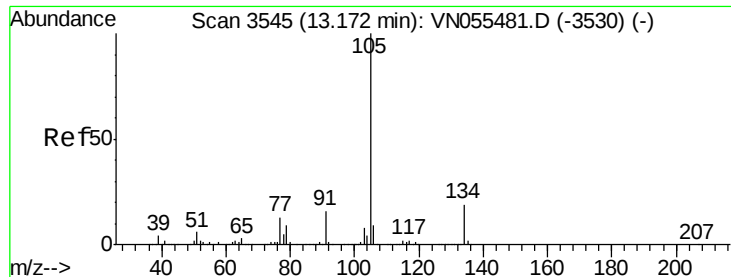
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#84
1,2,4-Trimethylbenzene
Concen: 47.818 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion:105 Resp: 1632729
Ion Ratio Lower Upper
105 100
120 44.7 22.1 66.5





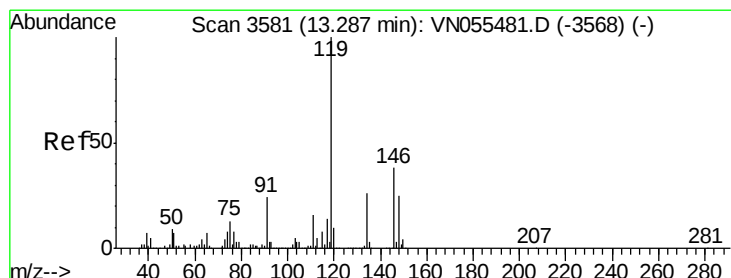
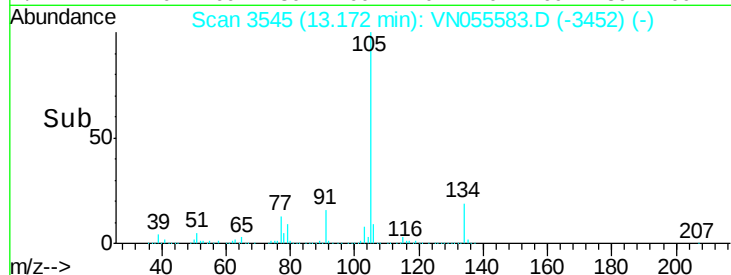
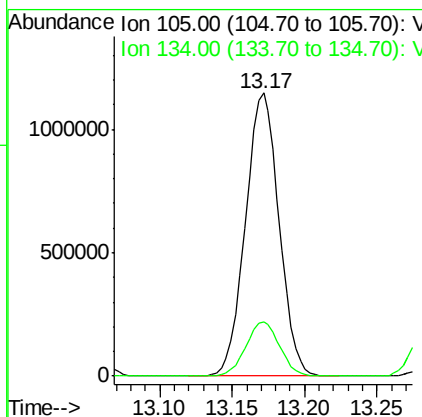
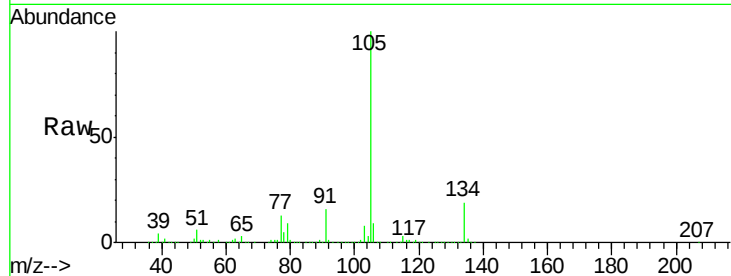
#85
 sec-Butylbenzene
 Concen: 43.503 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:105 Resp: 1844994
 Ion Ratio Lower Upper
 105 100
 134 19.4 9.3 28.0

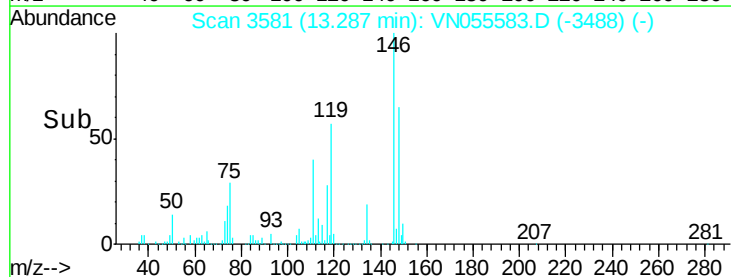
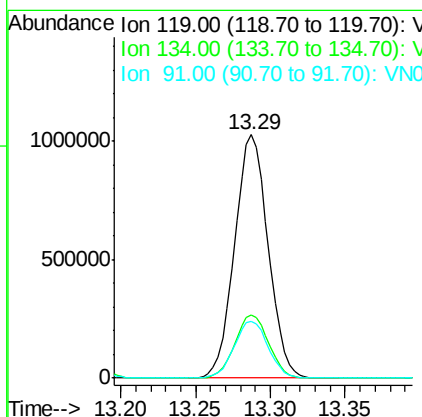
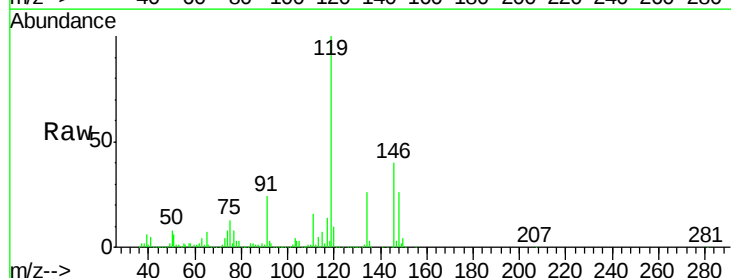
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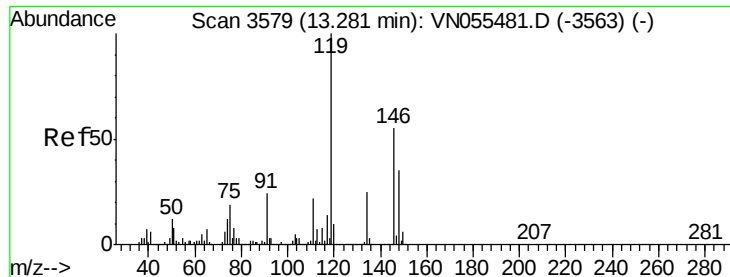
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#86
 p-Isopropyltoluene
 Concen: 46.265 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Tgt Ion:119 Resp: 1596874
 Ion Ratio Lower Upper
 119 100
 134 26.2 12.8 38.4
 91 23.9 12.0 36.0





#87

1,3-Dichlorobenzene

Concen: 49.327 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

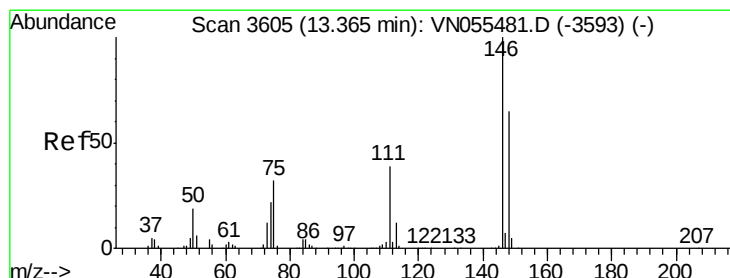
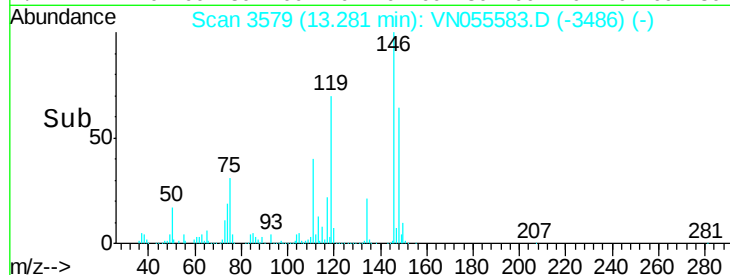
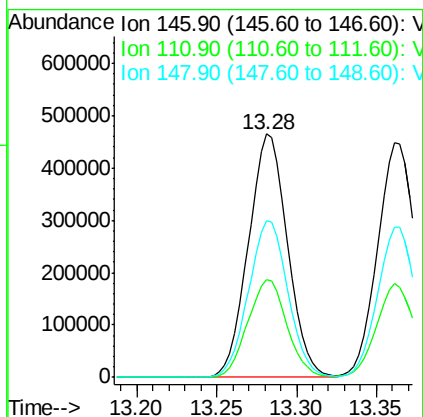
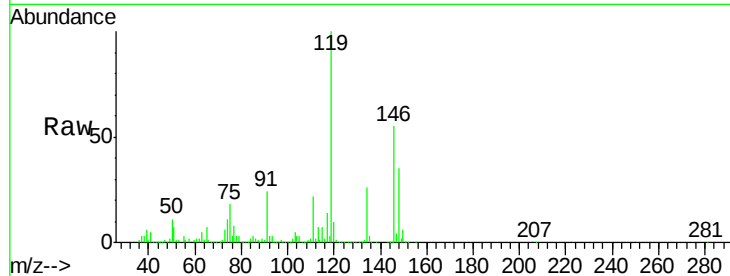
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	781951
Ion Ratio	Lower	Upper	
146	100		
111	40.1	20.4	61.3
148	64.7	32.1	96.5

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#88

1,4-Dichlorobenzene

Concen: 48.518 ug/l

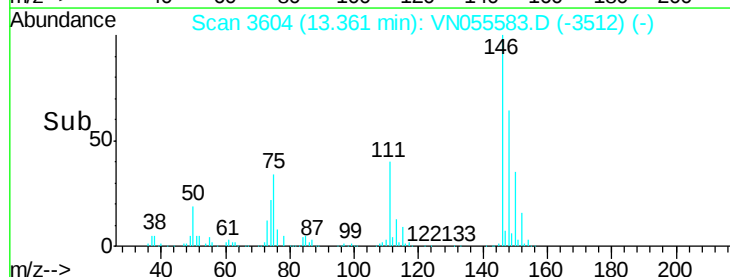
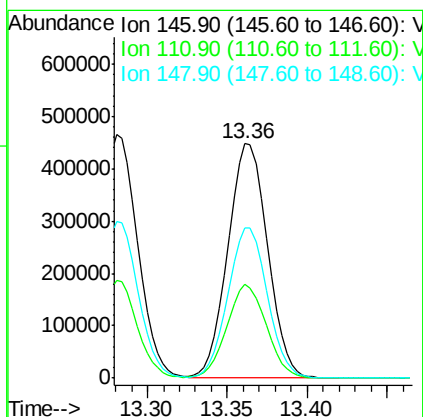
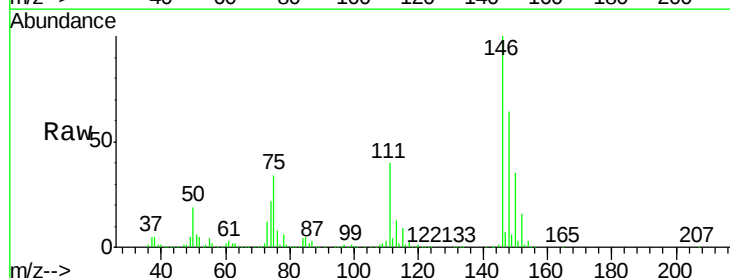
RT: 13.36 min Scan# 3604

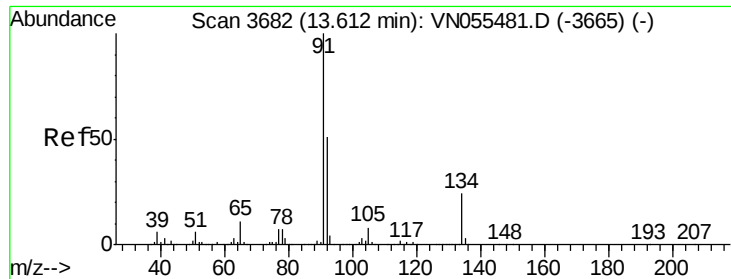
Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion:	146	Resp:	759045
Ion Ratio	Lower	Upper	
146	100		
111	39.4	19.6	58.8
148	63.5	32.5	97.4





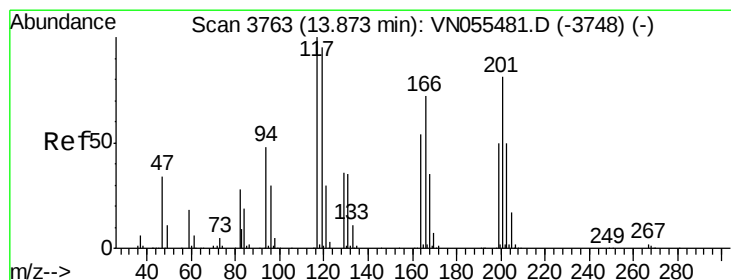
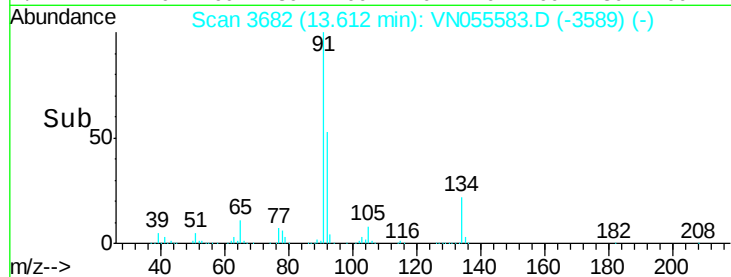
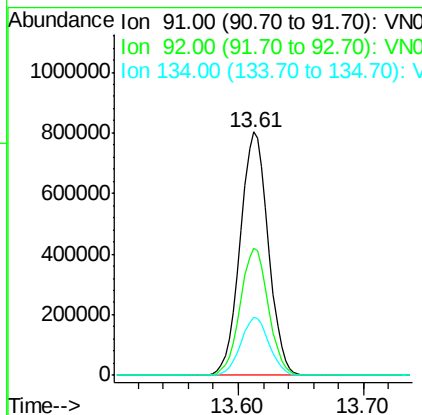
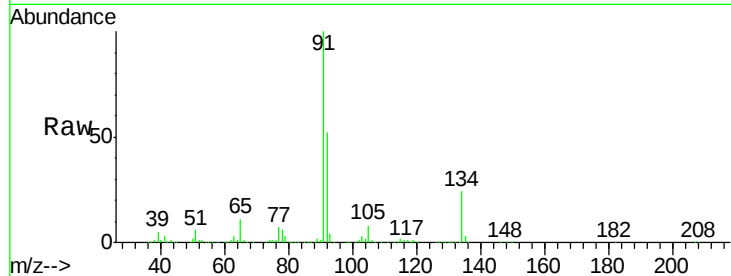
#89
n-Butylbenzene
Concen: 46.689 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.4	25.9	77.7
134	24.2	11.8	35.4

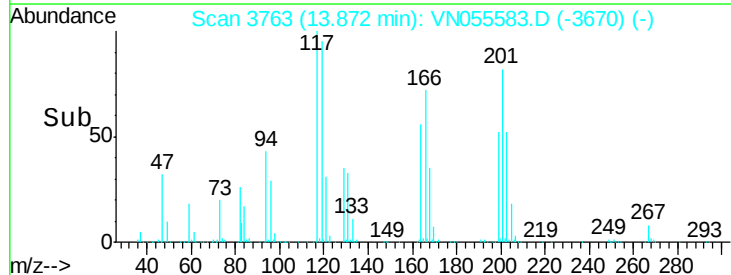
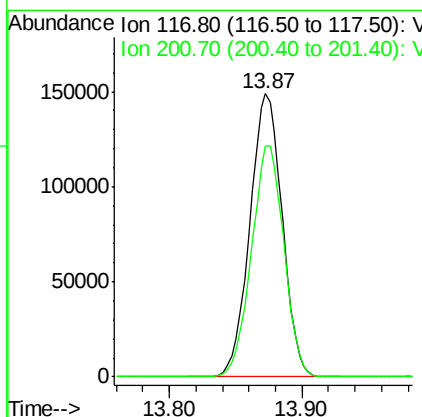
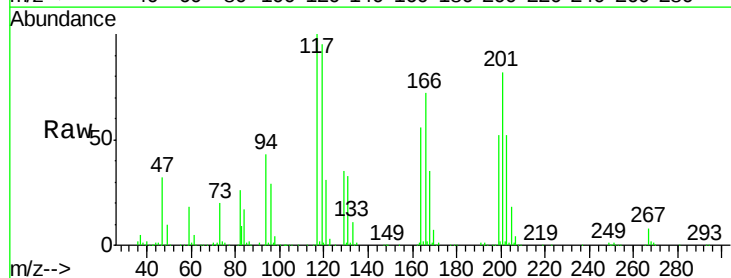
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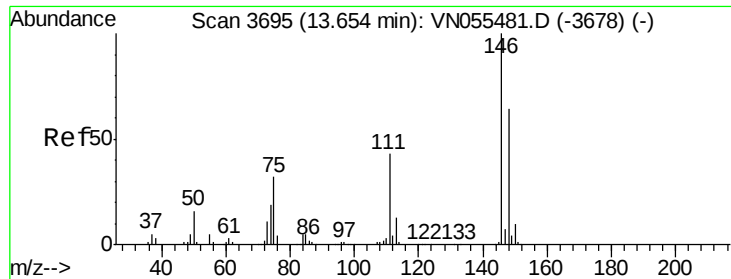
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#90
Hexachloroethane
Concen: 44.681 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN055583.D
Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.1	40.1	120.2





#91

1,2-Dichlorobenzene

Concen: 49.090 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

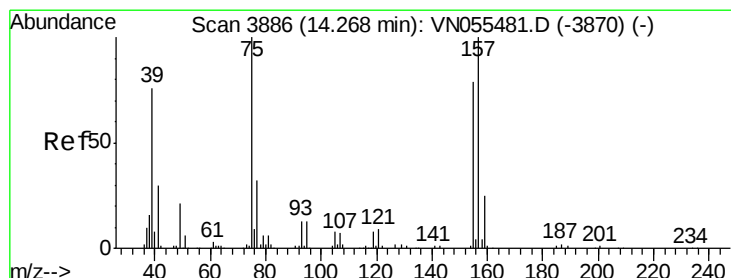
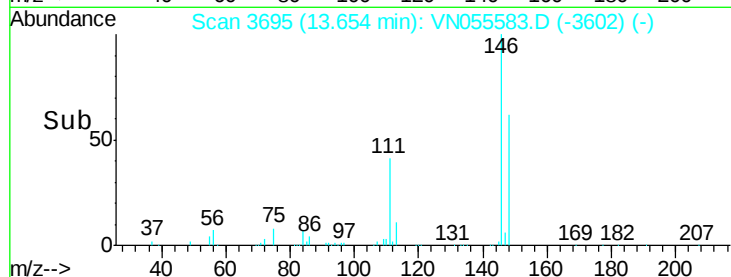
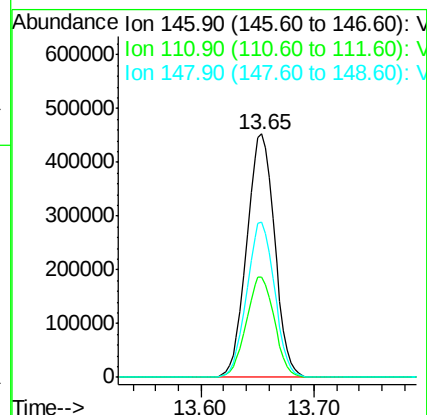
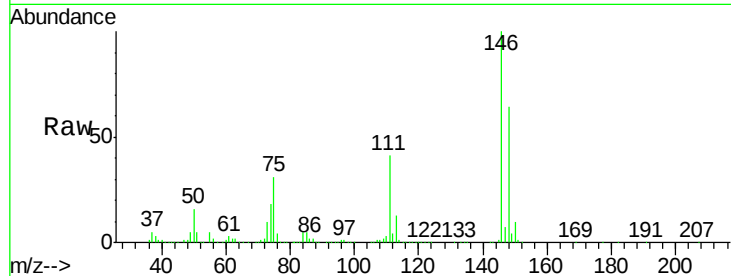
ClientSampleId :

VSTDCCC050EC

Tot Ion:	146	Resp:	777765
Ion Ratio	Lower	Upper	
146	100		
111	41.6	21.3	63.7
148	63.4	31.9	95.9

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 45.028 ug/l

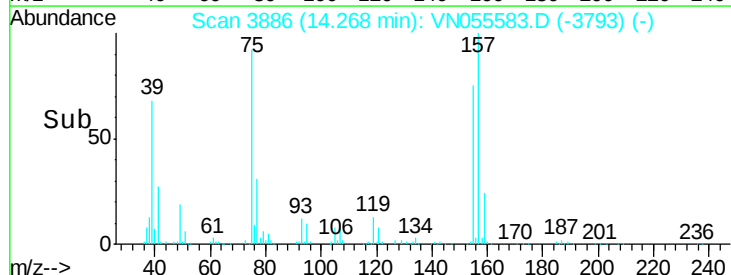
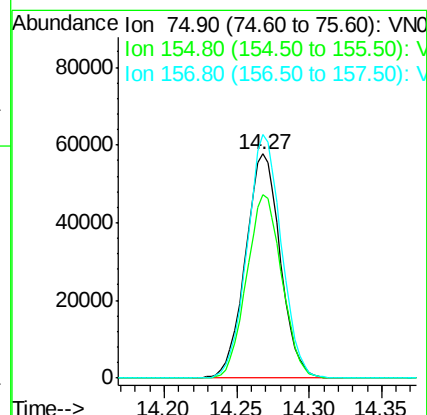
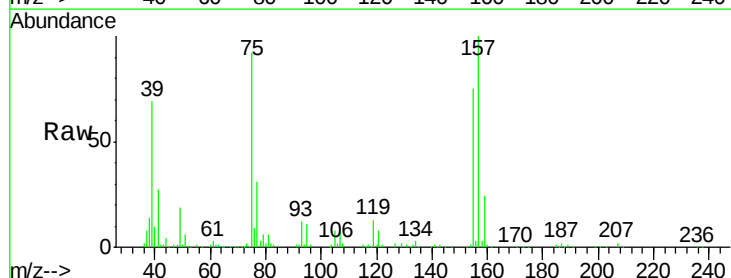
RT: 14.27 min Scan# 3886

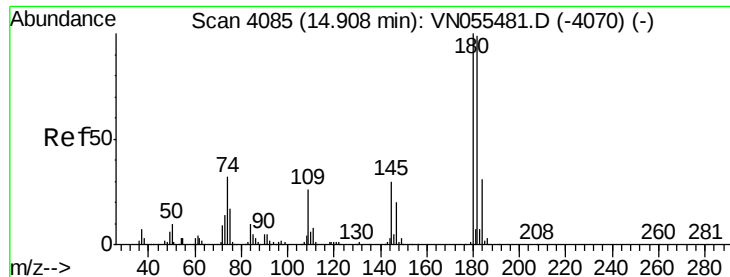
Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion:	75	Resp:	96388
Ion Ratio	Lower	Upper	
75	100		
155	82.4	39.3	117.8
157	106.7	50.6	151.8





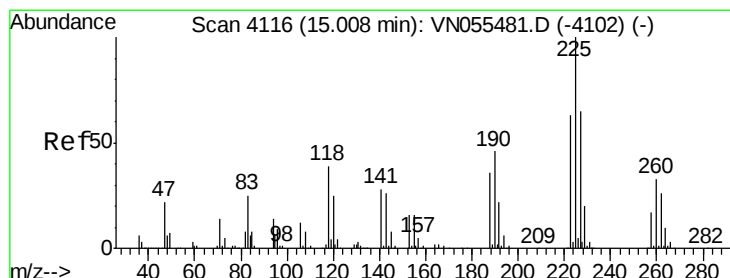
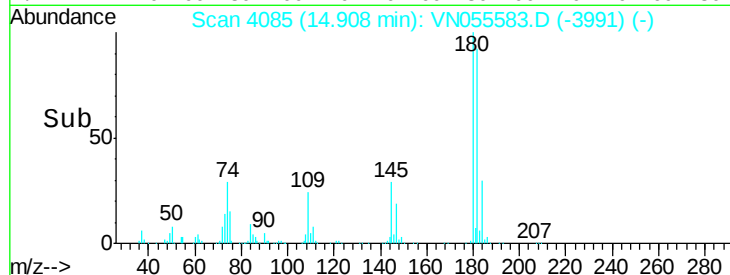
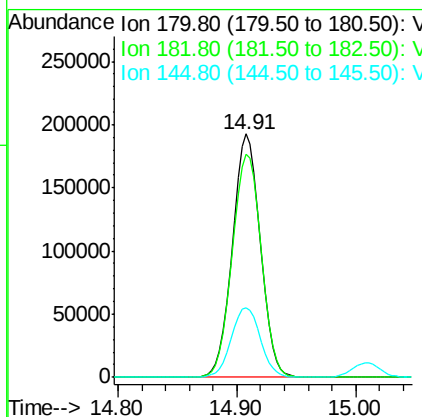
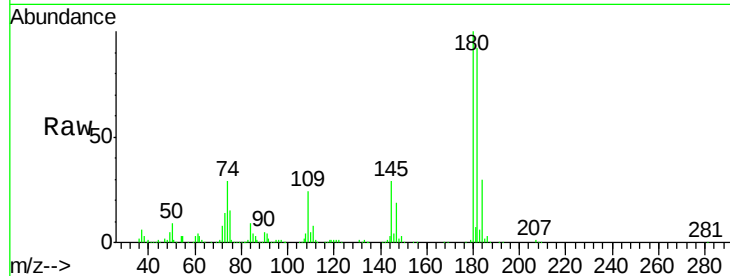
#93
 1,2,4-Trichlorobenzene
 Concen: 45.625 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	312674		
182	95.3	48.7	146.1	
145	29.9	15.3	45.9	

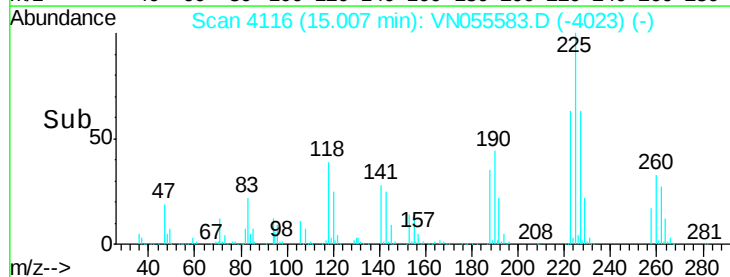
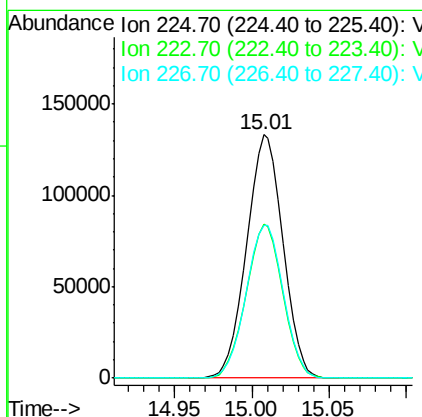
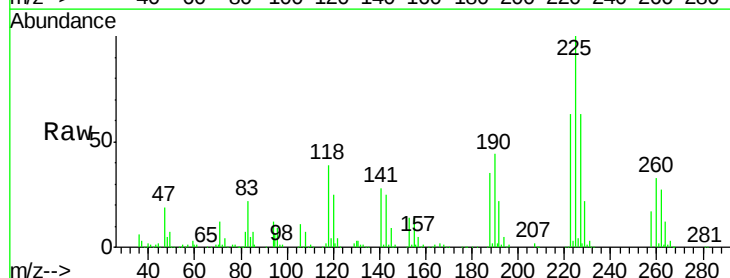
Manual Integrations
 APPROVED

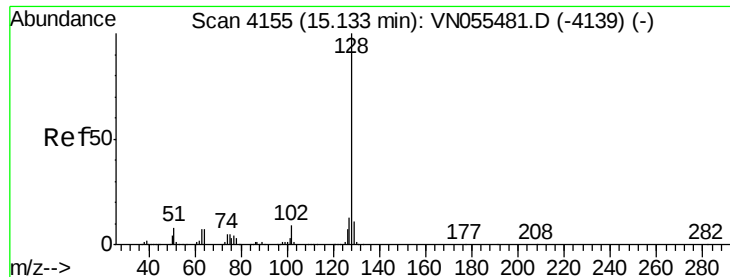
MMDadoda
 5/14/2019 9:43:12 AM



#94
 Hexachlorobutadiene
 Concen: 46.302 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055583.D
 Acq: 13 May 2019 18:41

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	217900		
223	63.8	31.4	94.3	
227	64.6	32.0	96.0	





#95

Naphthalene

Concen: 45.812 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Instrument :

MSVOA_N

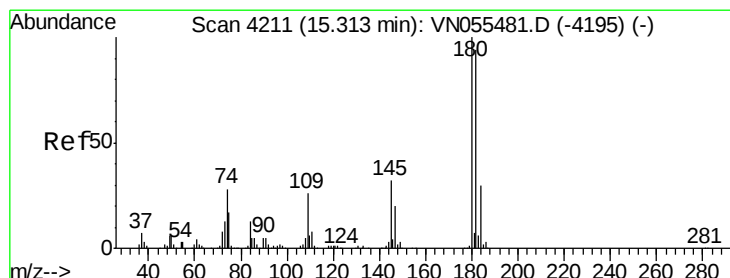
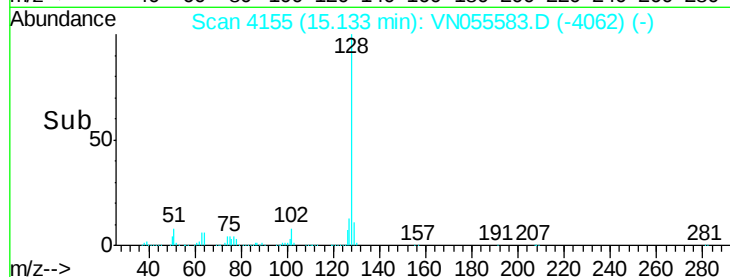
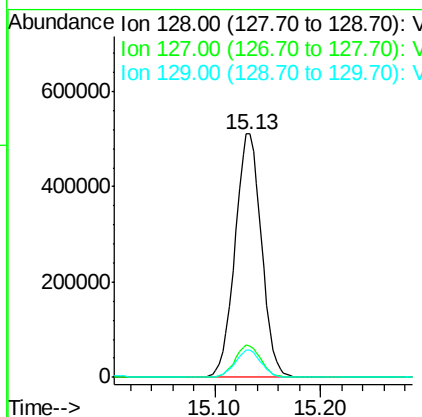
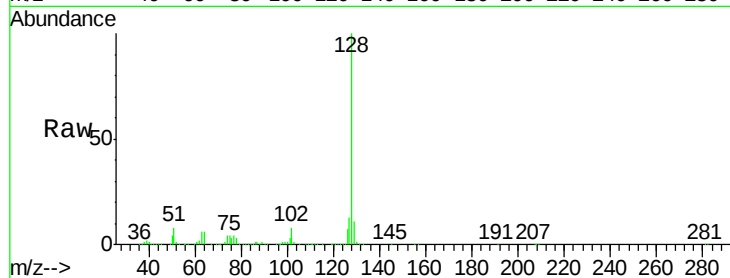
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	884106
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.0	15.0
129	10.9	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:43:12 AM



#96

1,2,3-Trichlorobenzene

Concen: 46.281 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN055583.D

Acq: 13 May 2019 18:41

Tgt Ion:	180	Resp:	344310
Ion Ratio	Lower	Upper	
180	100		
182	95.2	47.1	141.3
145	32.1	15.8	47.4

