

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082719\
 Data File : VN057548.D
 Acq On : 27 Aug 2019 12:00
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/28/2019 4:26:49 PM

Quant Time: Aug 27 12:35:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	61214	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	354470	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	294572	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	175708	29.77	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.23%
60) 4-Bromofluorobenzene	12.40	95	141098	29.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.83%
63) Toluene-d8	10.09	98	457029	30.72	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	66866	20.880	ug/l 98
3) Chloromethane	2.05	50	100960	20.994	ug/l 99
4) Vinyl Chloride	2.17	62	129081	21.129	ug/l 98
5) Bromomethane	2.55	94	78579	19.882	ug/l 92
6) Chloroethane	2.69	64	79523	19.433	ug/l 99
7) Trichlorofluoromethane	3.00	101	196686	20.241	ug/l 94
8) Diethyl Ether	3.39	74	72438	19.405	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.73	101	66444	12.141	ug/l 99
10) 1,1-Dichloroethene	3.71	96	61227	11.588	ug/l 95
11) Methyl Iodide	3.92	142	87244	18.369	ug/l 99
12) Methyl Acetate	4.31	43	106733	20.053	ug/l 95
13) Acrolein	3.58	56	61652	91.078	ug/l 99
14) Acrylonitrile	4.97	53	183835	99.420	ug/l 98
15) Acetone	3.80	58	50865	58.804	ug/l 90
16) Carbon Disulfide	4.02	76	188663	20.047	ug/l 100
17) Allyl chloride	4.30	41	145675	20.210	ug/l 98
18) Methylene Chloride	4.52	84	86385	22.294	ug/l 96
19) trans-1,2-Dichloroethene	5.01	96	77458	21.228	ug/l 98
20) Diisopropyl ether	5.93	45	306953	19.947	ug/l 99
21) 1,1-Dichloroethane	5.83	63	163065	20.392	ug/l 98
22) cis-1,2-Dichloroethene	6.81	96	91812	20.687	ug/l 99
23) tert-Butyl Alcohol	4.78	59	64869	96.577	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	255807	20.955	ug/l 99
25) Chloroform	7.36	83	168276	21.196	ug/l 98
26) Cyclohexane	7.63	56	143591	20.166	ug/l # 98
29) 1,1-Dichloropropene	7.78	75	121451	20.160	ug/l 100
30) 2-Butanone	6.82	43	273241	94.338	ug/l 98
31) 2,2-Dichloropropane	6.80	77	137753	20.013	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	140712	20.432	ug/l 98
33) Carbon Tetrachloride	7.76	117	110921	19.396	ug/l 95
34) Benzene	8.03	78	363821	20.537	ug/l 99
35) Methacrylonitrile	7.16	41	53048	18.097	ug/l 97
36) 1,2-Dichloroethane	8.11	62	142046m	20.454	ug/l
37) Trichloroethene	8.82	130	81642	20.200	ug/l 100
38) Methylcyclohexane	9.07	83	132706	19.626	ug/l 99
39) 1,2-Dichloropropane	9.11	63	101550	20.160	ug/l 92
40) Dibromomethane	9.20	93	64768	21.039	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	124980	19.142	ug/l	92
42) Vinyl Acetate	5.87	43	1204629	92.938	ug/l	99
43) Ethyl Acetate	6.91	43	110735	19.641	ug/l	96
44) Isopropyl Acetate	8.16	43	200902	18.667	ug/l #	93
45) 1,4-Dioxane	9.19	88	26434	408.627	ug/l	90
46) Methyl methacrylate	9.19	41	92787	18.154	ug/l	97
47) n-amyl Acetate	12.07	43	144304	16.660	ug/l	92
48) t-1,3-Dichloropropene	10.38	75	121222	17.575	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	142132	18.748	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	83067	20.578	ug/l	97
51) Ethyl methacrylate	10.43	69	124662	18.577	ug/l	99
52) 1,3-Dichloropropane	10.71	76	145260	19.737	ug/l	98
53) Dibromochloromethane	10.90	129	76835	17.854	ug/l	99
54) 1,2-Dibromoethane	11.00	107	80379	19.460	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	160241	96.873	ug/l	97
56) Bromoform	12.13	173	41562	16.182	ug/l #	100
58) 4-Methyl-2-Pentanone	9.98	43	581730	100.666	ug/l	99
59) 2-Hexanone	10.75	43	390241	97.427	ug/l	99
61) Tetrachloroethene	10.63	164	74476	22.046	ug/l	94
62) Toluene	10.15	91	373574	20.750	ug/l	100
64) Chlorobenzene	11.43	112	204463	20.890	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	73227	19.687	ug/l	99
66) Ethyl Benzene	11.51	91	394238	20.461	ug/l	100
67) m/p-Xylenes	11.62	106	273034	40.855	ug/l	99
68) o-Xylene	11.95	106	132378	20.044	ug/l	94
69) Styrene	11.96	104	209128	19.822	ug/l	98
70) Isopropylbenzene	12.25	105	358762	20.306	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	107007	20.944	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	93266m	20.109	ug/l	
73) Bromobenzene	12.53	156	71746	20.063	ug/l	97
74) n-propylbenzene	12.59	91	393681	19.541	ug/l	99
75) 2-Chlorotoluene	12.68	91	236967	19.972	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	296515	20.450	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	27205	16.357	ug/l	89
78) 4-Chlorotoluene	12.77	91	218409	19.482	ug/l	99
79) tert-butylbenzene	12.99	119	251290	20.367	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	278178	20.579	ug/l	98
81) sec-Butylbenzene	13.17	105	322058	19.809	ug/l	98
82) p-Isopropyltoluene	13.29	119	261661	19.143	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	104031	18.687	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	101964	18.827	ug/l	99
85) n-Butylbenzene	13.62	91	214495	18.000	ug/l	96
86) Hexachloroethane	13.88	117	47556	17.243	ug/l	97
87) 1,2-Dichlorobenzene	13.66	146	108380	19.823	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15185	17.710	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	29174	14.241	ug/l	97
90) Hexachlorobutadiene	15.01	225	32998	20.951	ug/l	95
91) Naphthalene	15.13	128	94984	19.359	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	29644	14.470	ug/l	93

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QLast Update : Fri Aug 23 23:15:31 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

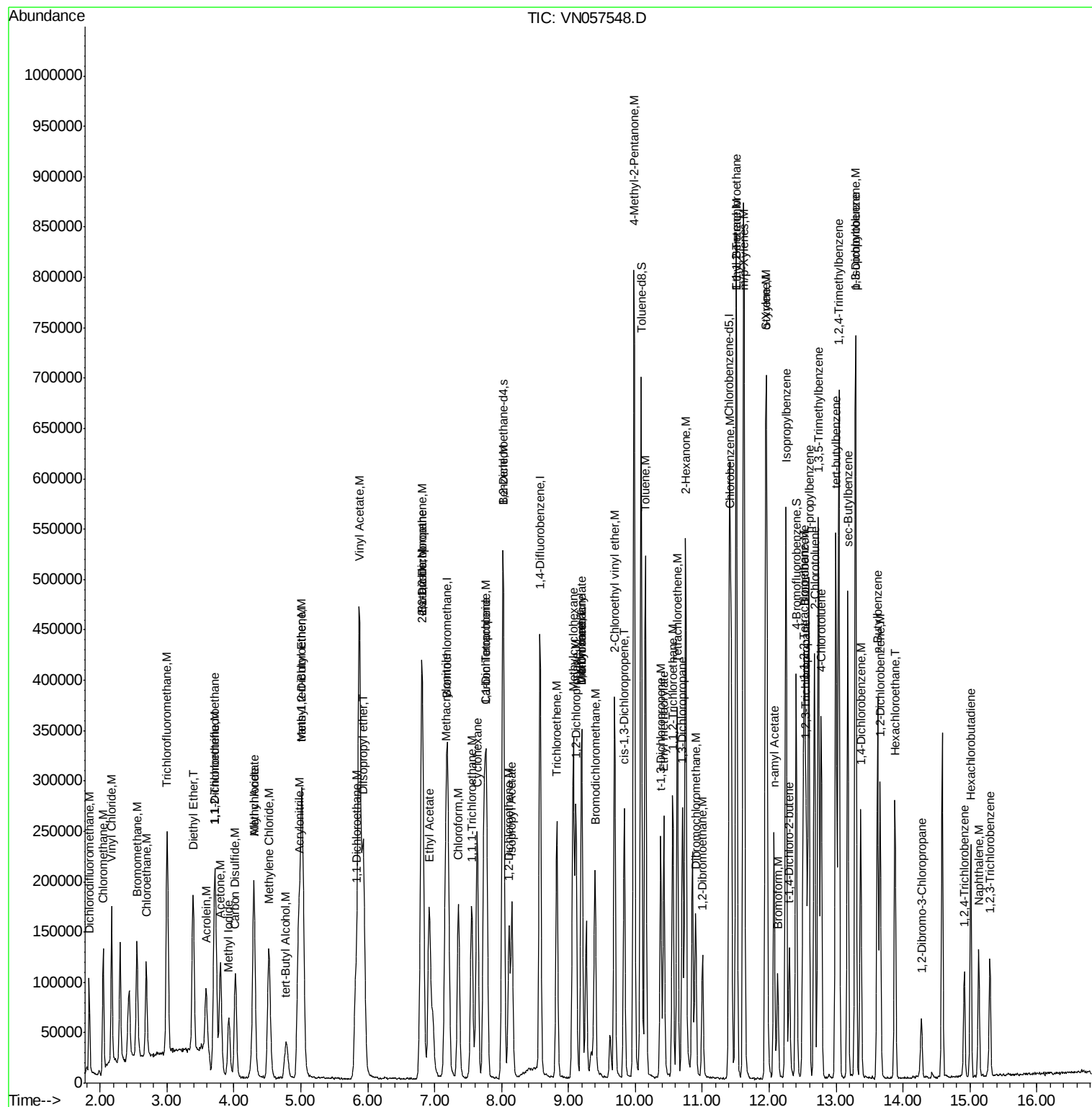
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Data File : VN057548.D
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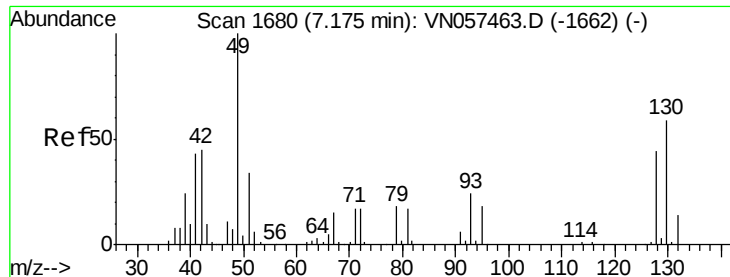
Instrument :
MSVOA_N
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VSTDCCC020EC

Manual Integrations
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:128 Resp: 61214

Ion Ratio Lower Upper

128 100

49 213.0 0.0 560.5

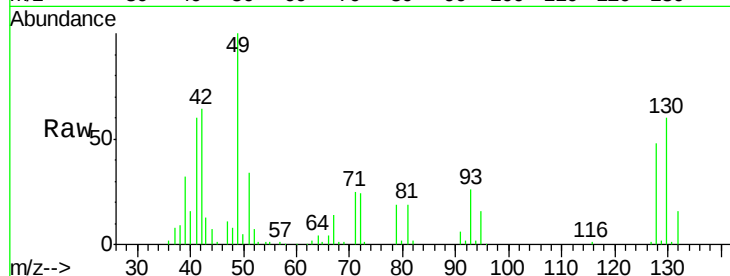
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Manual Integrations

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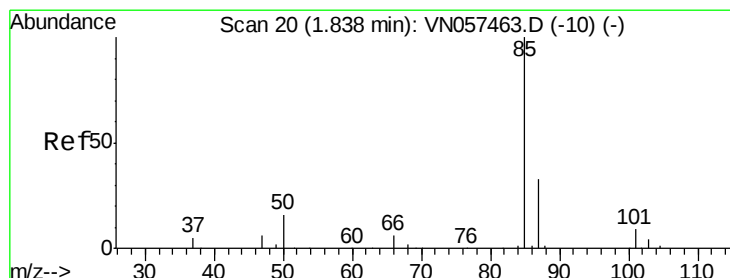
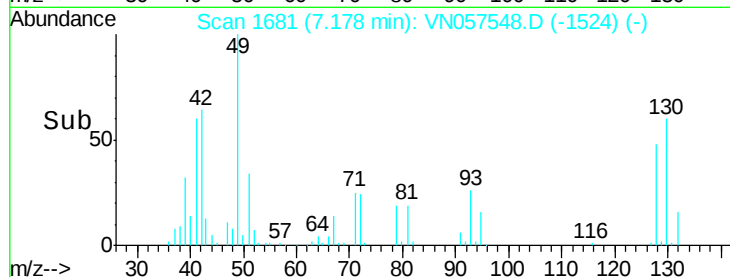
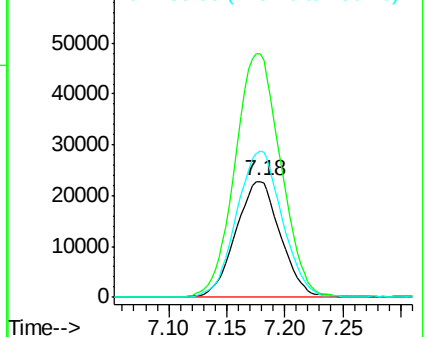
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 20.880 ug/l

RT: 1.84 min Scan# 21

Delta R.T. 0.00 min

Lab File: VN057548.D

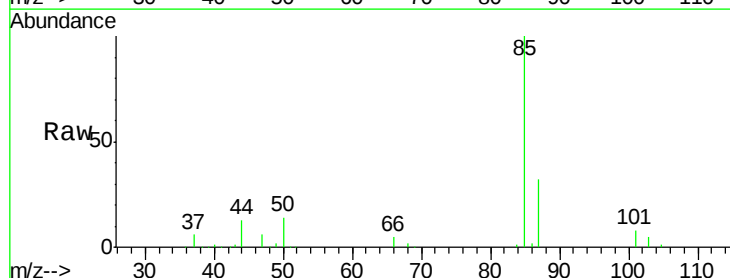
Acq: 27 Aug 2019 12:00

Tgt Ion: 85 Resp: 66866

Ion Ratio Lower Upper

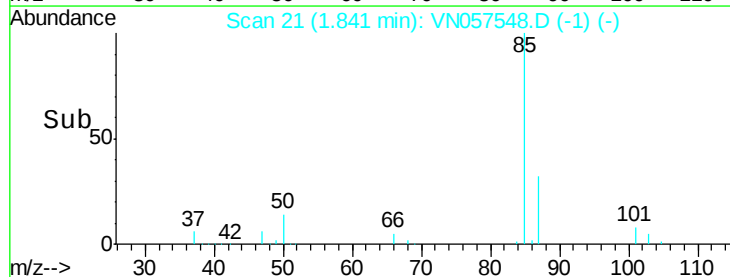
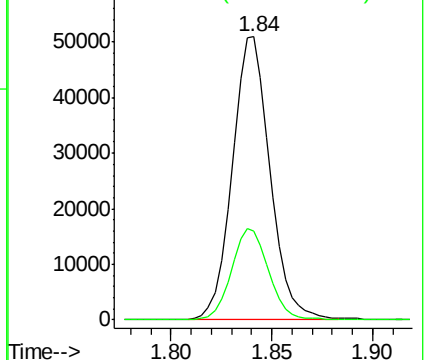
85 100

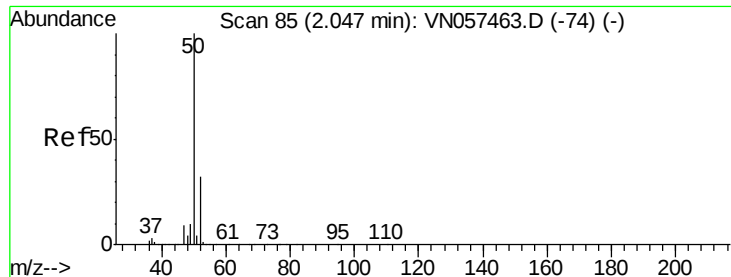
87 31.5 16.4 49.1



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 20.994 ug/l

RT: 2.05 min Scan# 85

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 100960

Ion Ratio Lower Upper

50 100

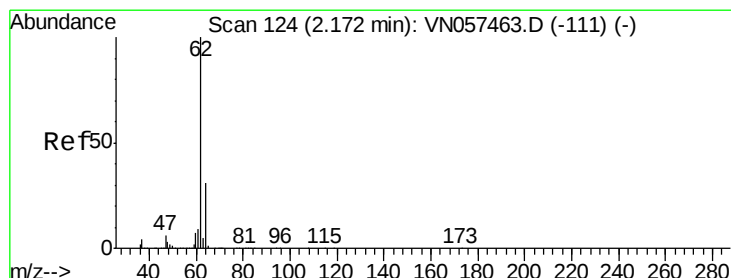
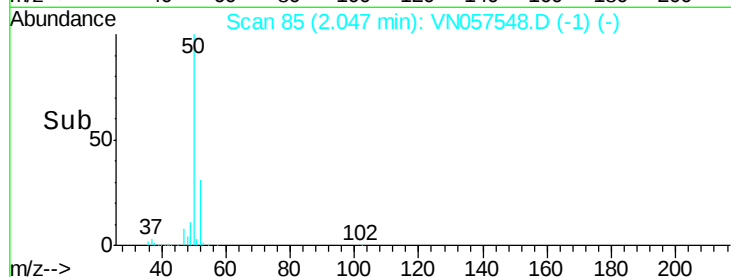
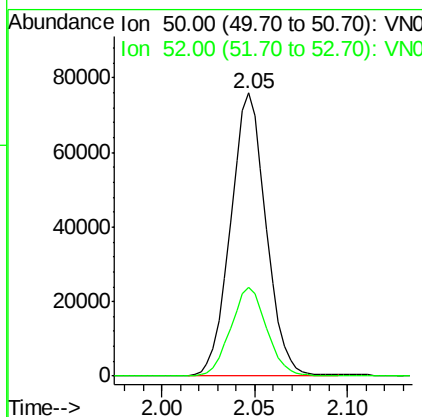
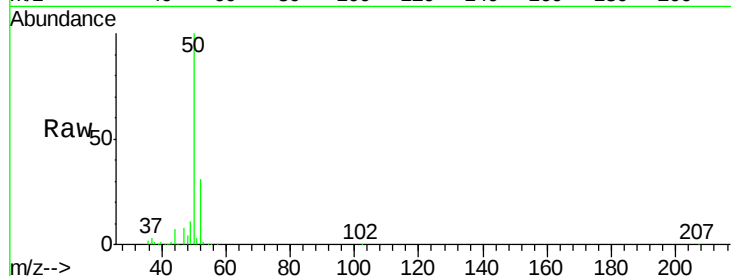
52 31.5 25.8 38.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.129 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN057548.D

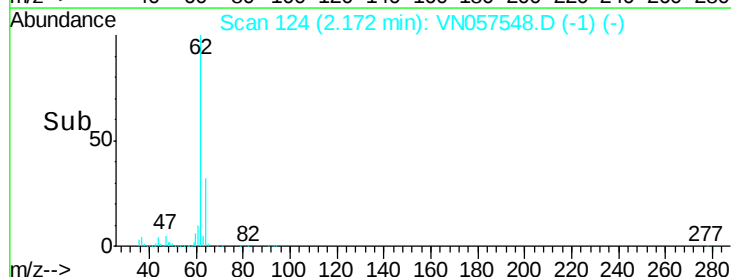
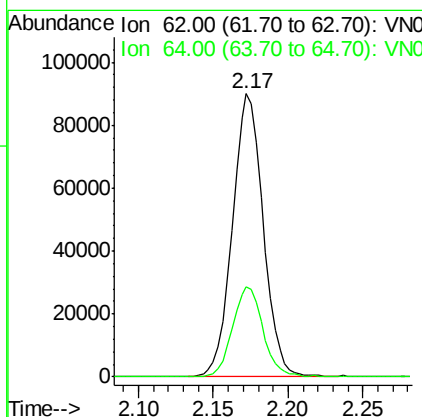
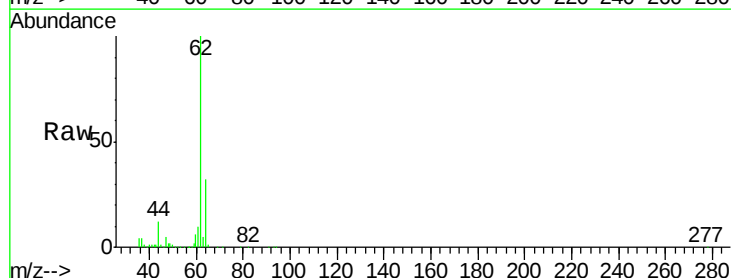
Acq: 27 Aug 2019 12:00

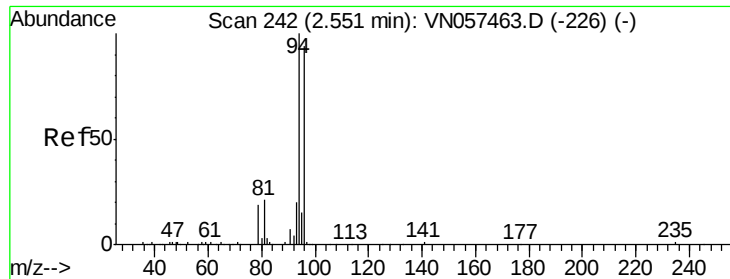
Tgt Ion: 62 Resp: 129081

Ion Ratio Lower Upper

62 100

64 32.0 24.8 37.2





#5

Bromomethane

Concen: 19.882 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 94 Resp: 78579

Ion Ratio Lower Upper

94 100

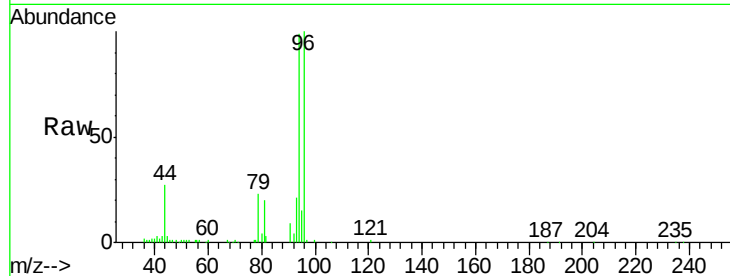
96 100.8 74.8 112.2

Manual Integrations

APPROVED

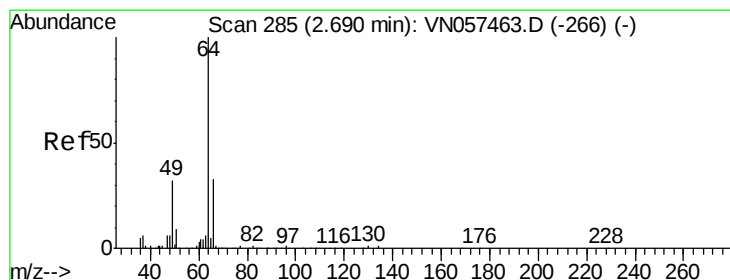
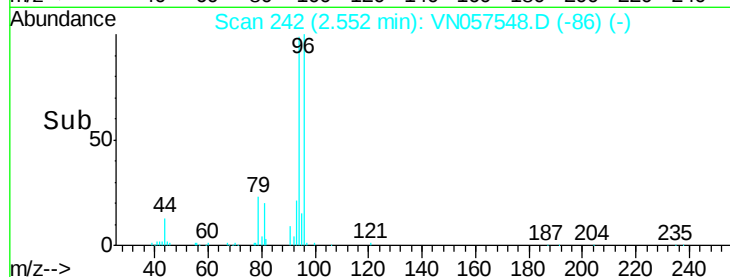
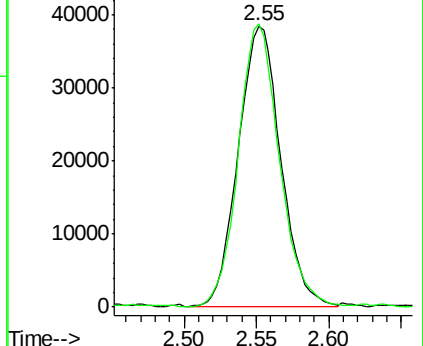
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 19.433 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.00 min

Lab File: VN057548.D

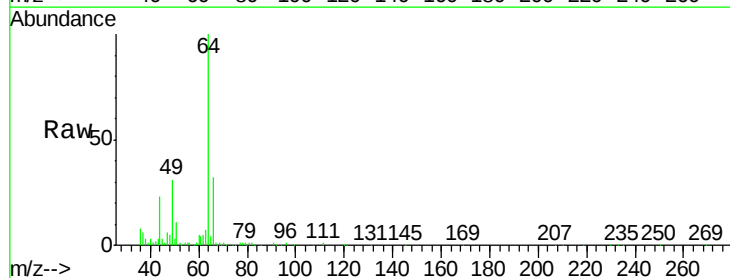
Acq: 27 Aug 2019 12:00

Tgt Ion: 64 Resp: 79523

Ion Ratio Lower Upper

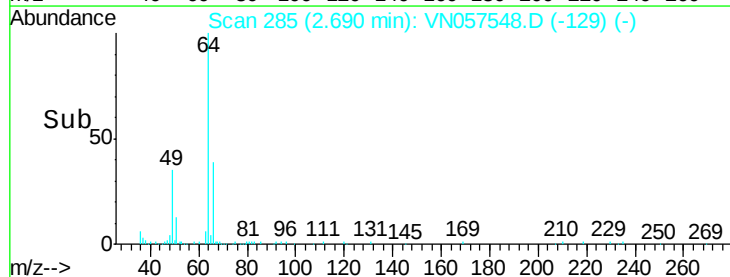
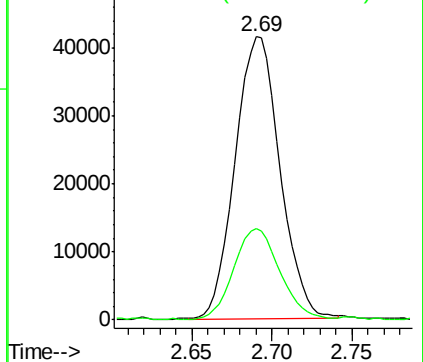
64 100

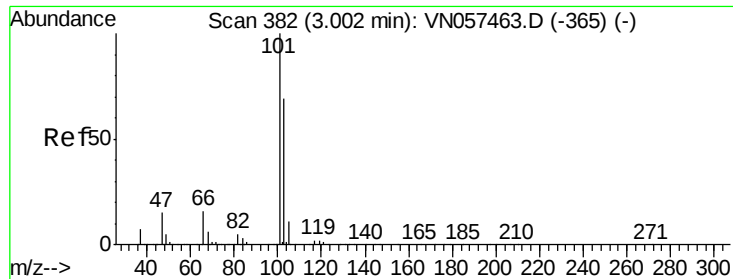
66 32.6 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

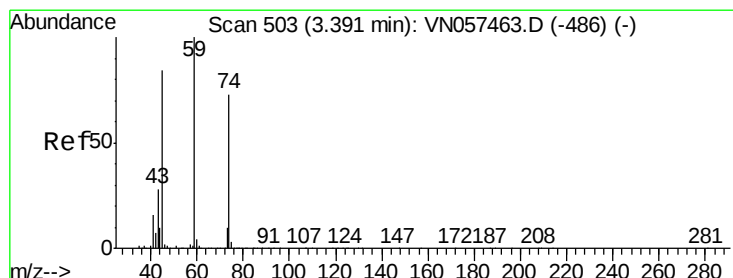
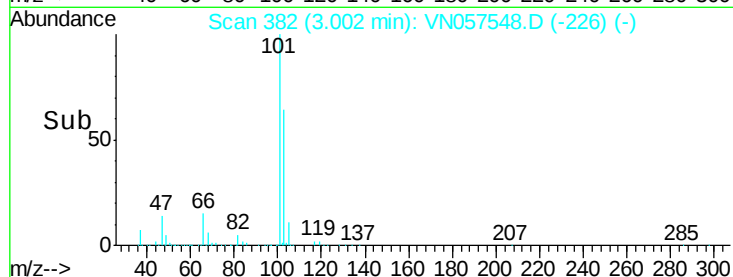
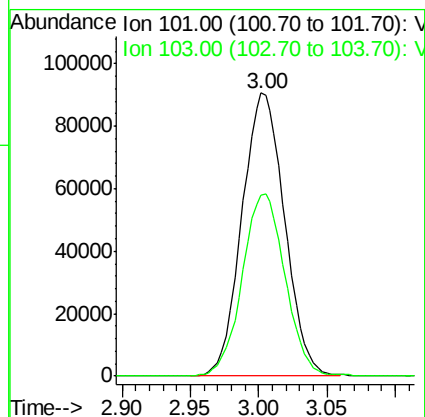
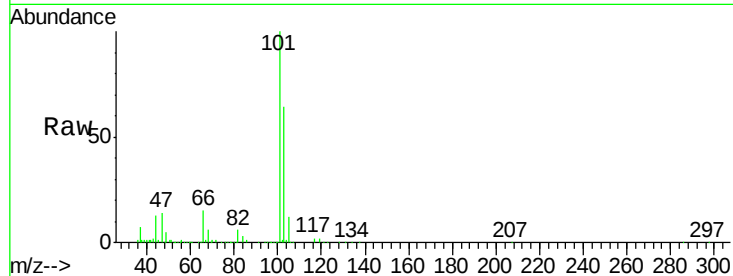
Trichlorofluoromethane
Concen: 20.241 ug/l
RT: 3.00 min Scan# 382
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
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ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	55.0	82.4

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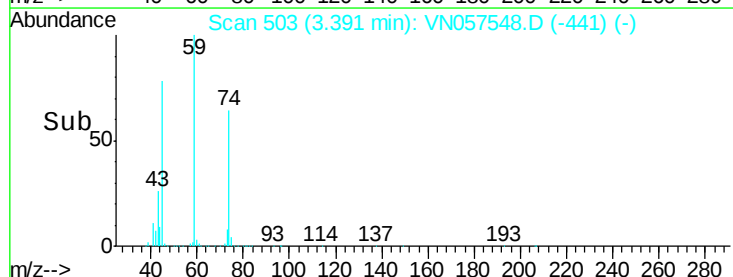
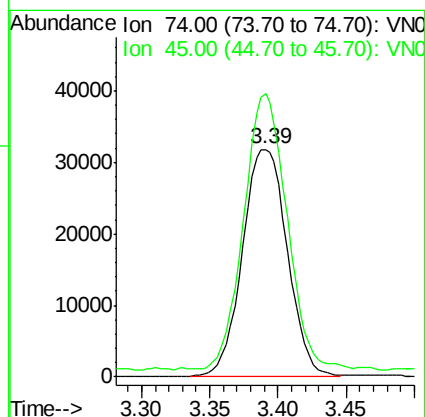
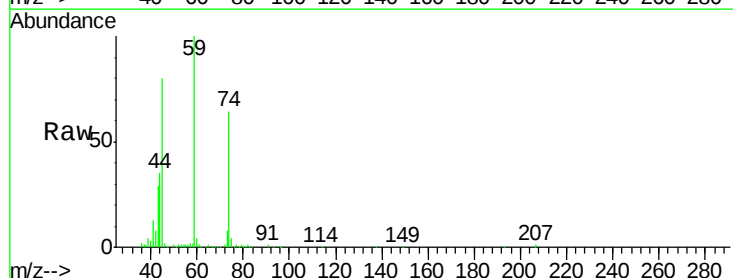
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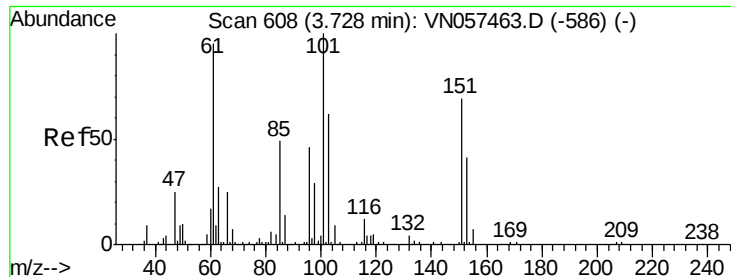


#8

Diethyl Ether
Concen: 19.405 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
74	100		
45	115.7	23.2	209.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 12.141 ug/l

RT: 3.73 min Scan# 608

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

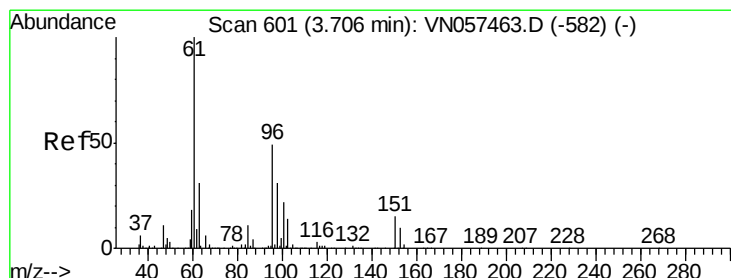
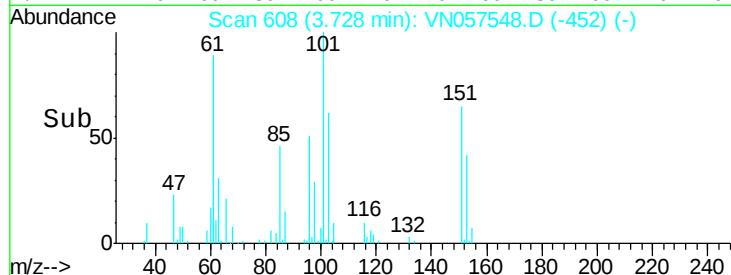
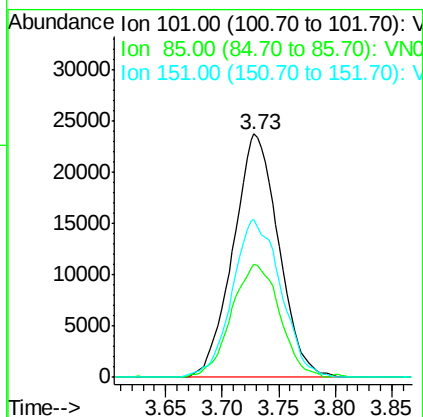
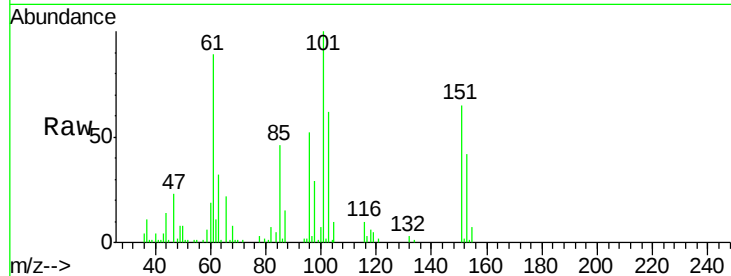
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	66444
Ion Ratio	Lower	Upper	
101	100		
85	49.2	0.0	101.6
151	69.1	0.0	139.4

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#10

1,1-Dichloroethene

Concen: 11.588 ug/l

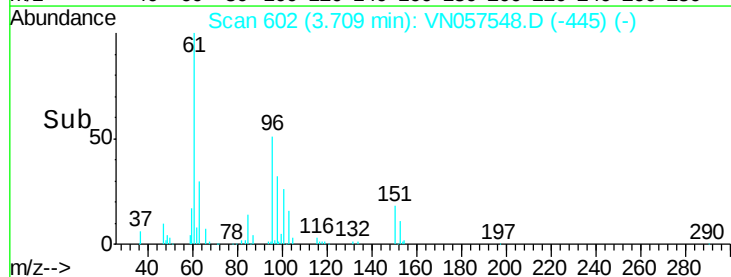
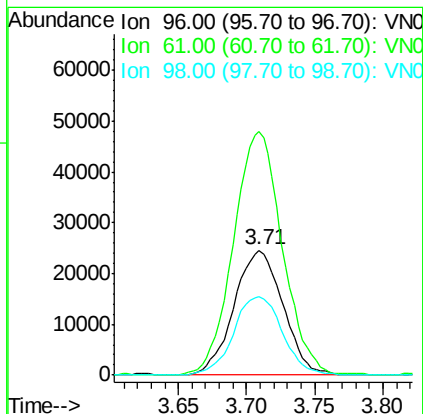
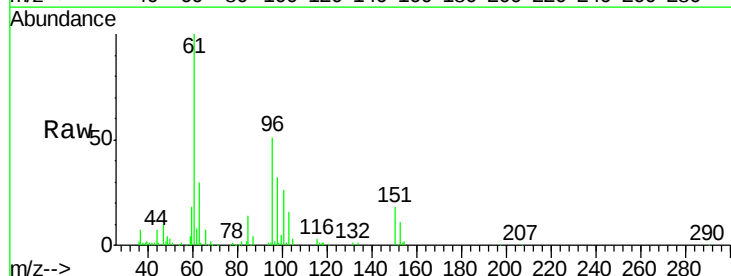
RT: 3.71 min Scan# 602

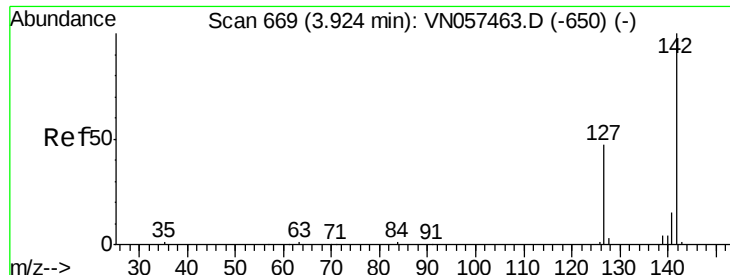
Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Tgt Ion:	96	Resp:	61227
Ion Ratio	Lower	Upper	
96	100		
61	193.4	162.6	244.0
98	63.6	51.1	76.7





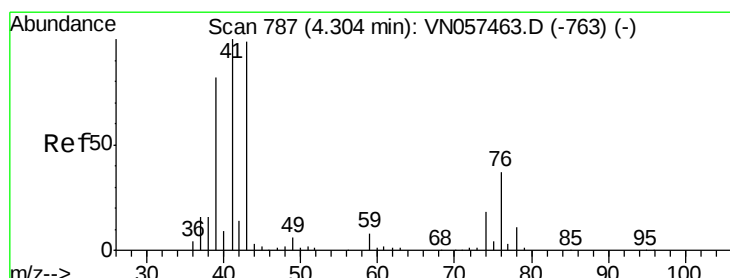
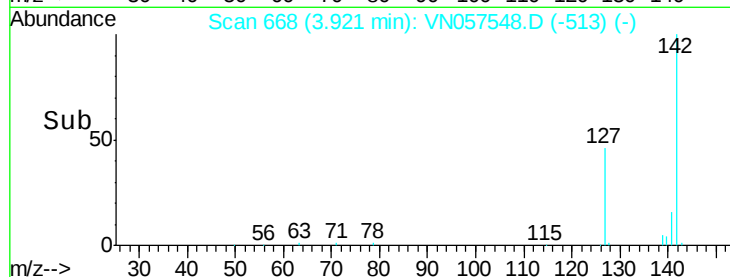
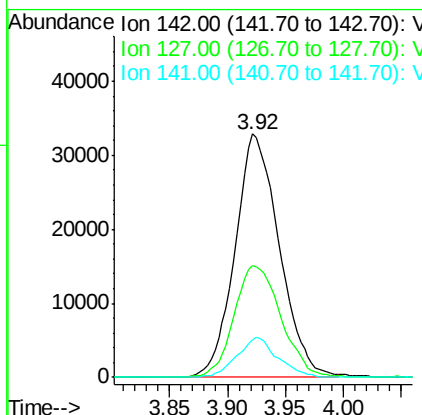
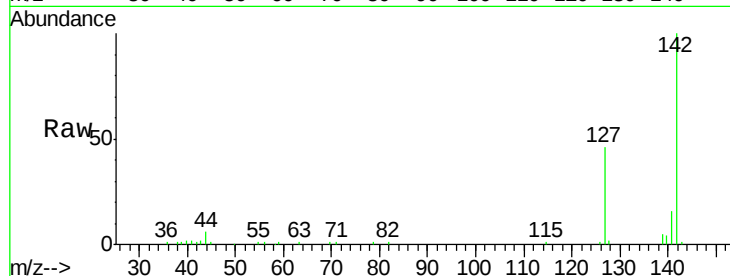
#11
Methvl Iodide
Concen: 18.369 ug/l
RT: 3.92 min Scan# 668
Delta R.T. -0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	48.2	24.0	72.0
141	15.7	7.0	21.1

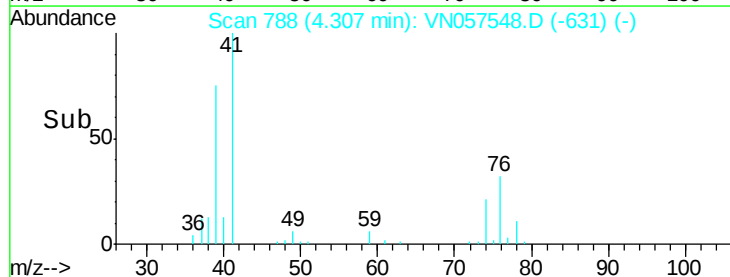
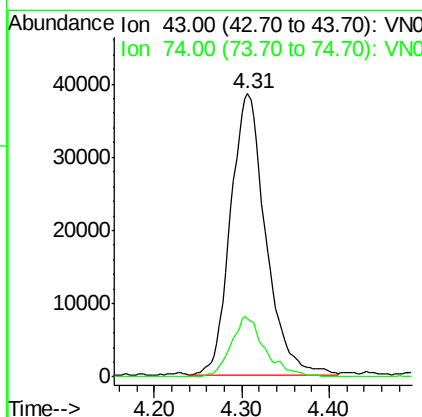
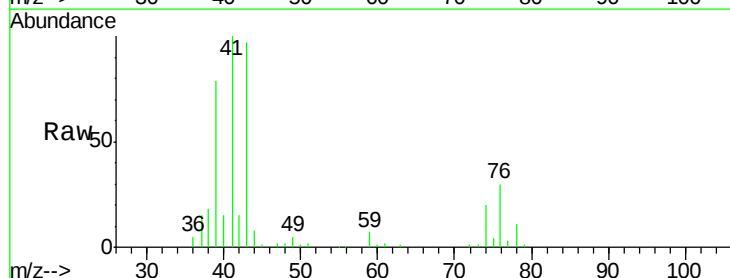
Manual Integrations
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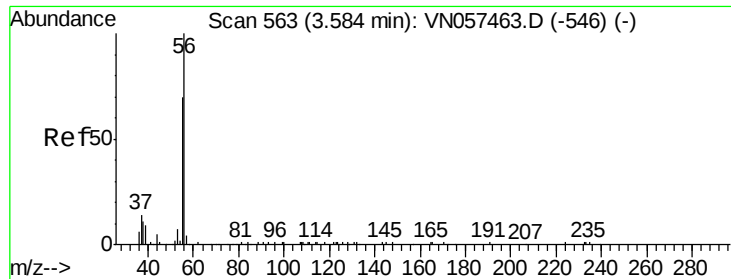
MMDadoda
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#12
Methyl Acetate
Concen: 20.053 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.6	14.6	22.0





#13

Acrolein

Concen: 91.078 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 61652

Ion Ratio Lower Upper

56 100

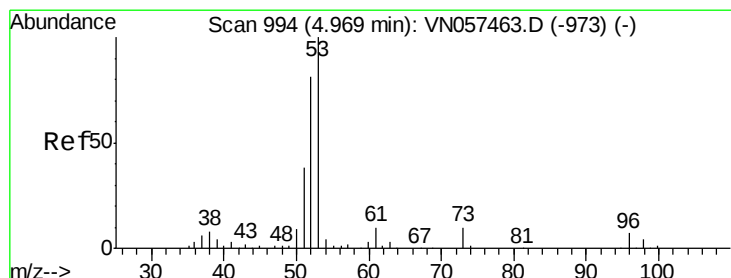
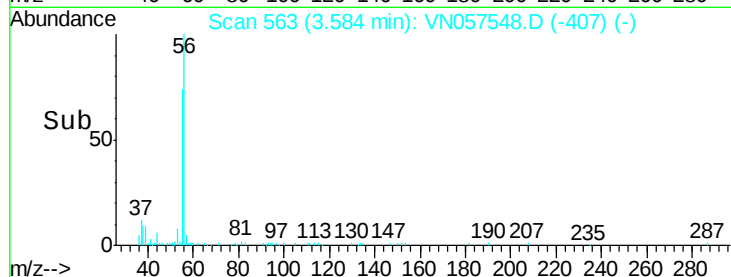
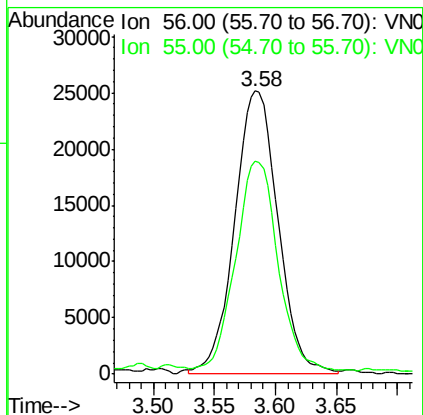
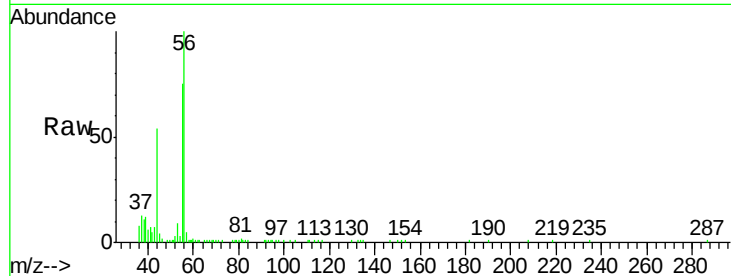
55 71.9 56.7 85.1

Manual Integrations

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#14

Acrylonitrile

Concen: 99.420 ug/l

RT: 4.97 min Scan# 993

Delta R.T. -0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

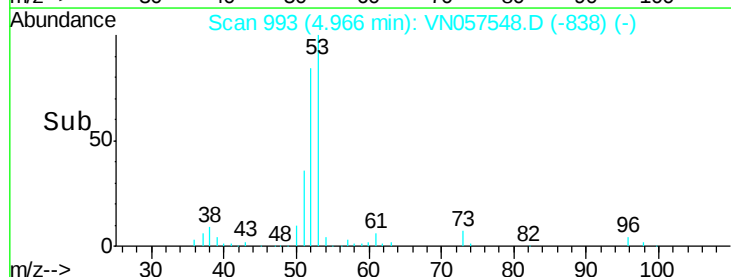
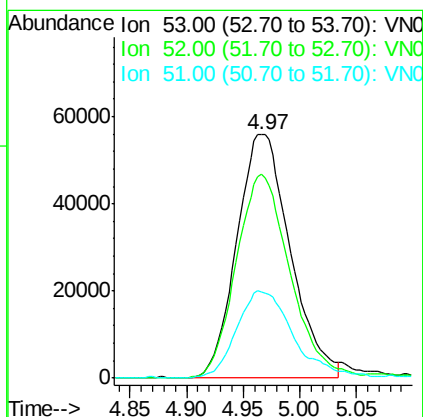
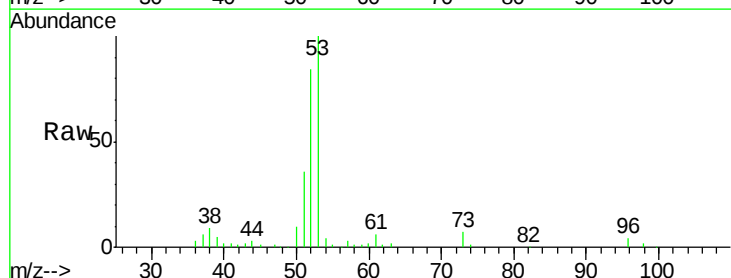
Tgt Ion: 53 Resp: 183835

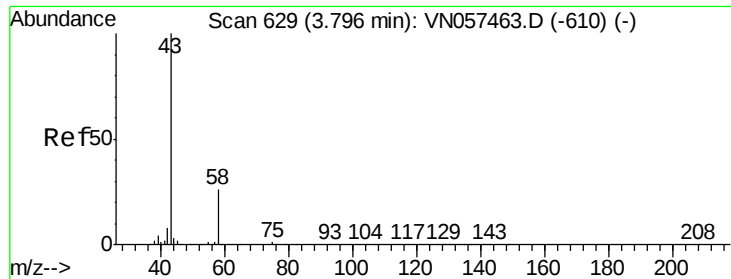
Ion Ratio Lower Upper

53 100

52 84.2 41.3 123.9

51 37.8 18.3 54.9





#15

Acetone

Concen: 58.804 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Tot Ion: 58 Resp: 50865

Ion Ratio Lower Upper

58 100

43 357.4 304.4 456.6

Instrument :

MSVOA_N

ClientSampleId :

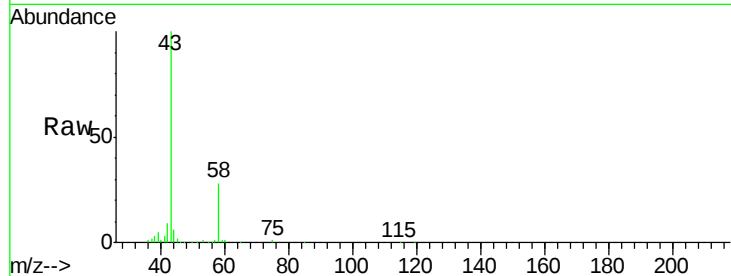
VSTDCCC020EC

Manual Integrations

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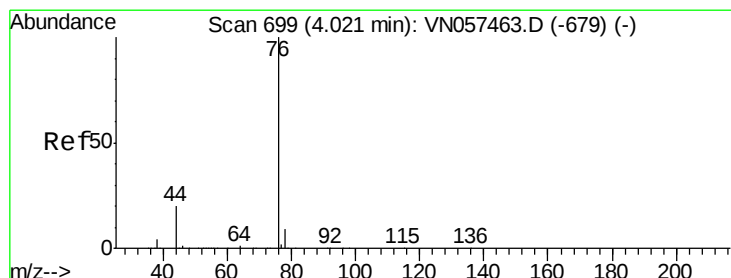
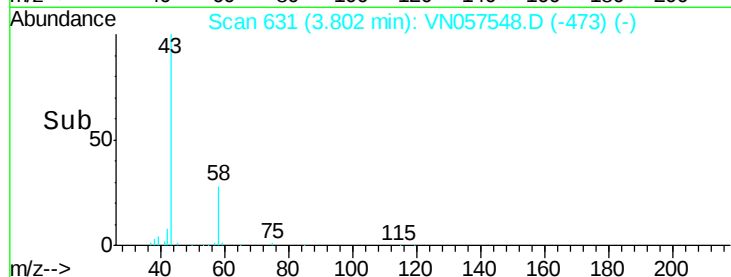
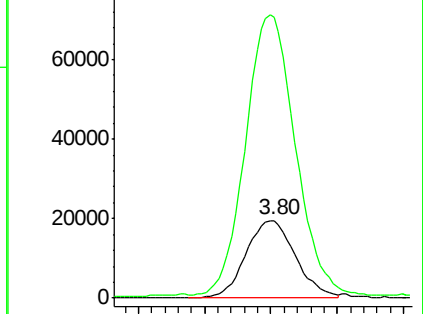
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Abundance Ion 58.00 (57.70 to 58.70): VN057548.D (-473) (-)

Ion 43.00 (42.70 to 43.70): VN057548.D (-473) (-)



#16

Carbon Disulfide

Concen: 20.047 ug/l

RT: 4.02 min Scan# 699

Delta R.T. 0.00 min

Lab File: VN057548.D

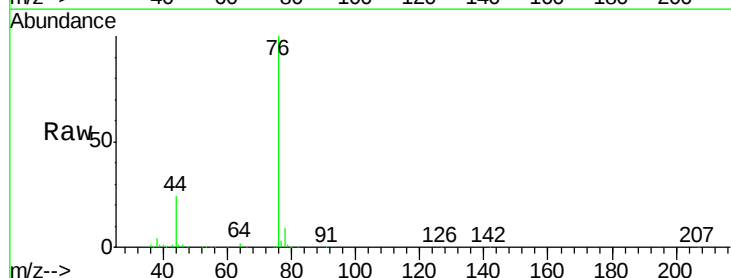
Acq: 27 Aug 2019 12:00

Tgt Ion: 76 Resp: 188663

Ion Ratio Lower Upper

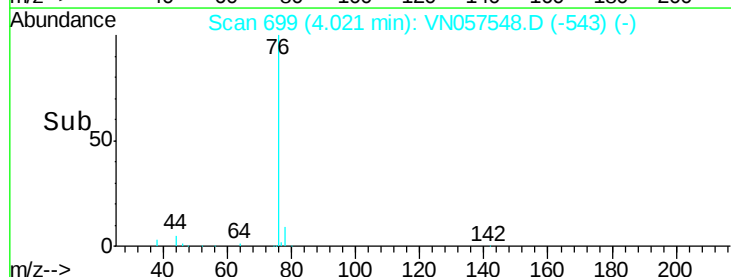
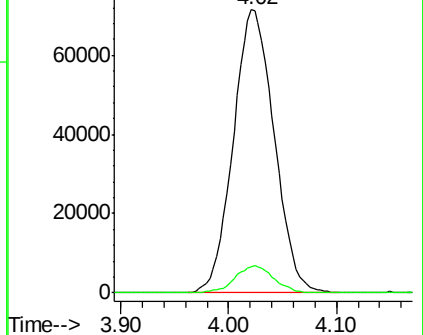
76 100

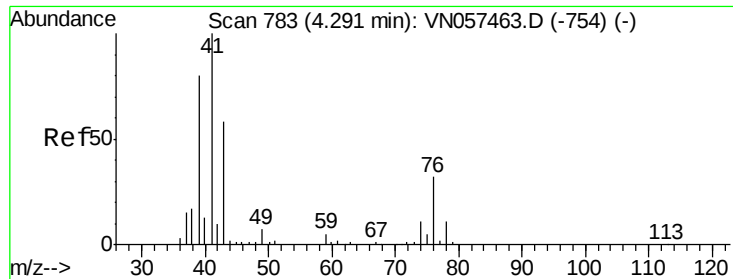
78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VN057548.D (-543) (-)

Ion 78.00 (77.70 to 78.70): VN057548.D (-543) (-)





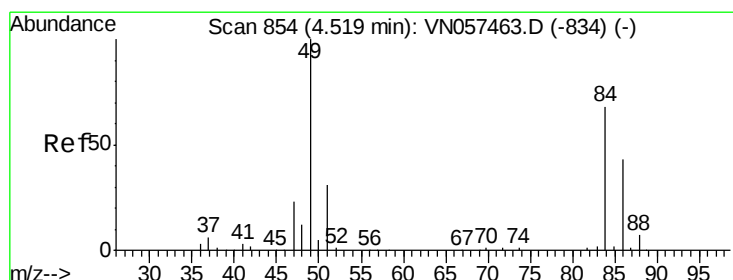
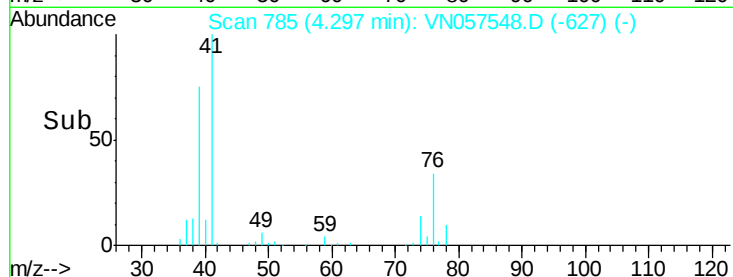
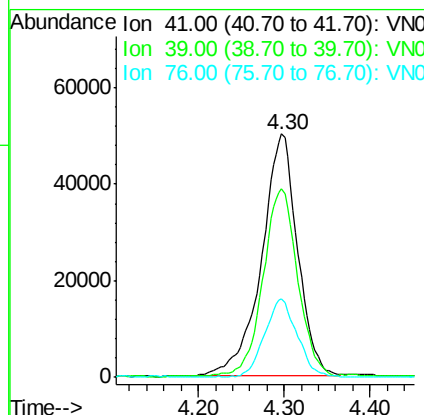
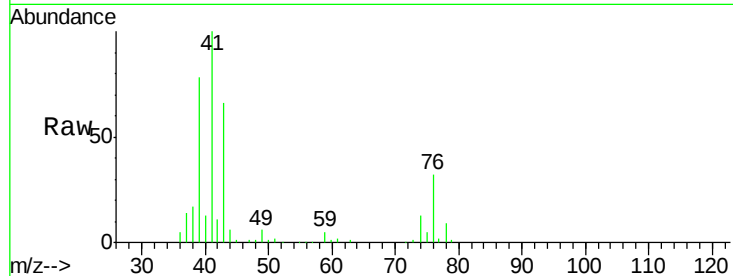
#17
Allvl chloride
Concen: 20.210 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	77.5	40.1	120.2
76	32.5	16.2	48.6

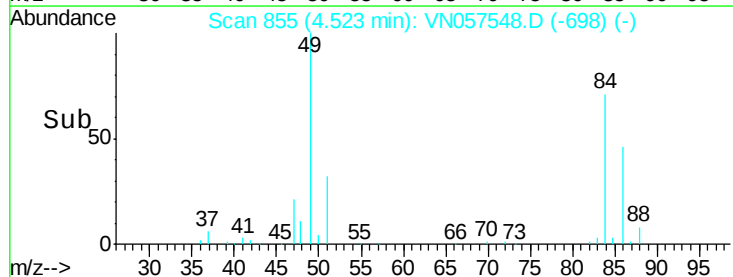
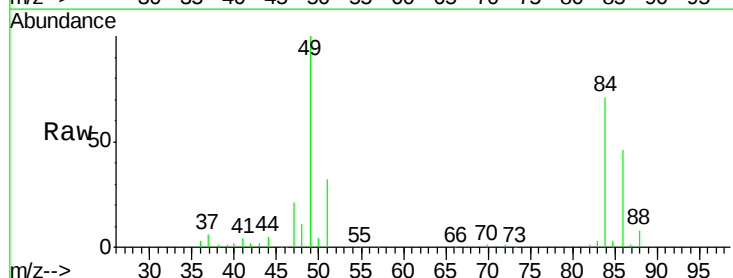
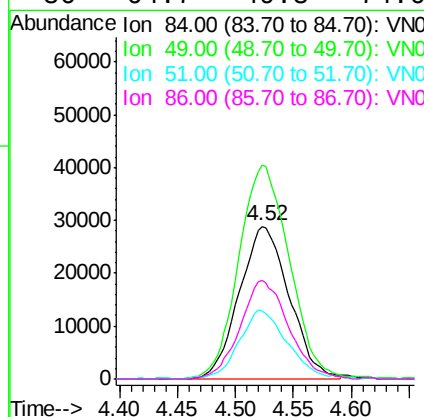
Manual Integrations
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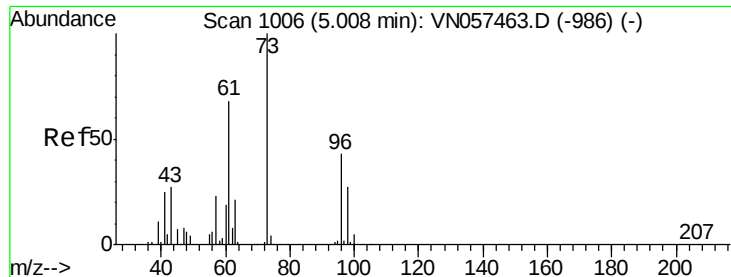
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#18
Methylene Chloride
Concen: 22.294 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
84	100		
49	139.1	116.8	175.2
51	43.9	36.4	54.6
86	64.7	49.8	74.6





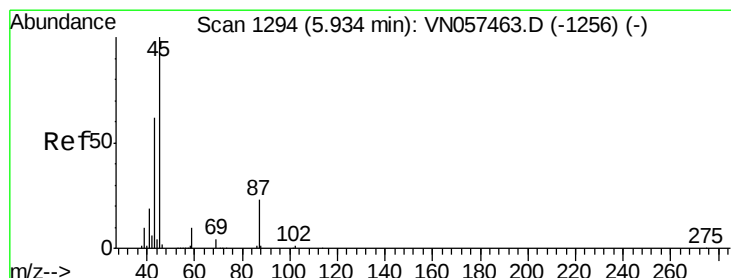
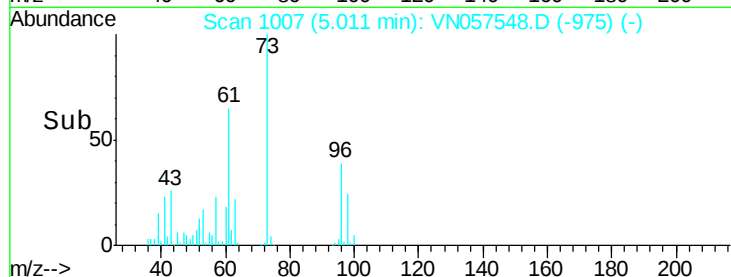
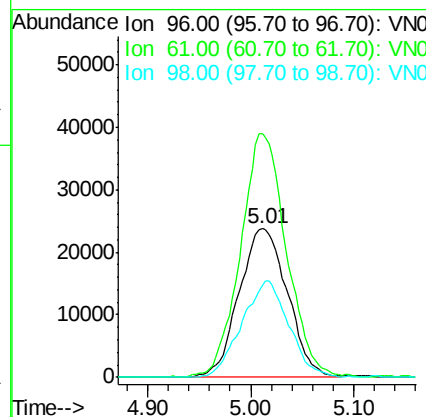
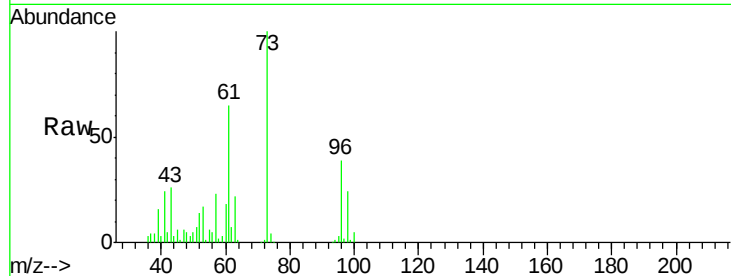
#19
trans-1,2-Dichloroethene
Concen: 21.228 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	162.5	127.6	191.4
98	62.1	51.5	77.3

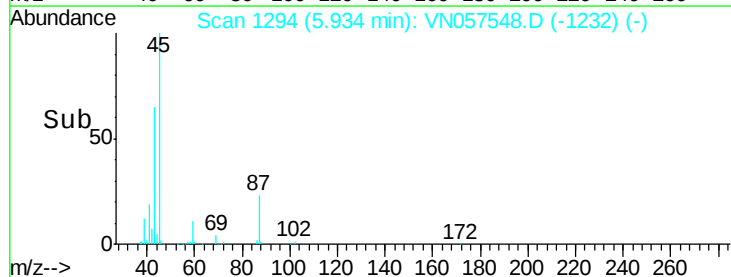
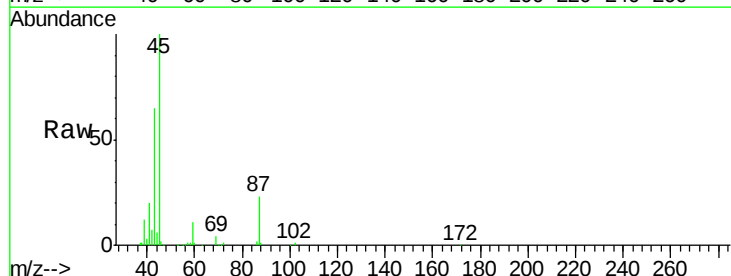
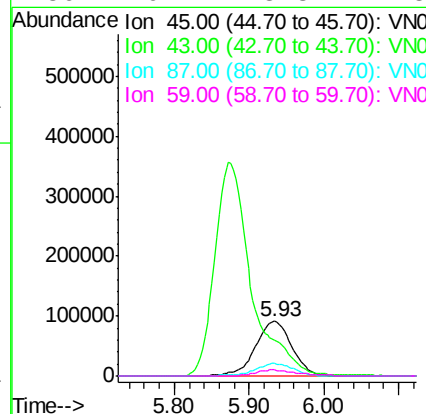
Manual Integrations
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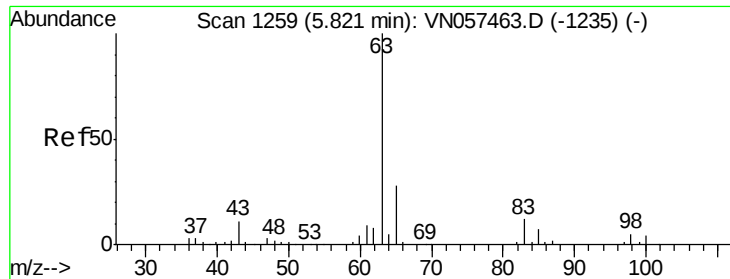
MMDadoda
8/28/2019 4:26:49 PM



#20
Diisopropyl ether
Concen: 19.947 ug/l
RT: 5.93 min Scan# 1294
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.9	49.9	74.9
87	22.9	19.1	28.7
59	10.7	8.3	12.5





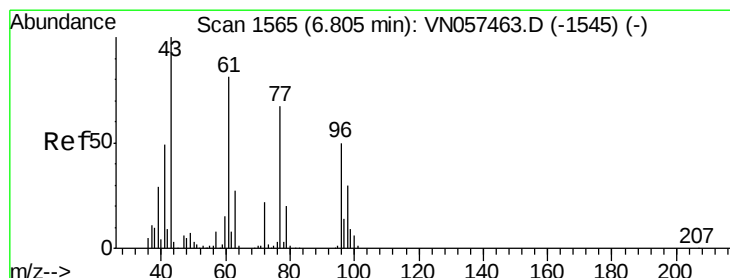
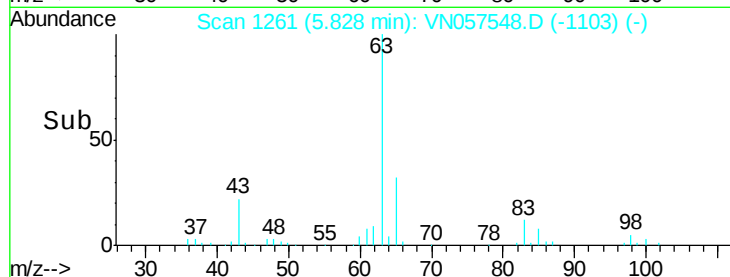
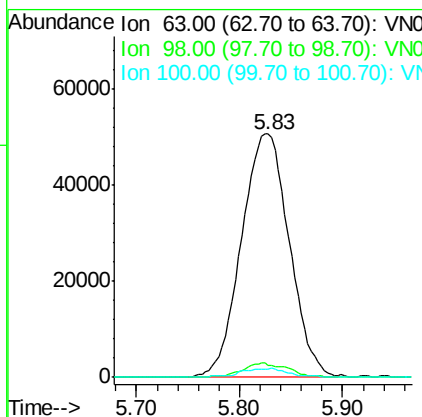
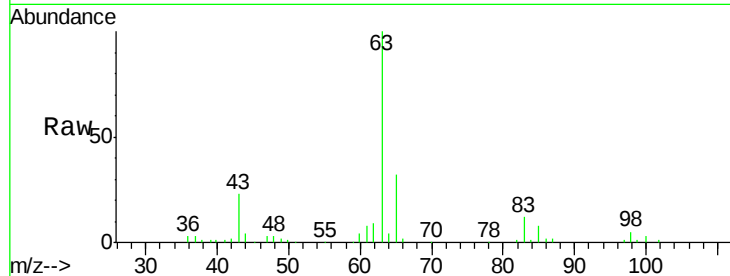
#21
 1,1-Dichloroethane
 Concen: 20.392 ug/l
 RT: 5.83 min Scan# 1261
 Delta R.T. 0.01 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion:	63	Resp:	163065
Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.4	7.1
100	3.4	2.1	6.3

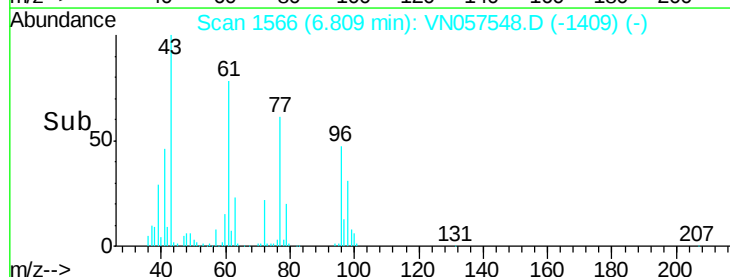
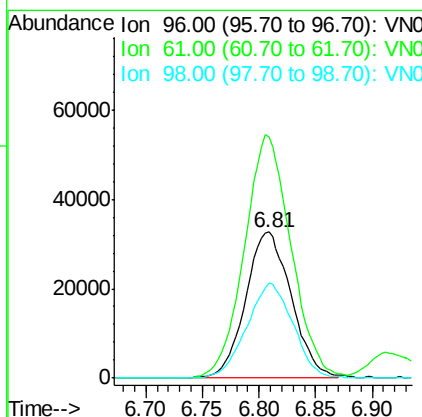
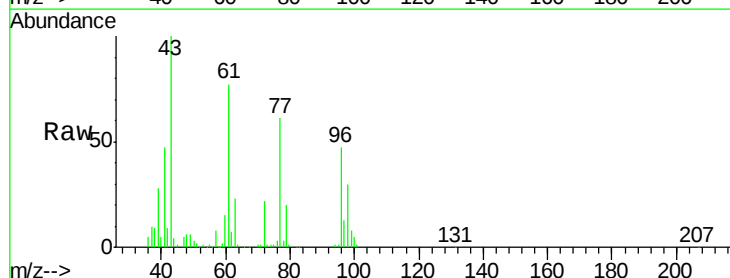
Manual Integrations
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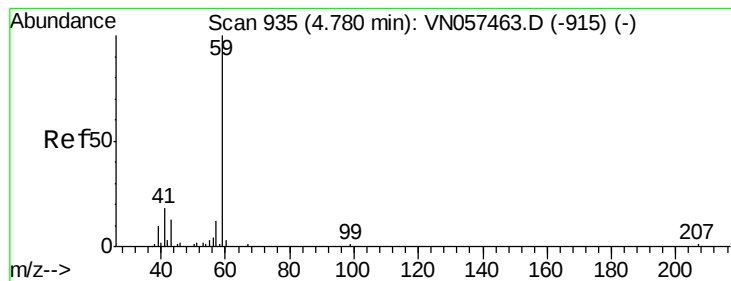
MMDadoda
 8/28/2019 4:26:49 PM



#22
 cis-1,2-Dichloroethene
 Concen: 20.687 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Tgt Ion:	96	Resp:	91812
Ion	Ratio	Lower	Upper
96	100		
61	169.5	134.4	201.6
98	65.6	51.4	77.0





#23

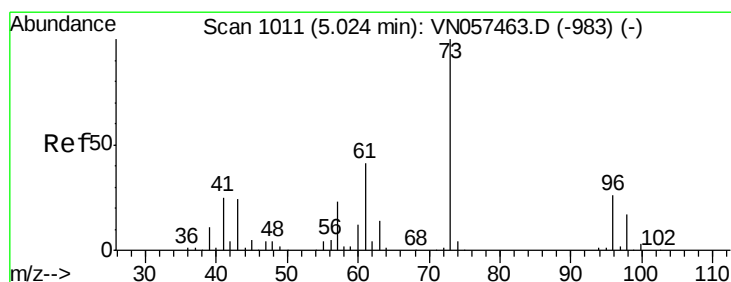
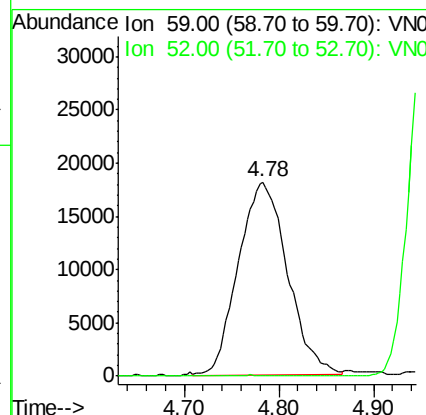
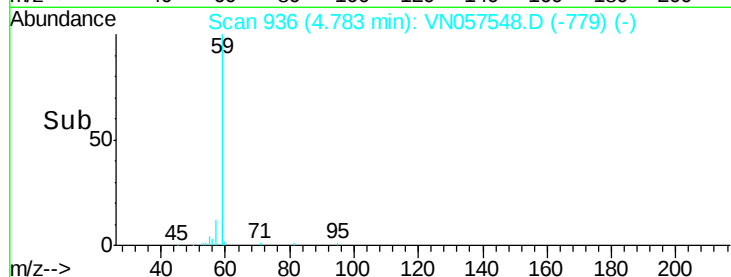
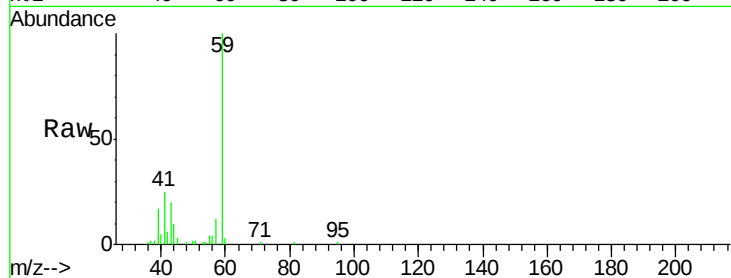
tert-Butyl Alcohol
 Concen: 96.577 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 59 Resp: 64869
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

Manual Integrations
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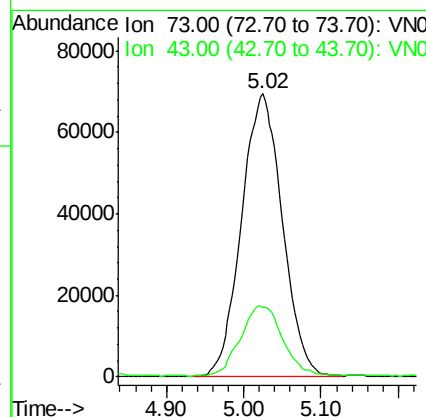
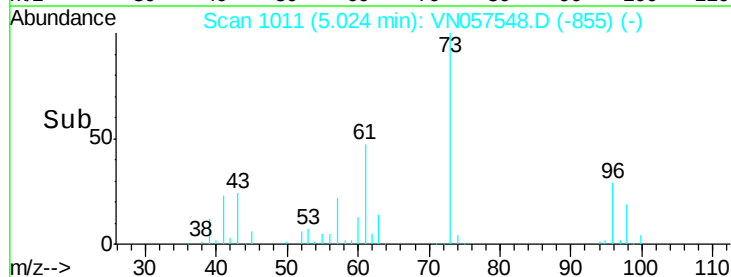
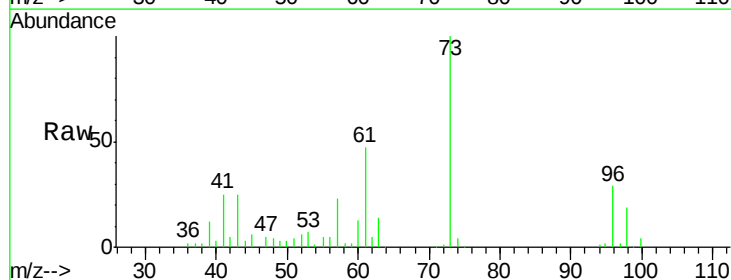
MMDadoda
 8/28/2019 4:26:49 PM

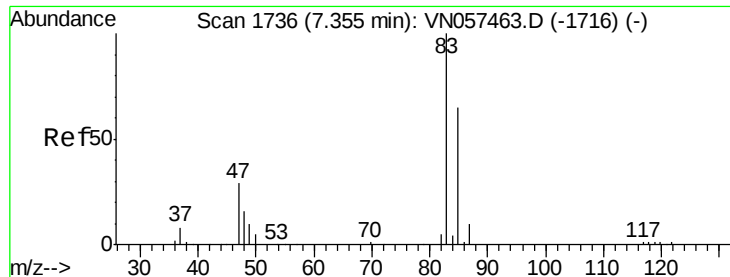


#24

Methyl tert-Butyl Ether
 Concen: 20.955 ug/l
 RT: 5.02 min Scan# 1011
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Tgt Ion: 73 Resp: 255807
 Ion Ratio Lower Upper
 73 100
 43 24.5 20.1 30.1





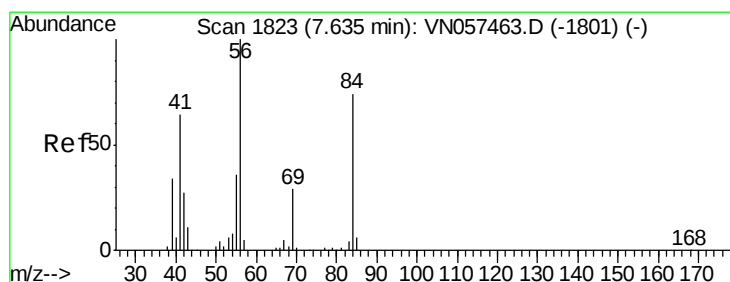
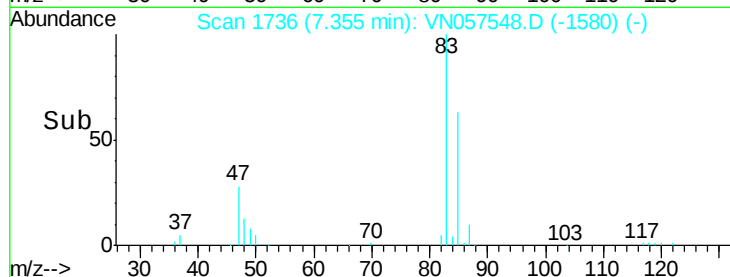
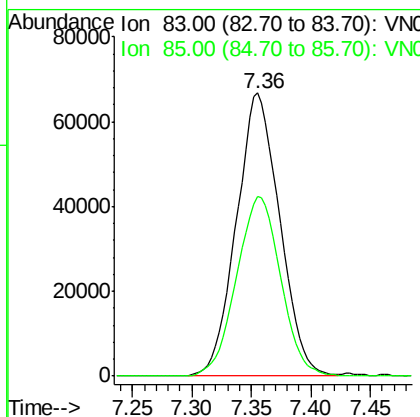
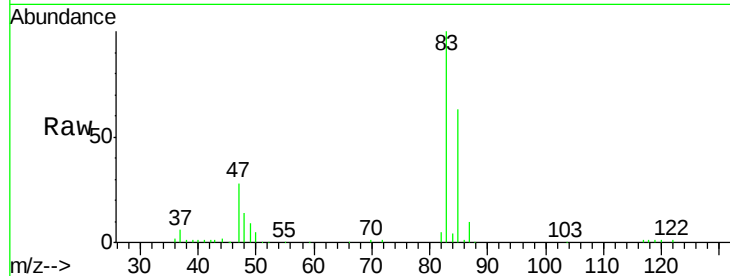
#25
Chloroform
Concen: 21.196 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	168276
Ion Ratio	100	Lower	Upper
83	100		
85	63.4	52.0	78.0

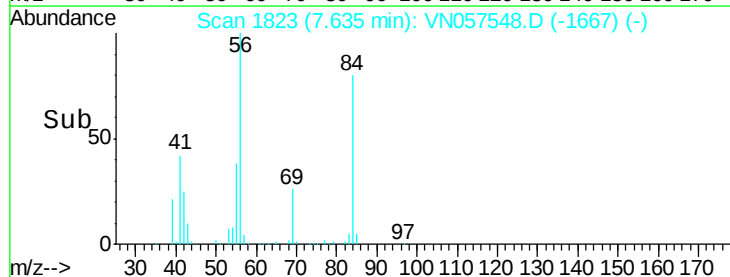
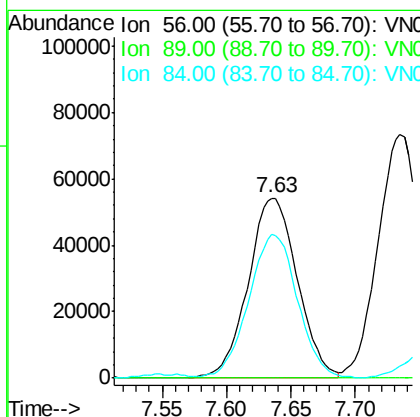
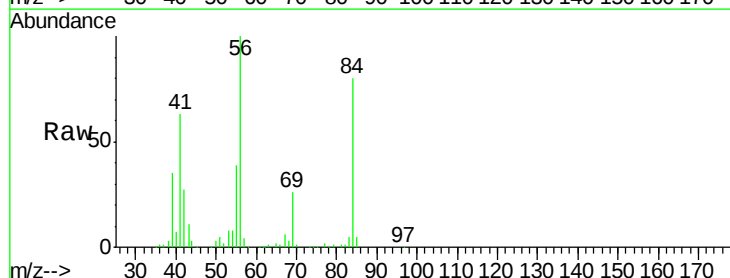
Manual Integrations
APPROVED

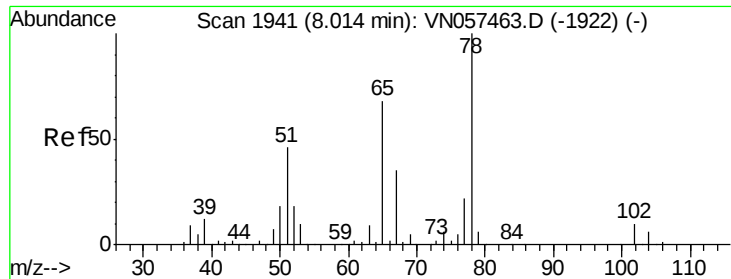
MMDadoda
8/28/2019 4:26:49 PM



#26
Cyclohexane
Concen: 20.166 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	56	Resp	143591
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	78.5	61.1	91.7





#27

1,2-Dichloroethane-d4

Concen: 29.774 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 65 Resp: 175708

Ion Ratio Lower Upper

65 100

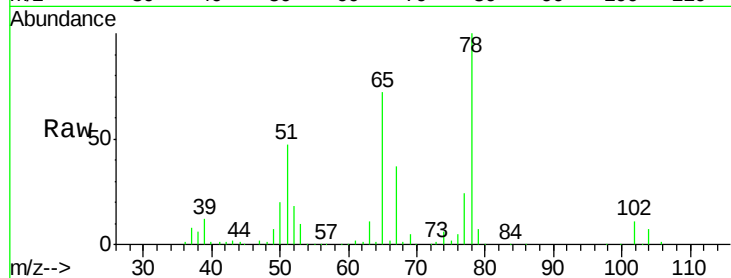
67 52.5 40.2 60.4

Manual Integrations

APPROVED

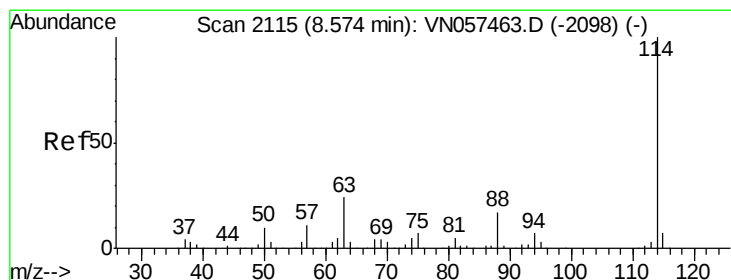
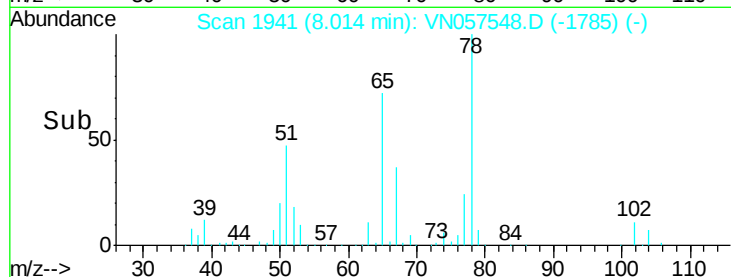
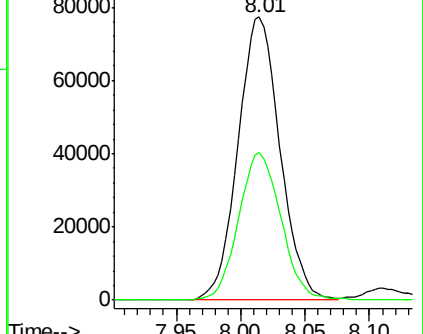
MMDadoda

8/28/2019 4:26:49 PM



Abundance Ion 65.00 (64.70 to 65.70): VN057463.D (-1922) (-)

Ion 67.00 (66.70 to 67.70): VN057463.D (-1922) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

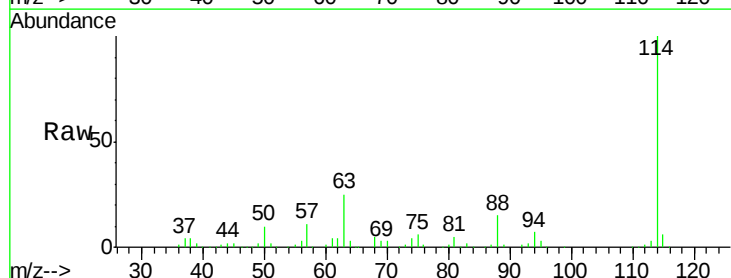
Tgt Ion: 114 Resp: 354470

Ion Ratio Lower Upper

114 100

63 24.8 19.6 29.4

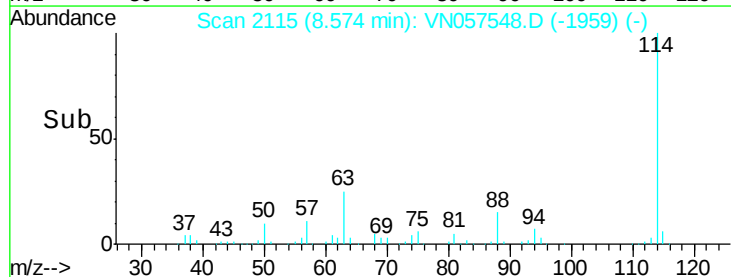
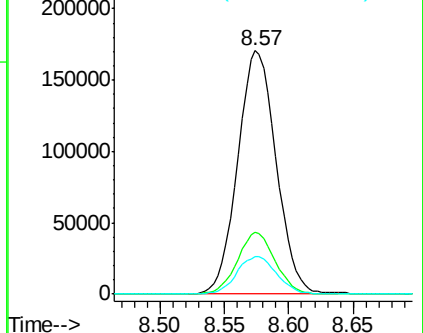
88 16.0 13.1 19.7

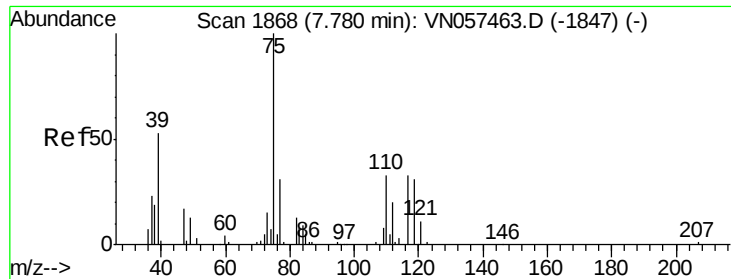


Abundance Ion 114.00 (113.70 to 114.70): VN057463.D (-2098) (-)

Ion 63.00 (62.70 to 63.70): VN057463.D (-2098) (-)

Ion 88.00 (87.70 to 88.70): VN057463.D (-2098) (-)





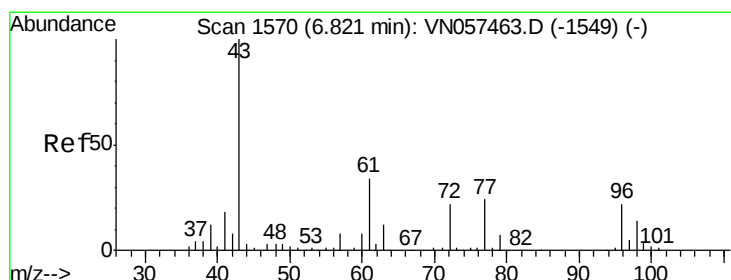
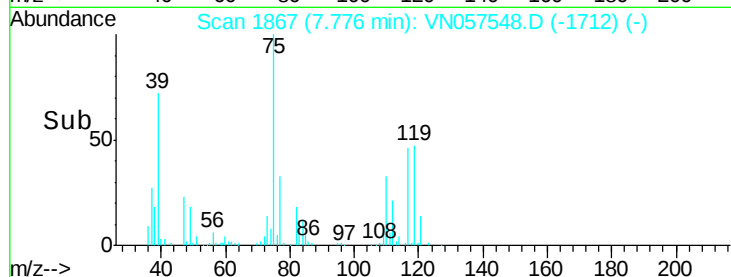
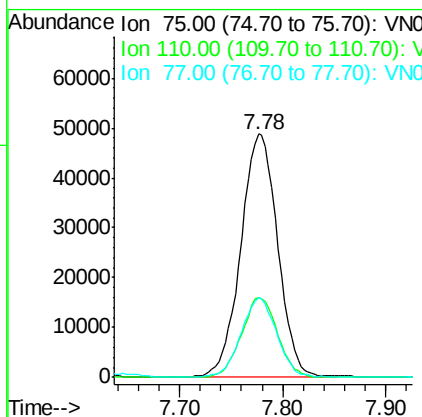
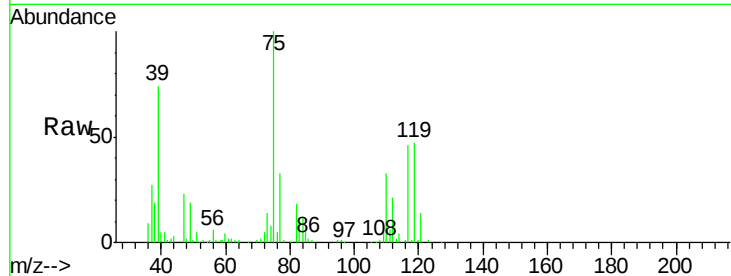
#29
 1,1-Dichloropropene
 Concen: 20.160 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
110	32.0	0.0	64.0
77	31.7	0.0	63.4

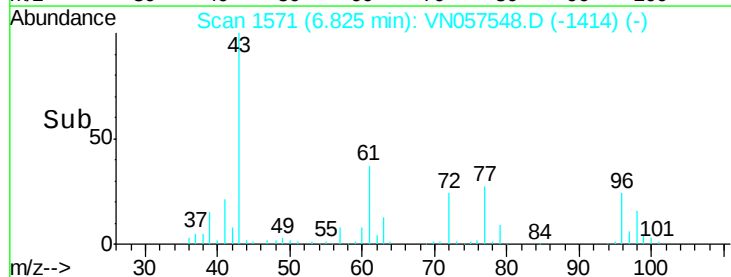
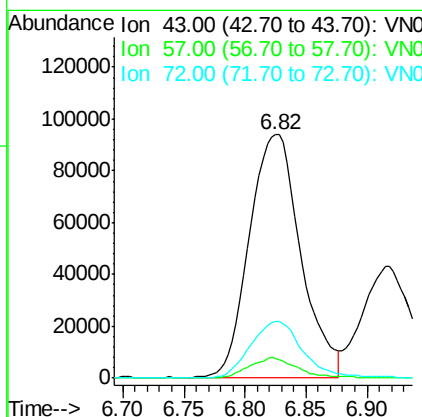
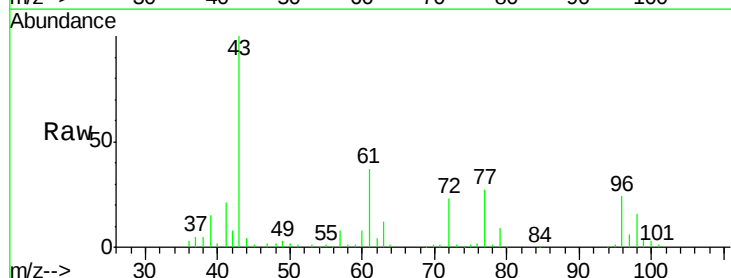
Manual Integrations
 APPROVED

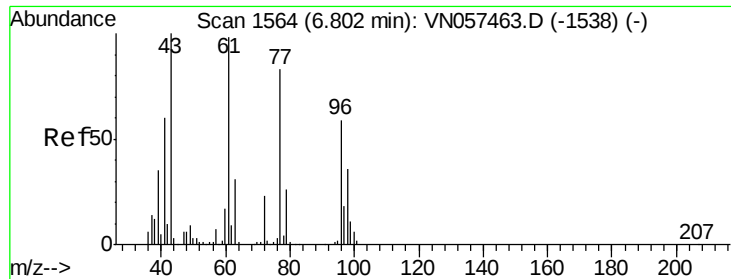
MMDadoda
 8/28/2019 4:26:49 PM



#30
 2-Butanone
 Concen: 94.338 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.6	5.7	8.5
72	23.5	18.2	27.2





#31

2,2-Dichloropropane

Concen: 20.013 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 77 Resp: 137753

Ion Ratio Lower Upper

77 100

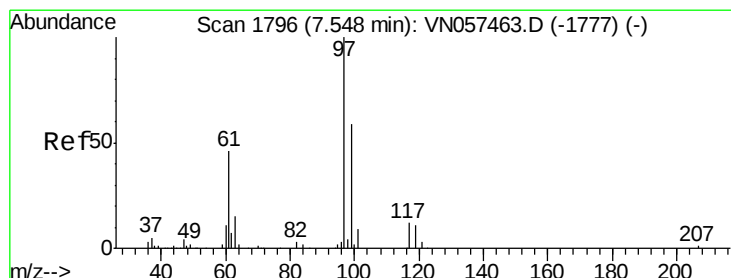
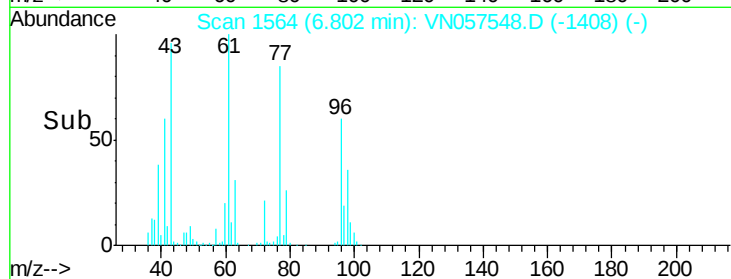
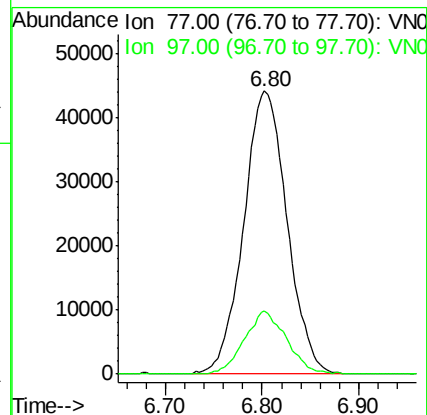
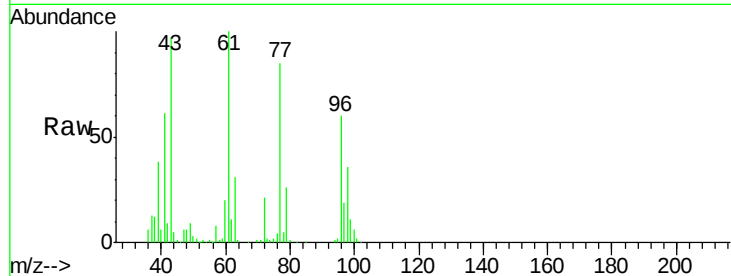
97 21.5 17.0 25.4

Manual Integrations

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8/28/2019 4:26:49 PM



#32

1,1,1-Trichloroethane

Concen: 20.432 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. 0.01 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

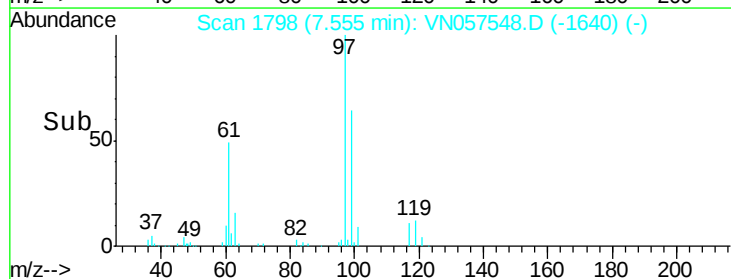
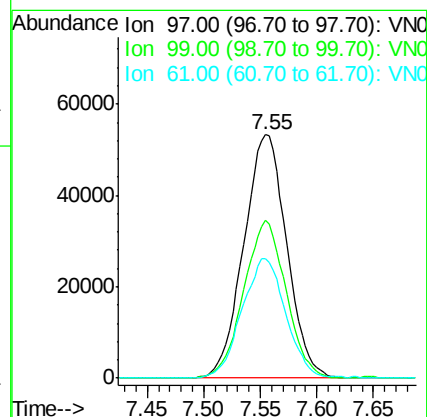
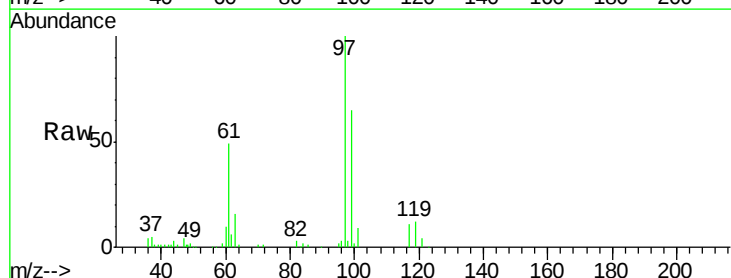
Tgt Ion: 97 Resp: 140712

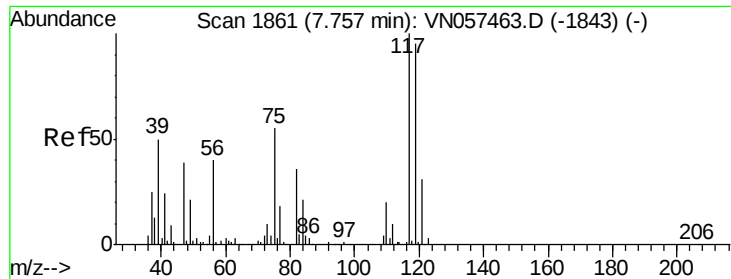
Ion Ratio Lower Upper

97 100

99 63.7 49.6 74.4

61 49.9 40.9 61.3





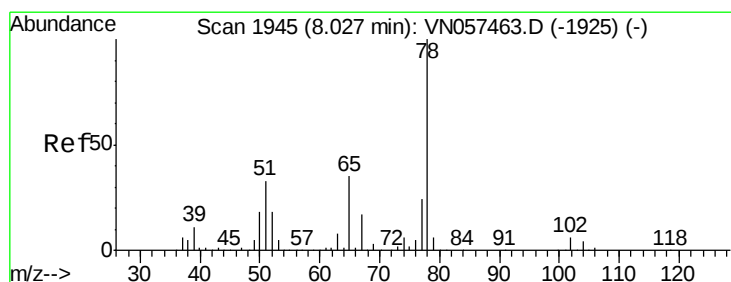
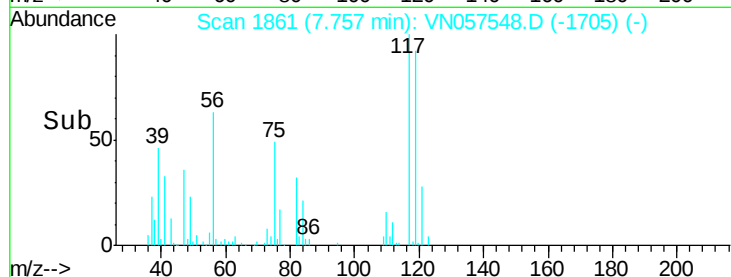
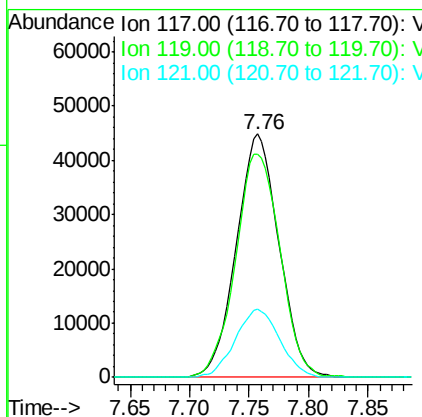
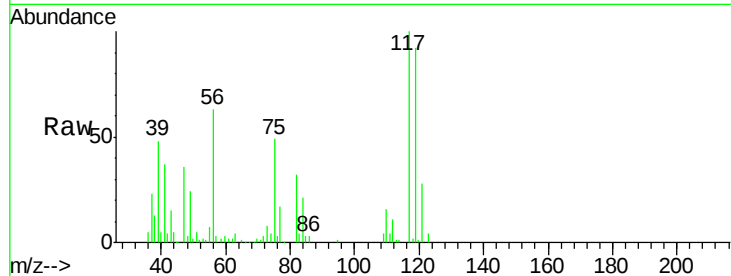
#33
Carbon Tetrachloride
Concen: 19.396 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
117	100		110921		
119	91.7	76.8	115.2		
121	28.2	24.8	37.2		

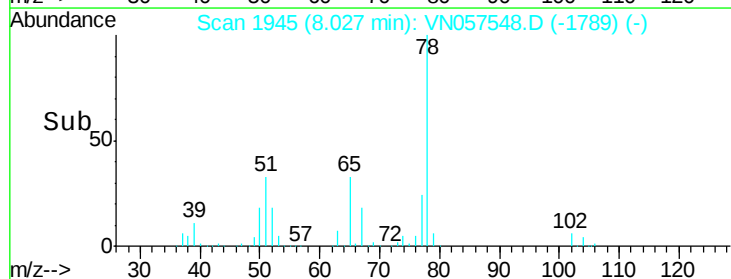
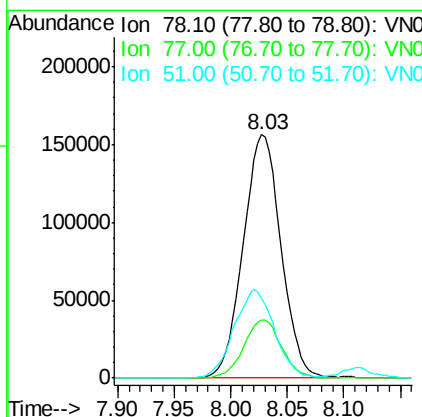
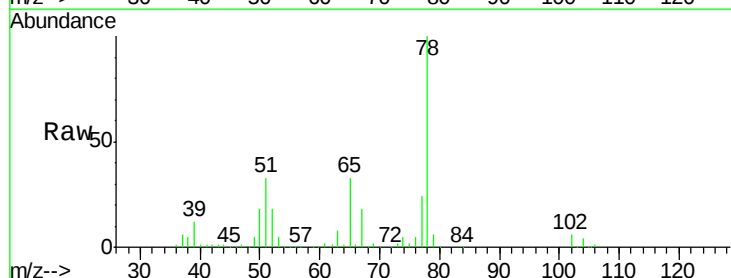
Manual Integrations
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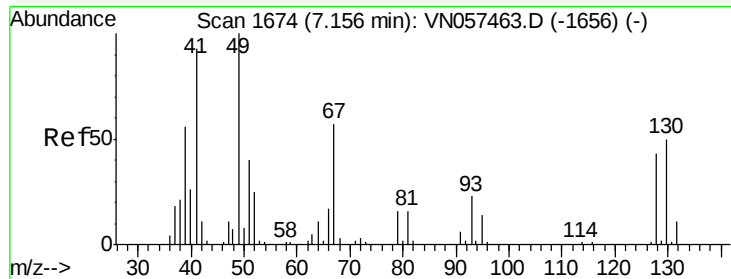
MMDadoda
8/28/2019 4:26:49 PM



#34
Benzene
Concen: 20.537 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
78	100		363821		
77	23.9	19.5	29.3		
51	32.8	26.0	39.0		





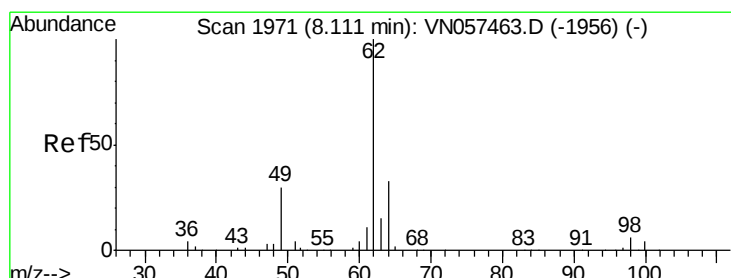
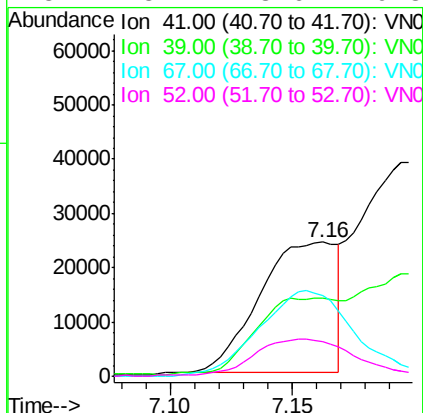
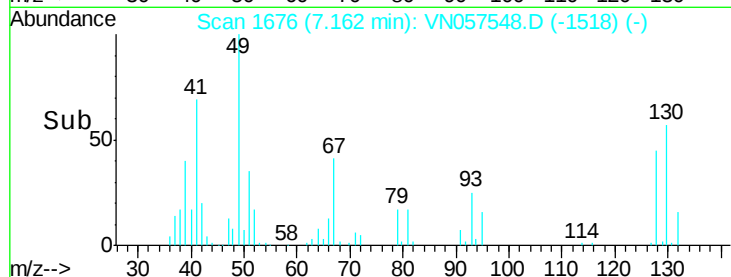
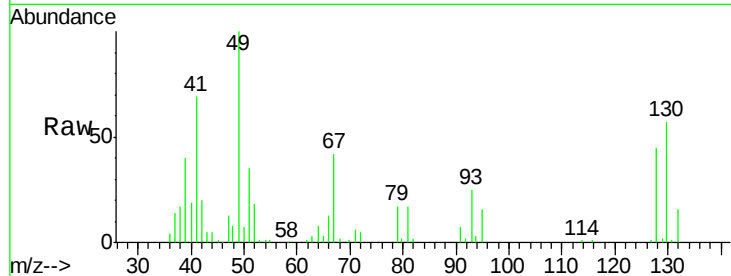
#35
Methacrylonitrile
Concen: 18.097 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. 0.01 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100				
39	57.4	30.5	91.5		
67	60.3	30.9	92.5		
52	25.4	13.6	40.8		

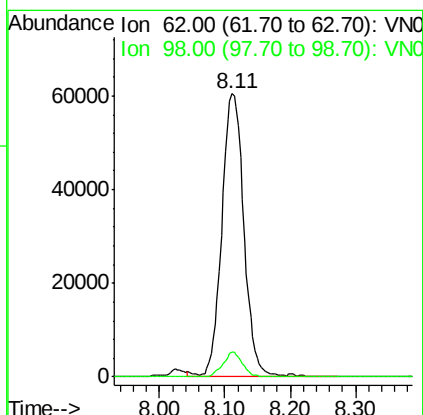
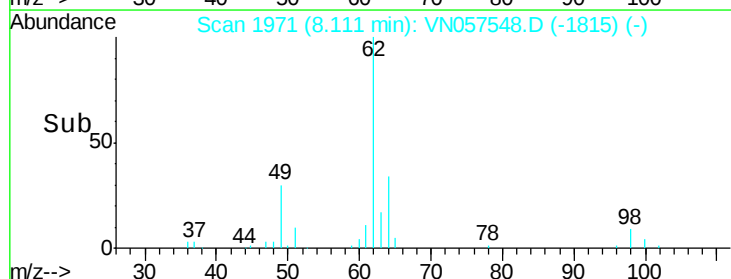
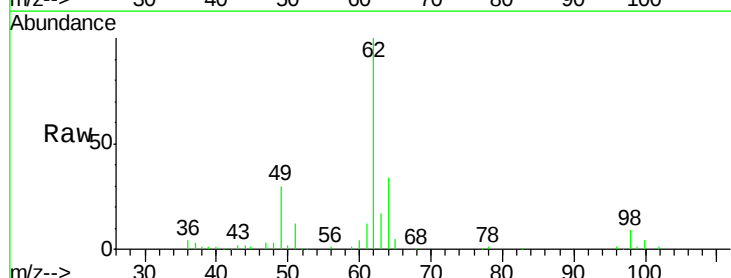
Manual Integrations
APPROVED

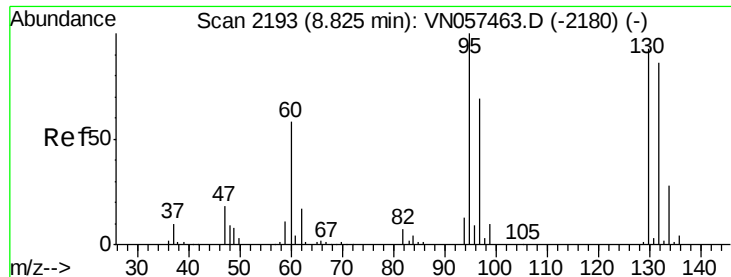
MMDadoda
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#36
1,2-Dichloroethane
Concen: 20.454 ug/l m
RT: 8.11 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100				
98	0.0	2.8	4.2#		





#37

Trichloroethene

Concen: 20.200 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:130 Resp: 81642

Ion Ratio Lower Upper

130 100

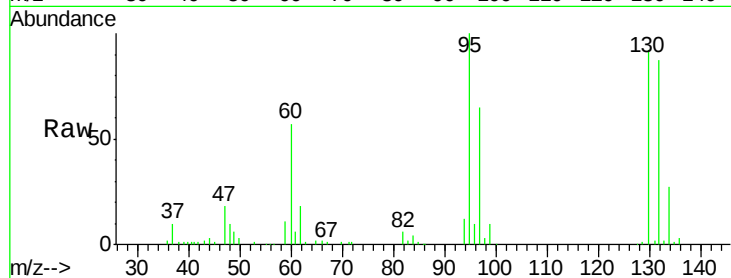
95 107.8 86.4 129.6

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.82

40000

30000

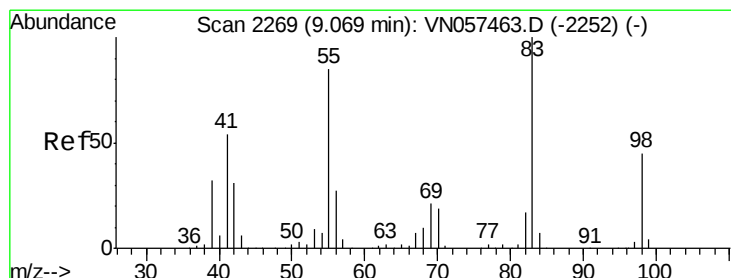
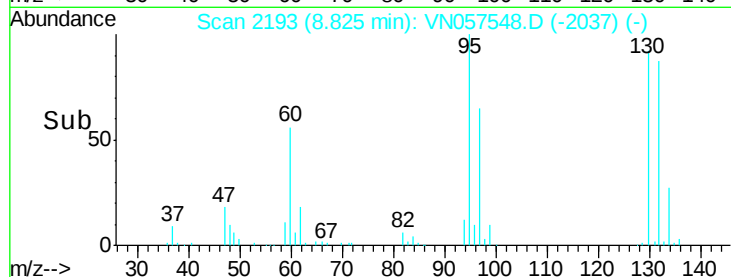
20000

10000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 19.626 ug/l

RT: 9.07 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

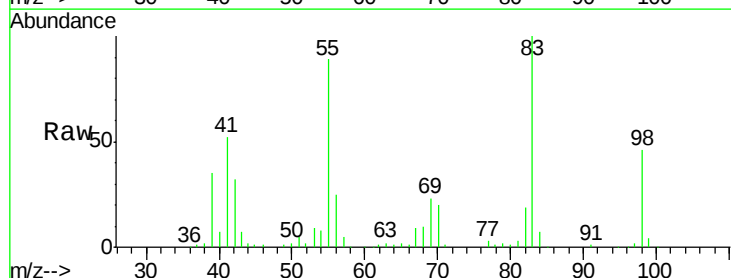
Tgt Ion: 83 Resp: 132706

Ion Ratio Lower Upper

83 100

55 86.8 43.3 129.8

98 46.3 22.8 68.4



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.07

80000

60000

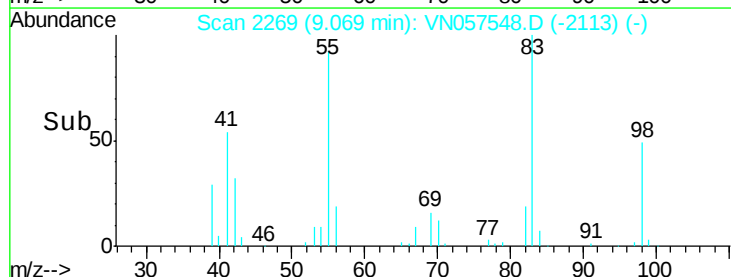
40000

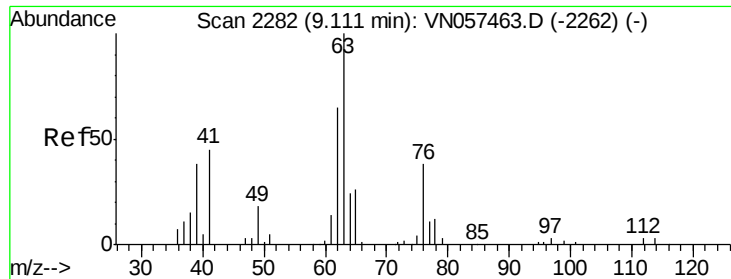
20000

0

9.00 9.05 9.10 9.15

Time-->





#39

1,2-Dichloropropane

Concen: 20.160 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 63 Resp: 101550

Ion Ratio Lower Upper

63 100

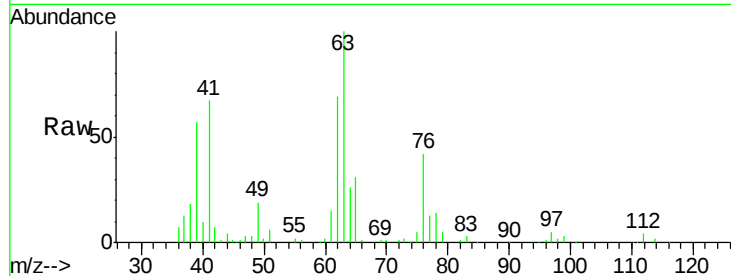
65 31.2 21.6 32.4

Manual Integrations

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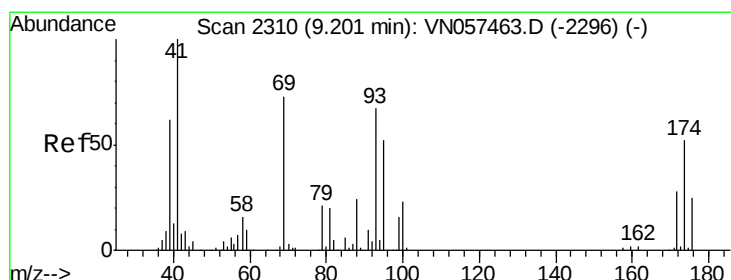
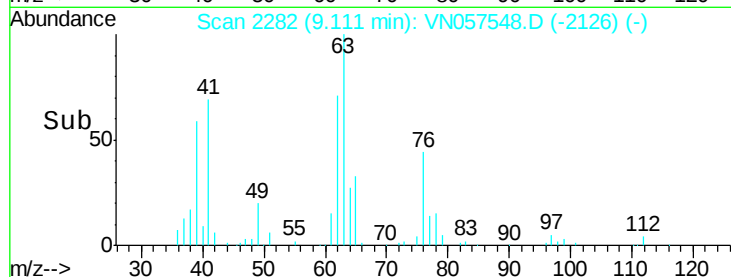
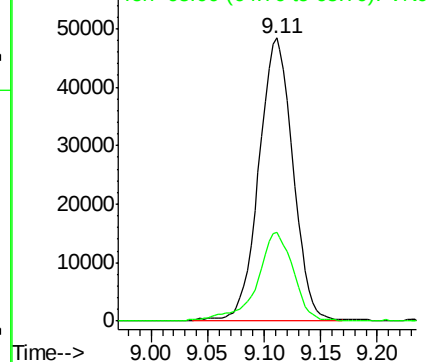
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 21.039 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

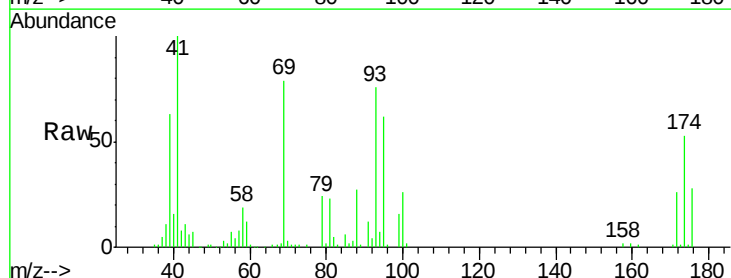
Tgt Ion: 93 Resp: 64768

Ion Ratio Lower Upper

93 100

95 80.7 0.0 160.8

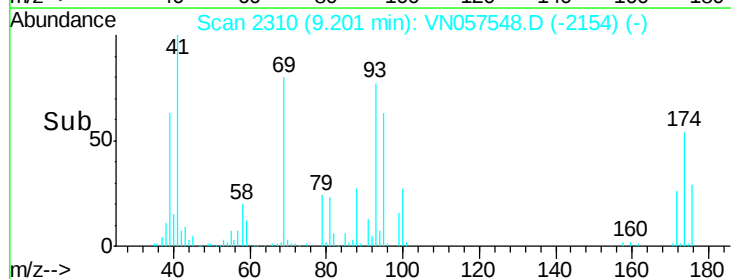
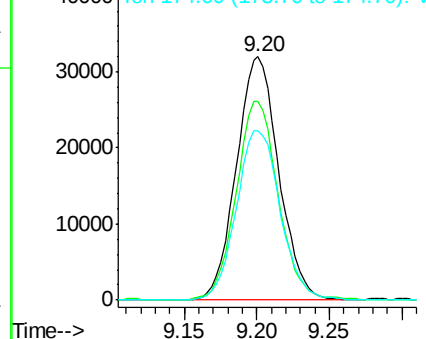
174 72.3 0.0 157.2

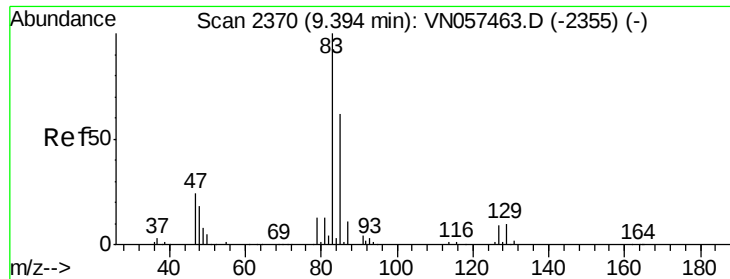


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





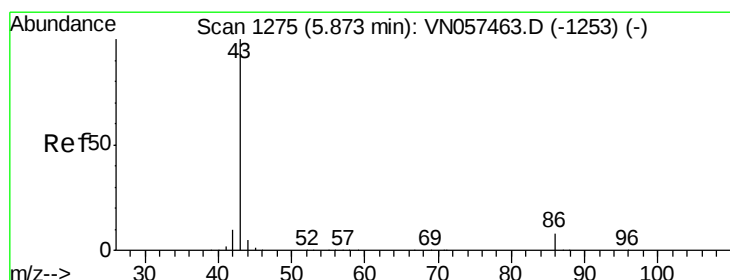
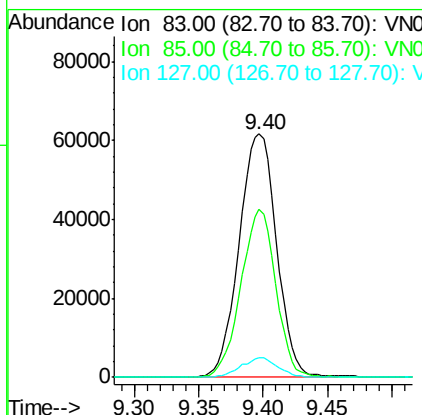
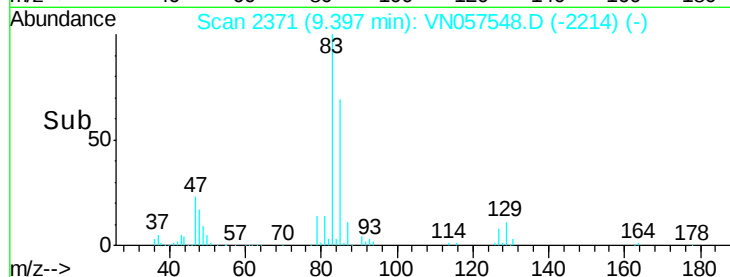
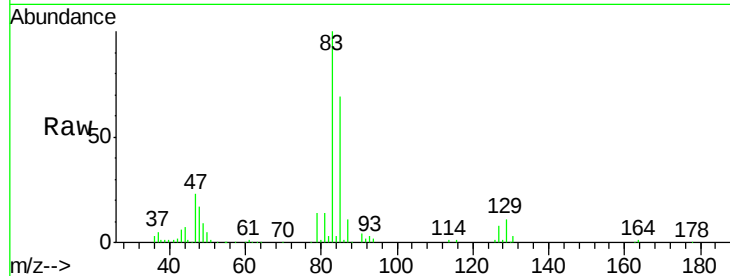
#41
Bromodichloromethane
Concen: 19.142 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	124980
Ion Ratio	100	Lower	Upper
83	100		
85	68.9	49.8	74.8
127	8.0	7.6	11.4

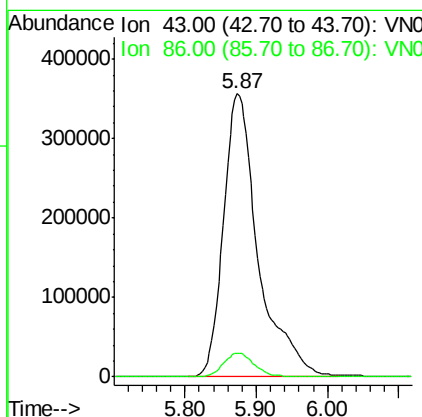
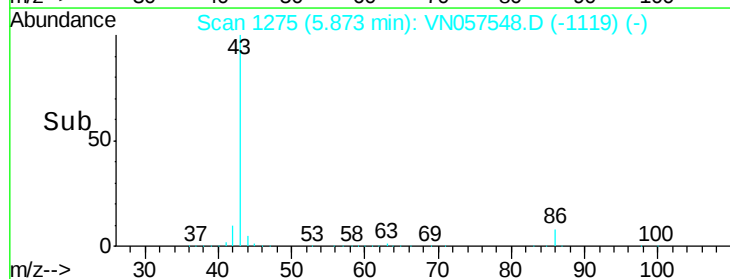
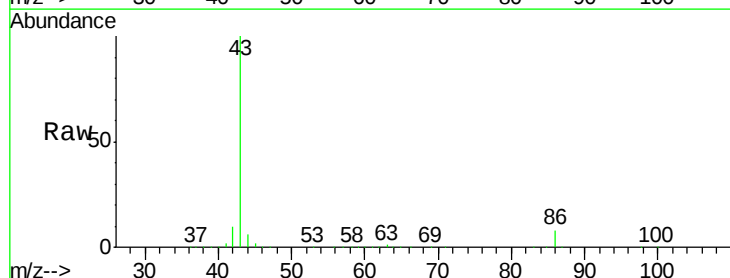
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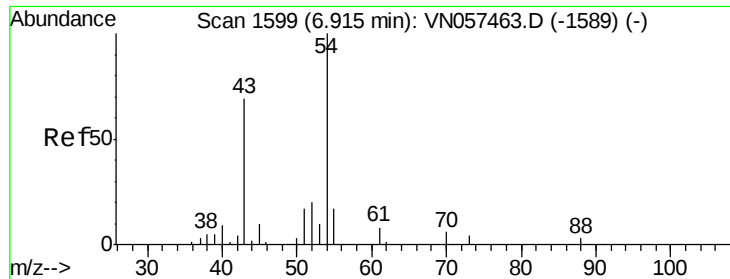
MMDadoda
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#42
Vinyl Acetate
Concen: 92.938 ug/l
RT: 5.87 min Scan# 1275
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	43	Resp	1204629
Ion Ratio	100	Lower	Upper
43	100		
86	7.4	5.7	8.5





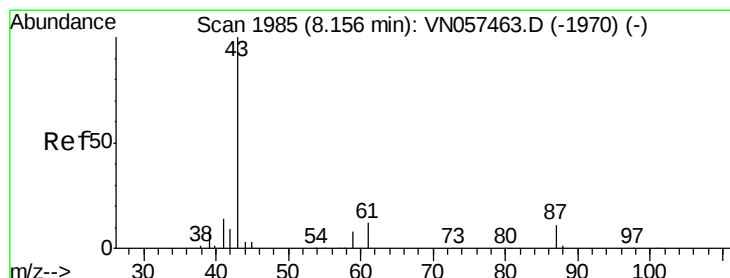
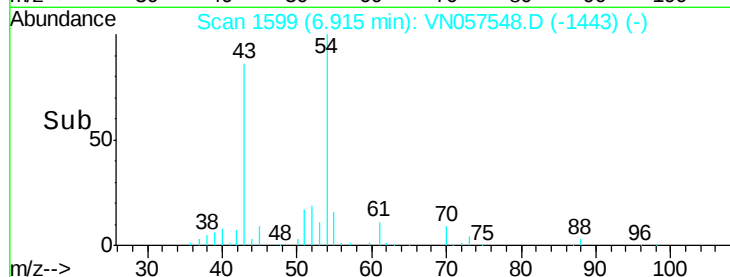
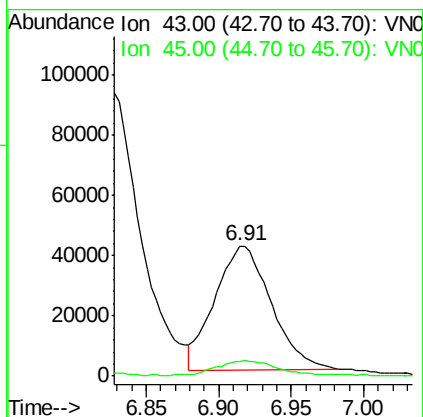
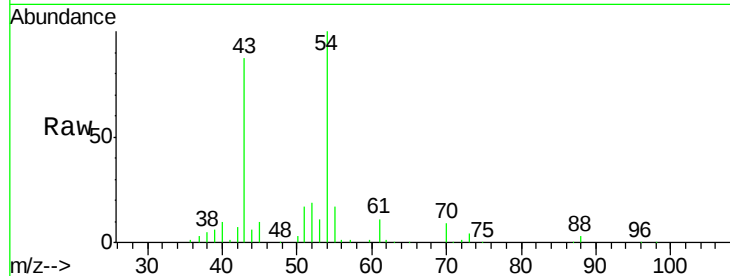
#43
Ethyl Acetate
Concen: 19.641 ug/l
RT: 6.91 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 43 Resp: 110735
Ion Ratio Lower Upper
43 100
45 12.2 11.0 16.4

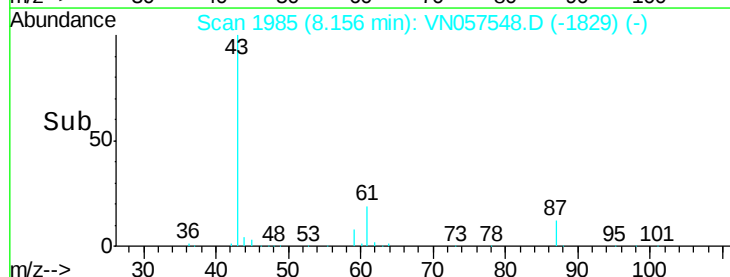
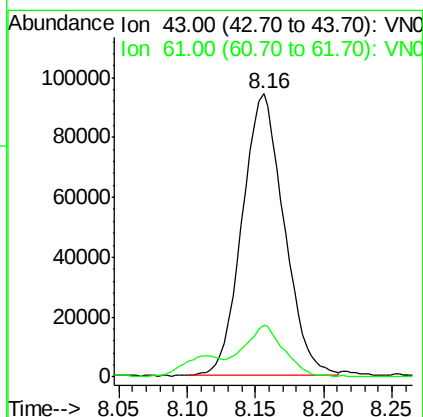
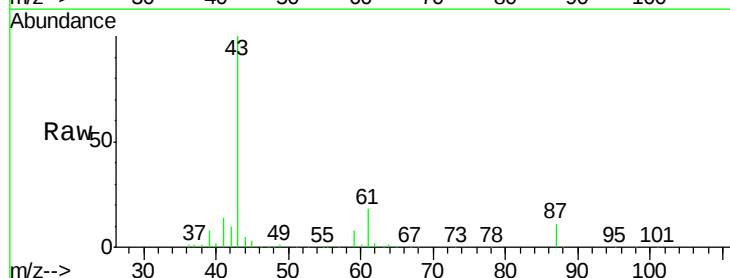
Manual Integrations
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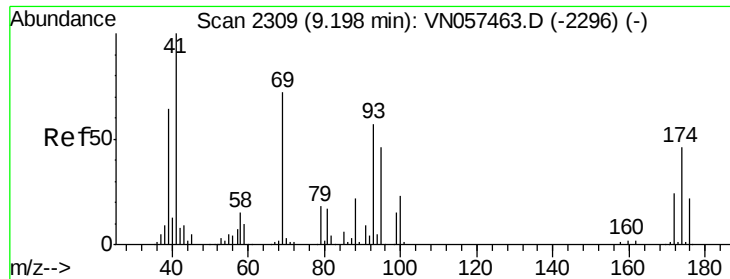
MMDadoda
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#44
Isopropyl Acetate
Concen: 18.667 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion: 43 Resp: 200902
Ion Ratio Lower Upper
43 100
61 16.8 0.1 0.1#





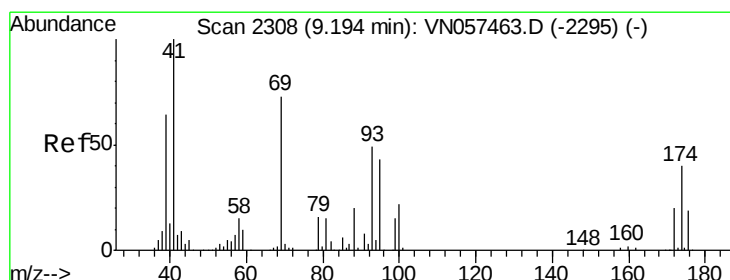
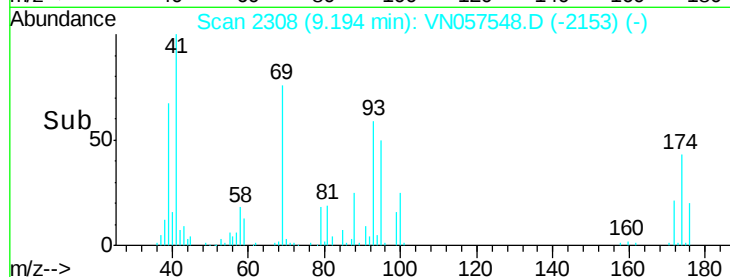
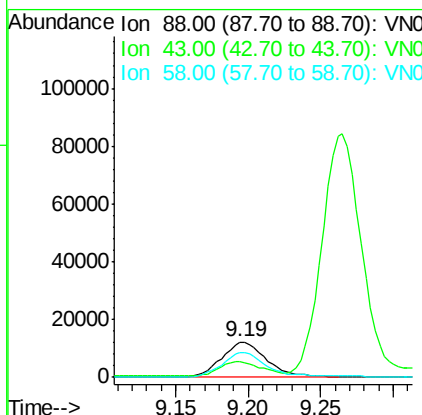
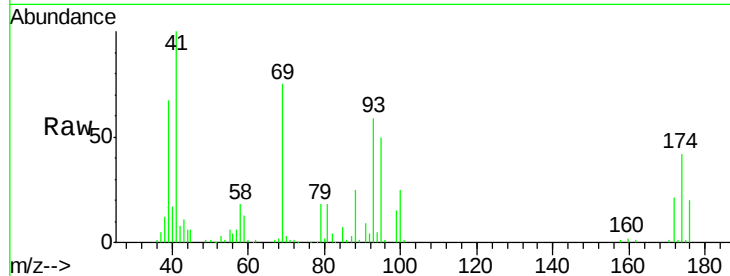
#45
1,4-Dioxane
Concen: 408.627 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. -0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	35.0	29.8	44.6
58	65.9	62.2	93.2

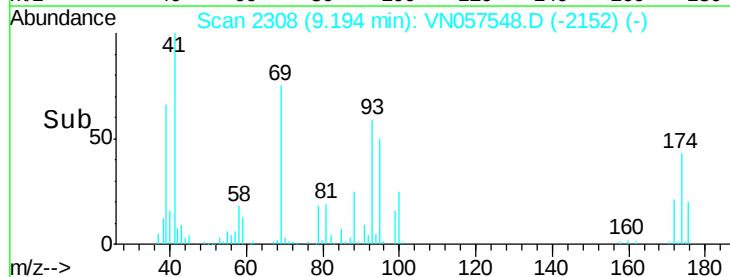
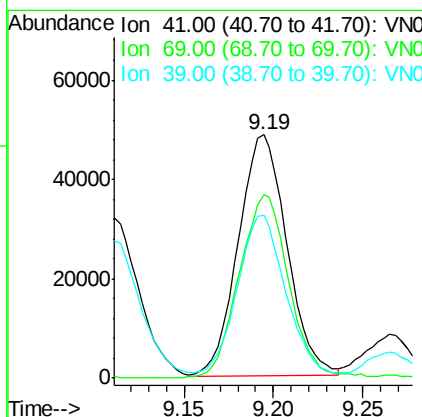
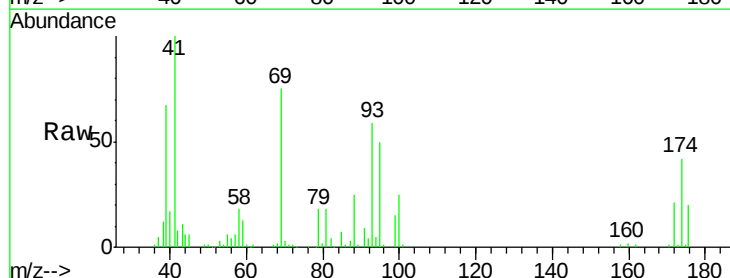
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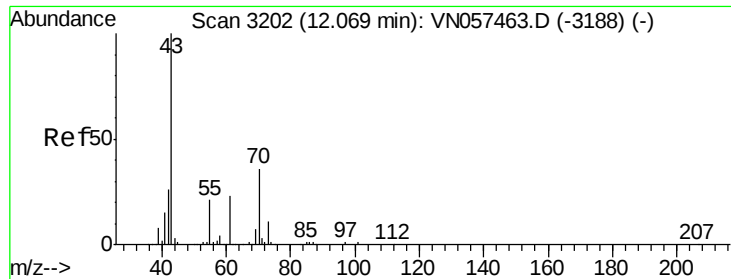
MMDadoda
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#46
Methyl methacrylate
Concen: 18.154 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
41	100		
69	75.9	36.5	109.5
39	65.5	32.1	96.3





#47

n-amvl Acetate

Concen: 16.660 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 144304

Ion Ratio Lower Upper

43 100

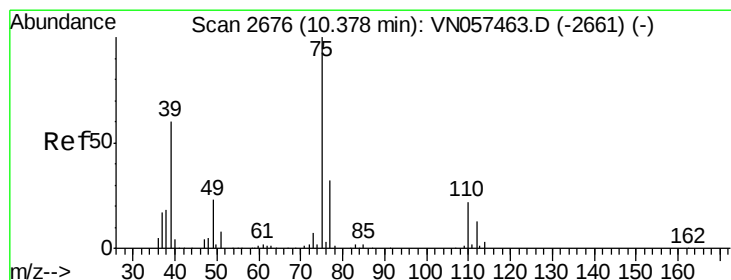
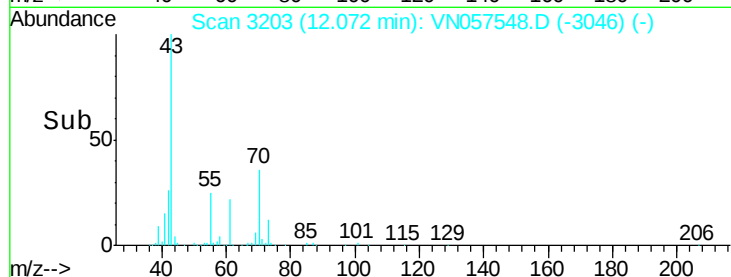
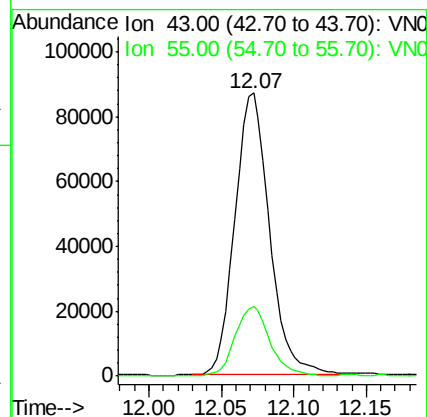
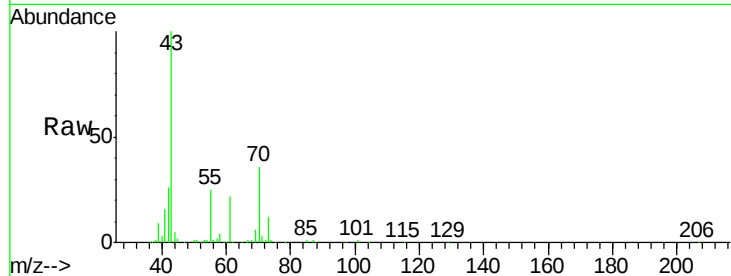
55 24.9 17.0 25.6

Manual Integrations

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#48

t-1,3-Dichloropropene

Concen: 17.575 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN057548.D

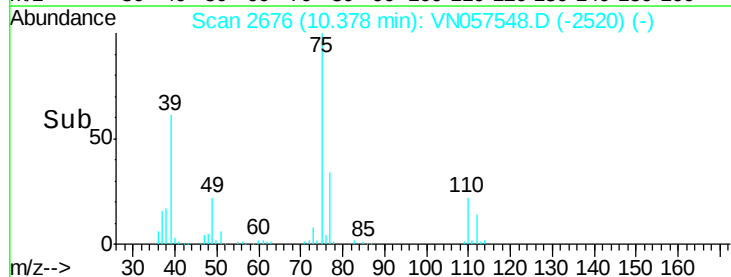
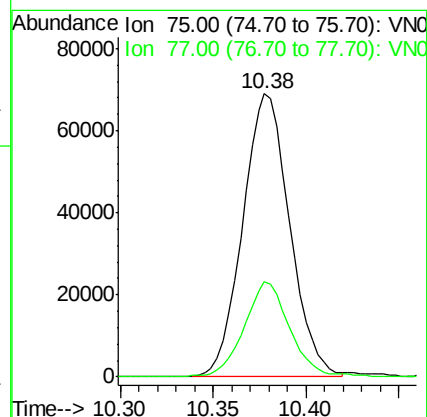
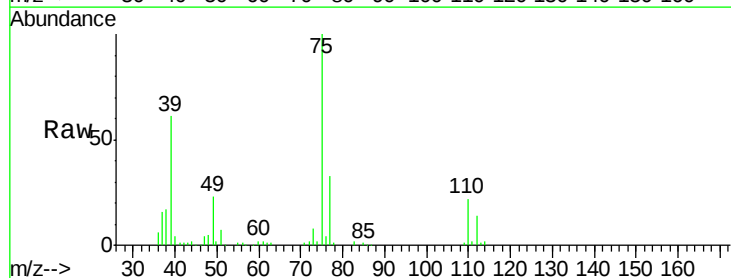
Acq: 27 Aug 2019 12:00

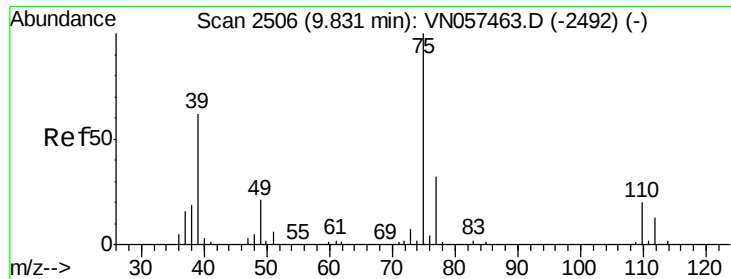
Tgt Ion: 75 Resp: 121222

Ion Ratio Lower Upper

75 100

77 33.0 25.7 38.5





#49

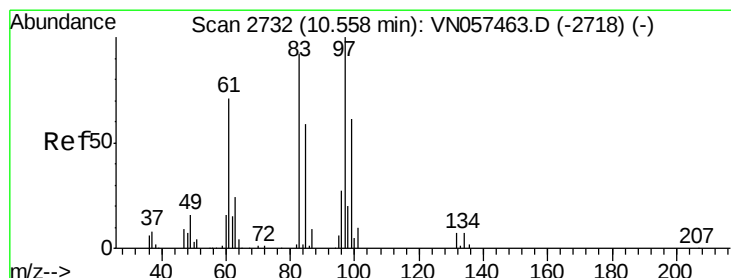
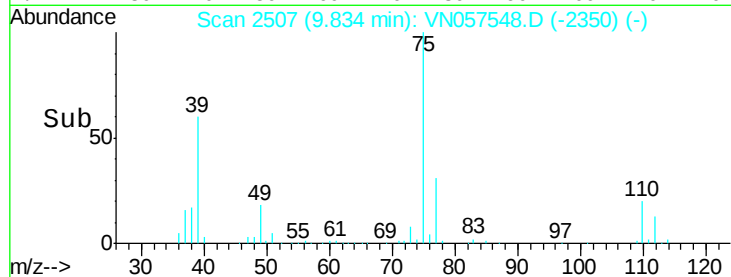
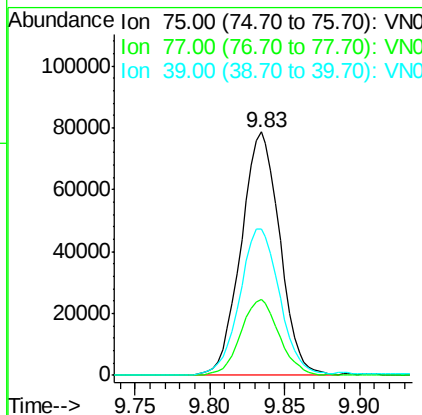
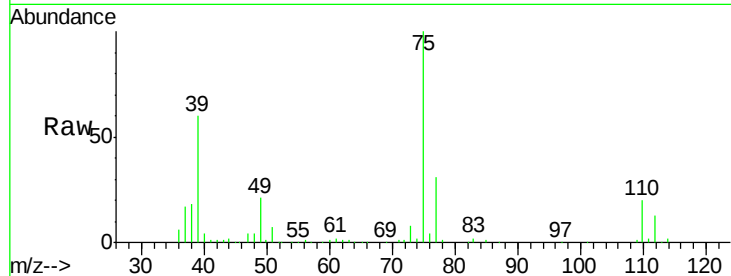
cis-1,3-Dichloropropene
 Concen: 18.748 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.0
39	60.0	49.8	74.6

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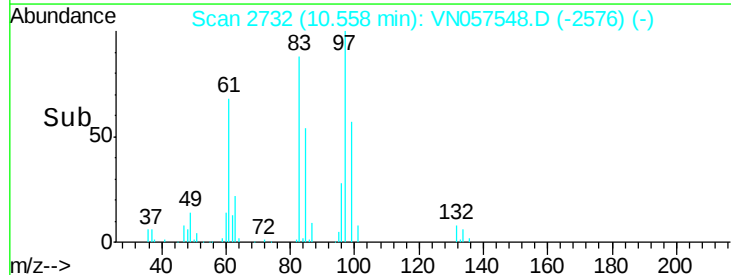
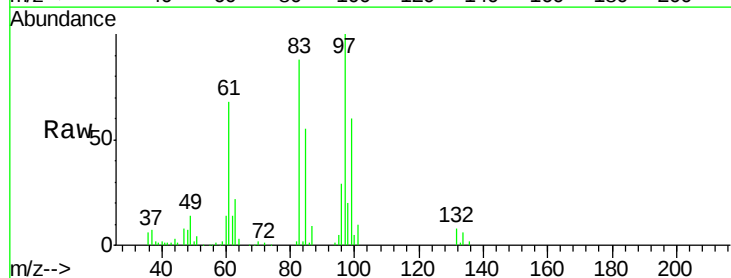
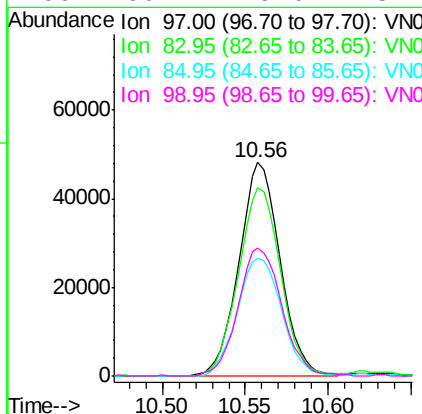
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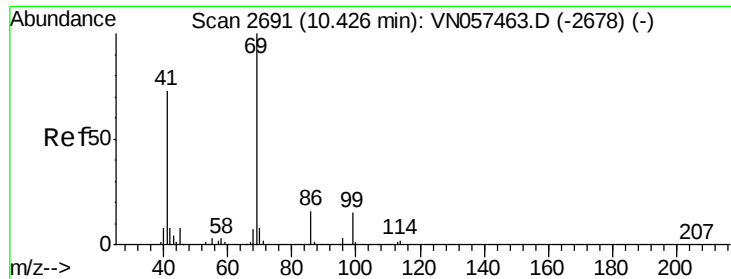


#50

1,1,2-Trichloroethane
 Concen: 20.578 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.9	73.2	109.8
85	55.2	47.1	70.7
99	60.1	49.0	73.4





#51

Ethyl methacrylate

Concen: 18.577 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

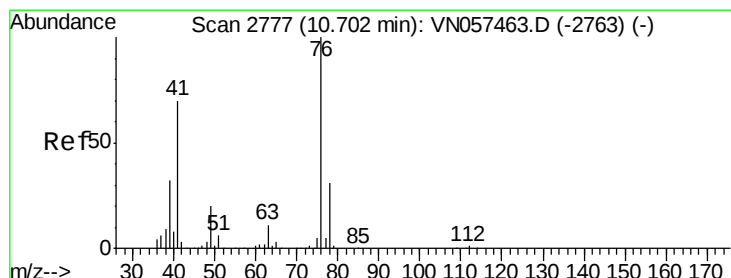
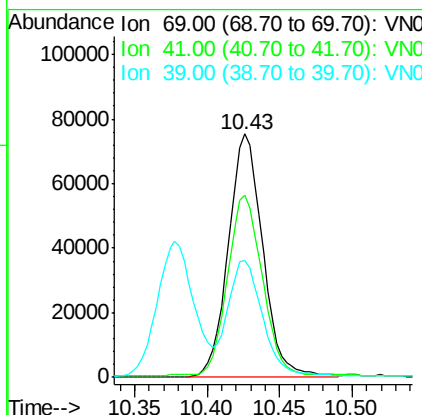
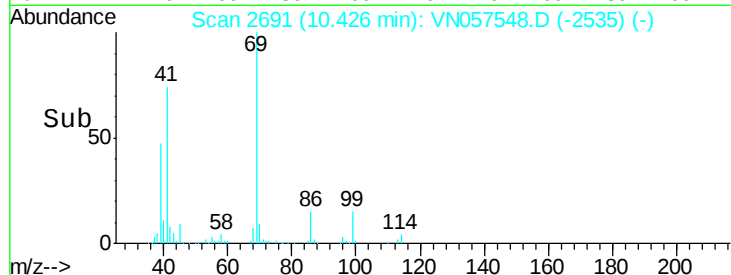
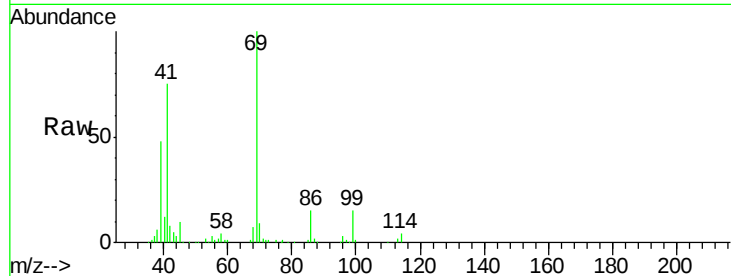
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	124662
Ion	Ratio	Lower	Upper
69	100		
41	73.9	37.0	111.1
39	47.4	24.4	73.4

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 19.737 ug/l

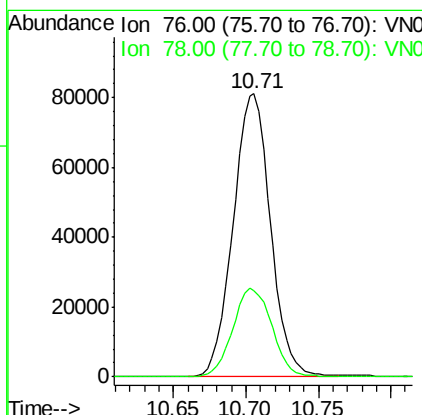
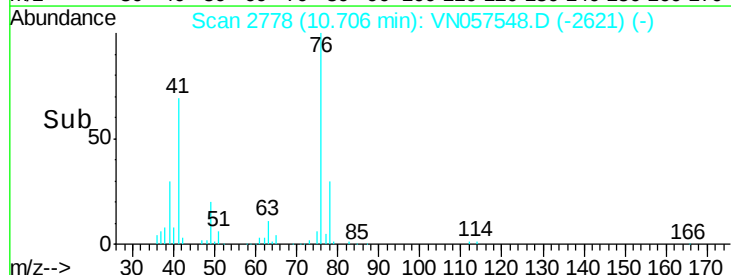
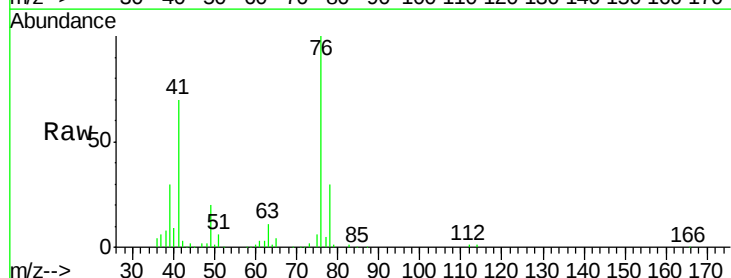
RT: 10.71 min Scan# 2778

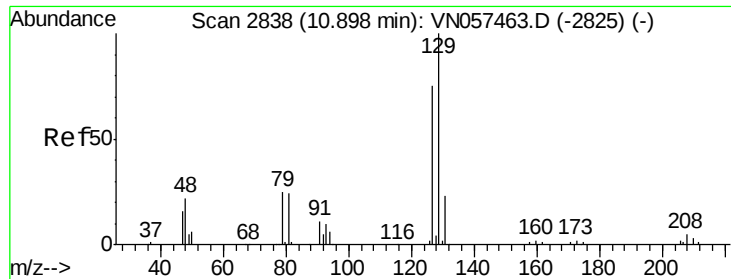
Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Tgt Ion:	76	Resp:	145260
Ion	Ratio	Lower	Upper
76	100		
78	32.8	0.0	63.0





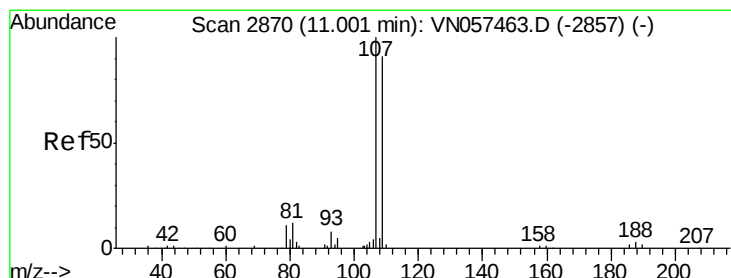
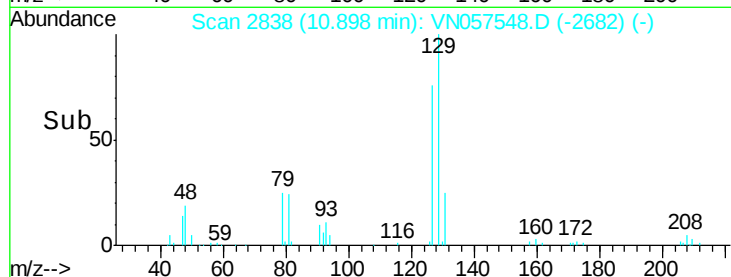
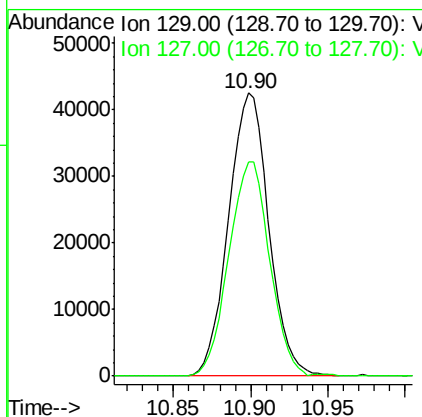
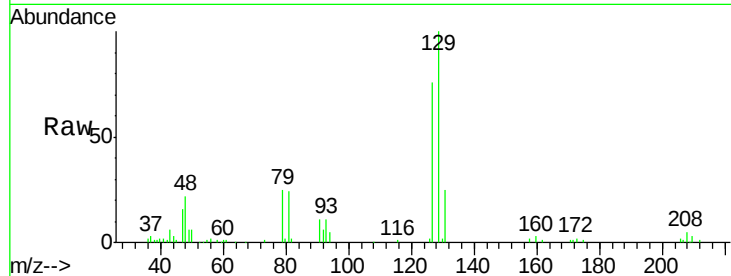
#53
Dibromochloromethane
Concen: 17.854 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:129 Resp: 76835
Ion Ratio Lower Upper
129 100
127 76.7 38.1 114.3

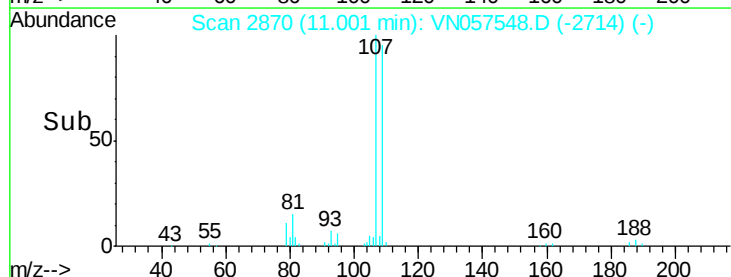
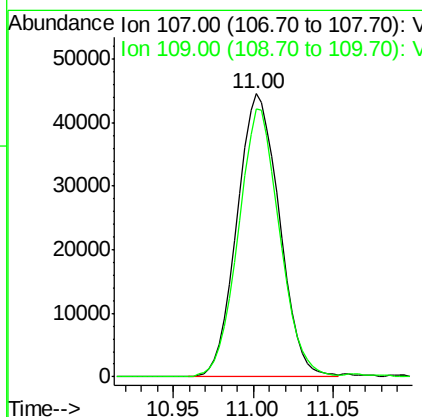
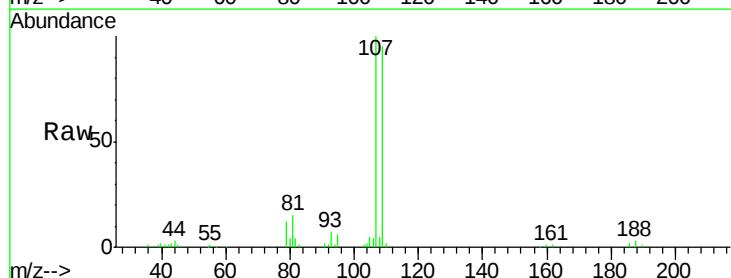
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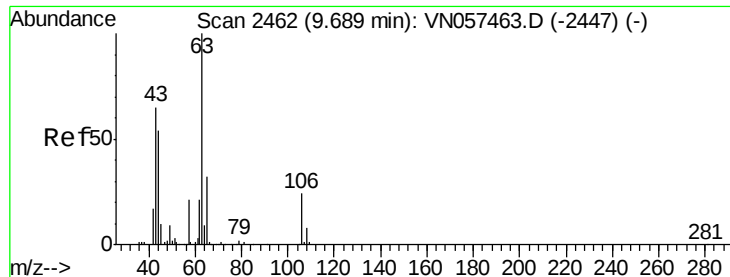
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#54
1,2-Dibromoethane
Concen: 19.460 ug/l
RT: 11.00 min Scan# 2870
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion:107 Resp: 80379
Ion Ratio Lower Upper
107 100
109 92.5 73.2 109.8





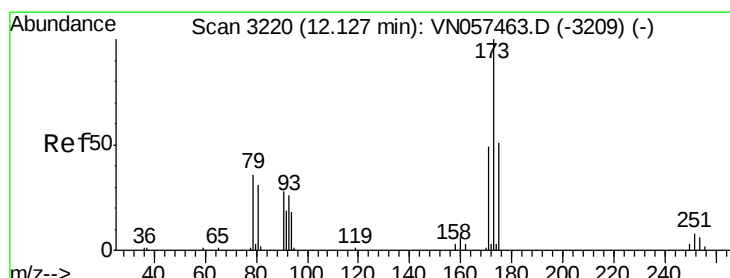
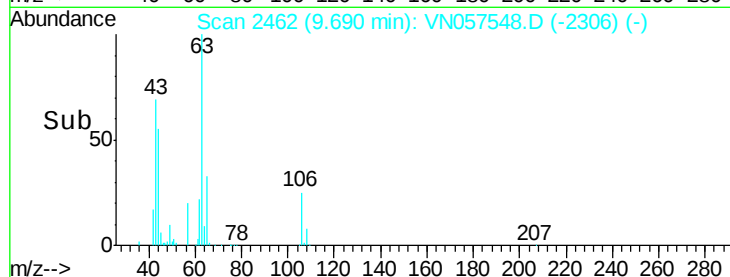
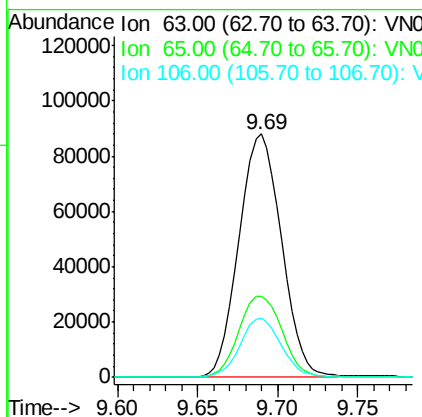
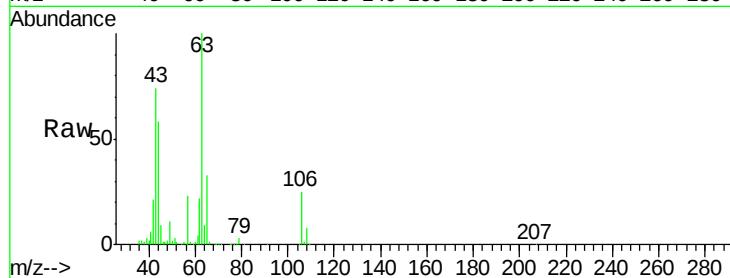
#55
2-Chloroethyl vinyl ether
Concen: 96.873 ug/l
RT: 9.69 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.9	25.1	37.7
106	23.5	18.7	28.1

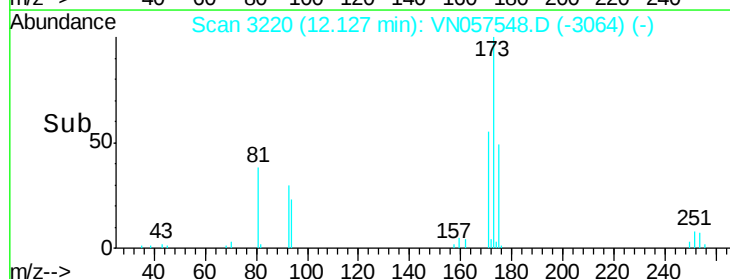
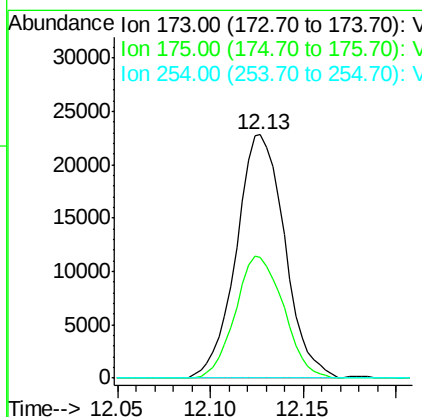
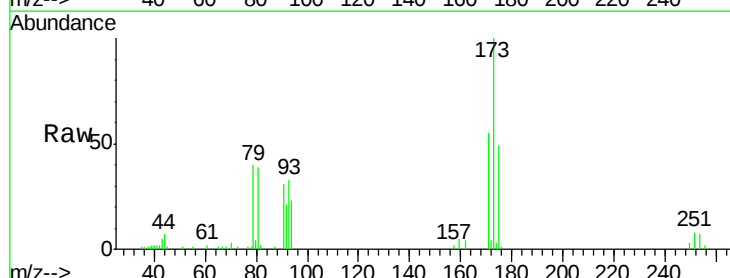
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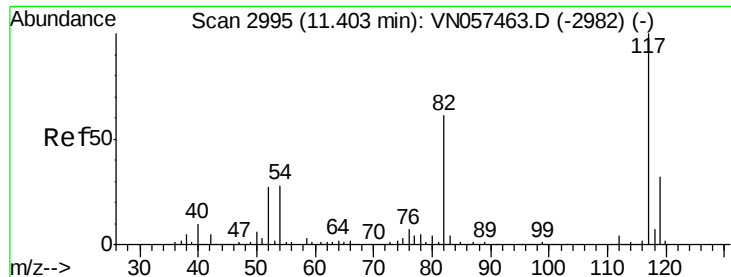
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#56
Bromoform
Concen: 16.182 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.9	40.1	60.1
254	0.0	0.0	0.0





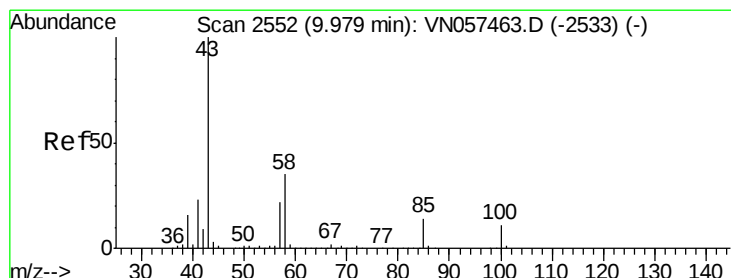
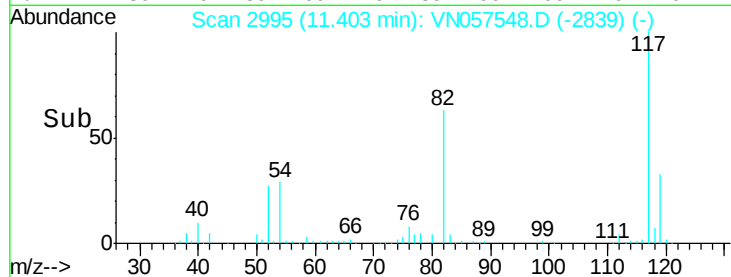
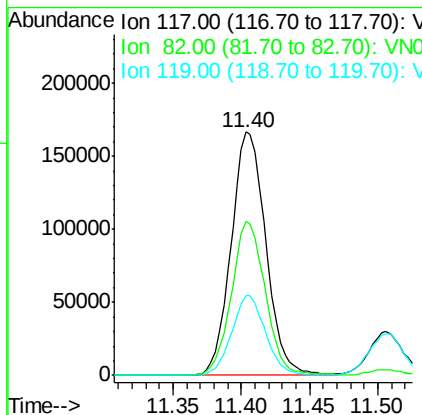
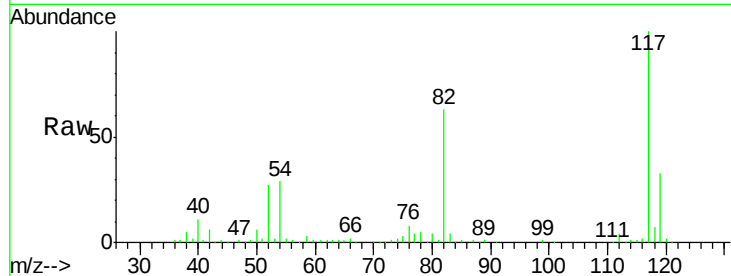
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.8	50.4	75.6
119	31.8	25.4	38.2

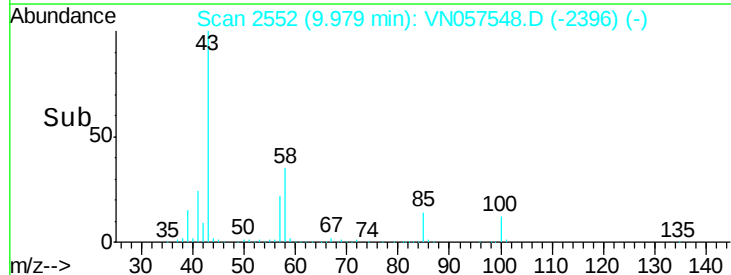
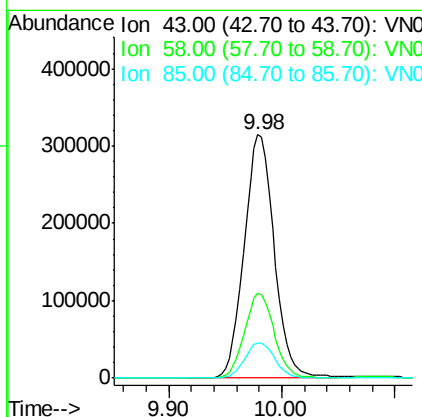
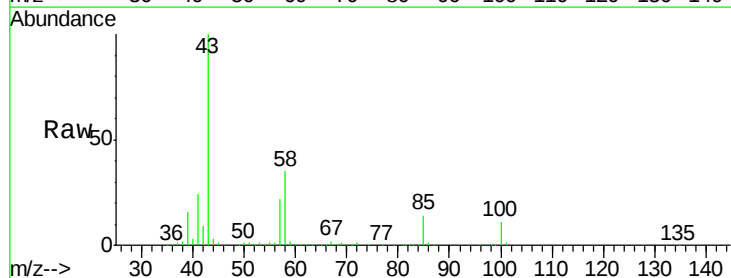
Manual Integrations
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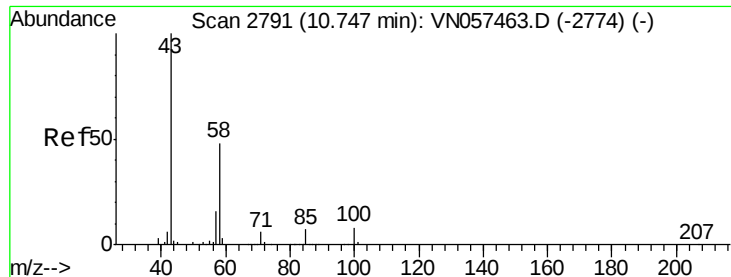
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#58
4-Methyl-2-Pentanone
Concen: 100.666 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.5	28.0	42.0
85	14.6	11.3	16.9





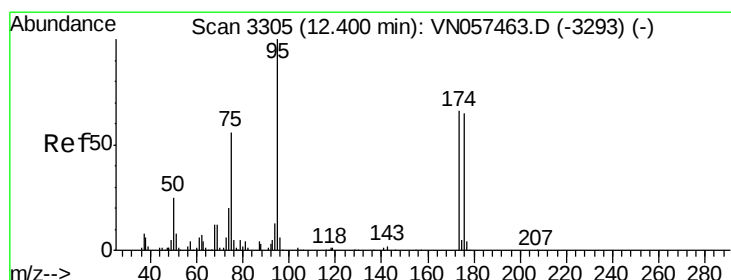
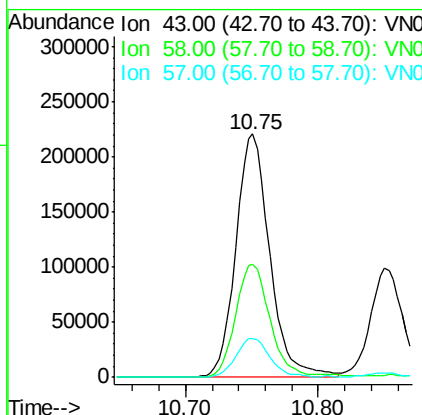
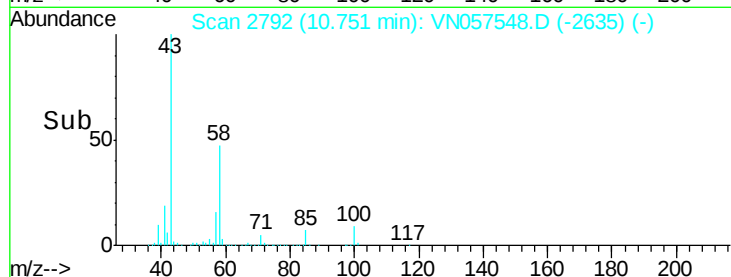
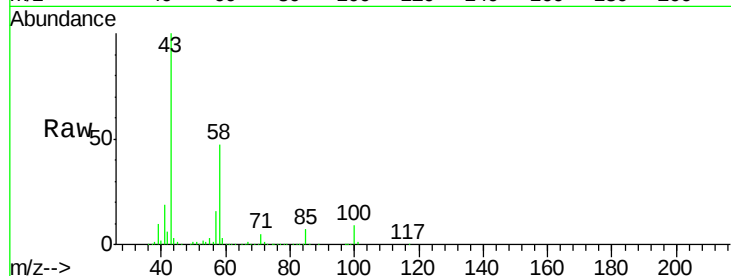
#59
2-Hexanone
Concen: 97.427 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.5	38.9	58.3
57	16.2	13.0	19.4

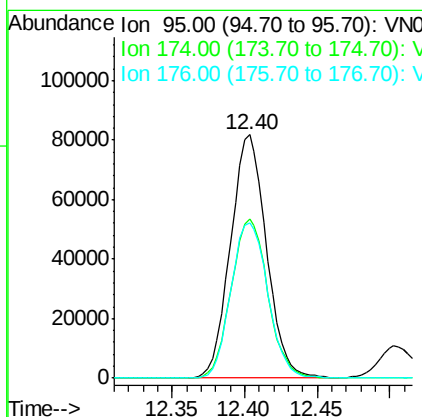
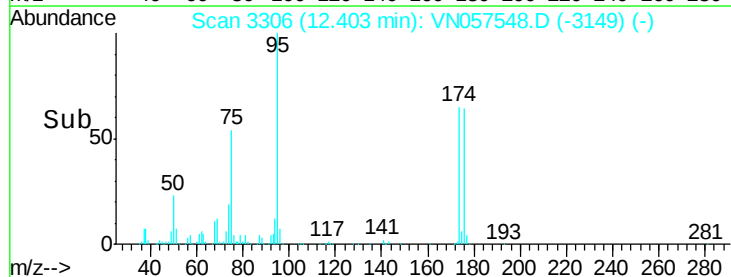
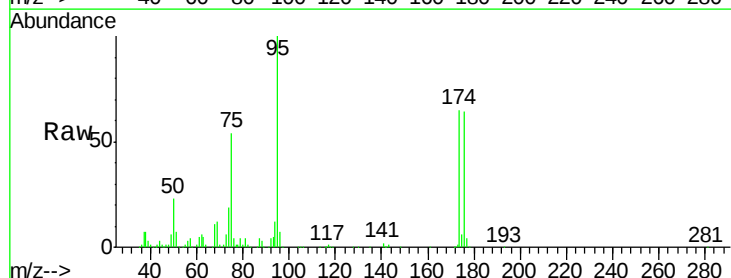
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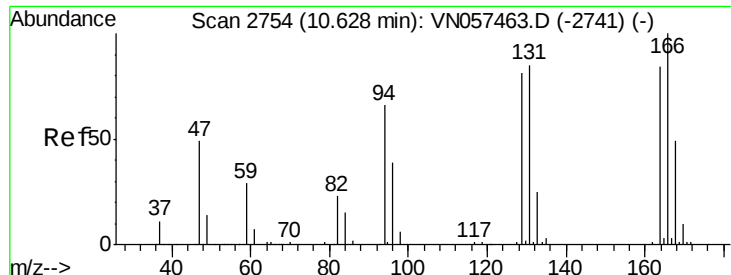
MMDadoda
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#60
4-Bromofluorobenzene
Concen: 29.047 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.5	54.9	82.3
176	65.5	54.2	81.4





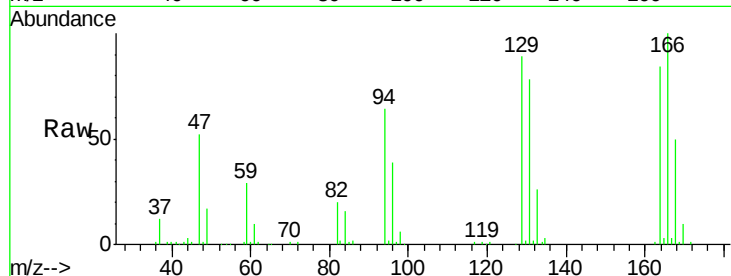
#61
Tetrachloroethene
Concen: 22.046 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
164	100		
166	119.7	95.8	143.6
129	106.1	77.2	115.8
131	92.9	81.1	121.7

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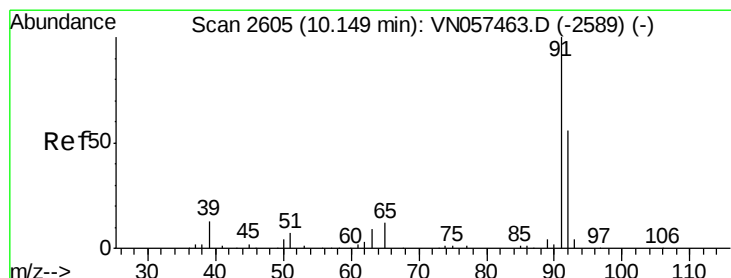
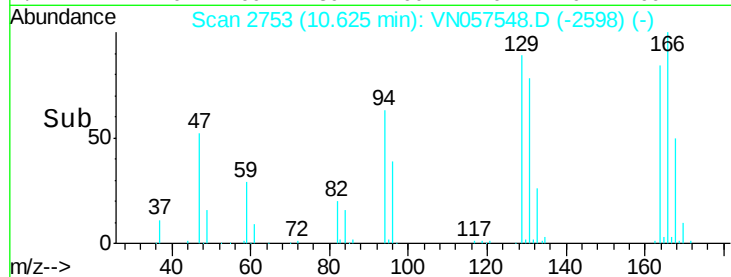
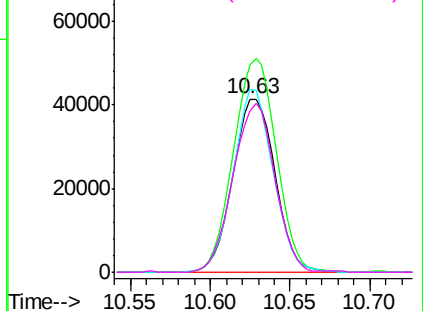


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

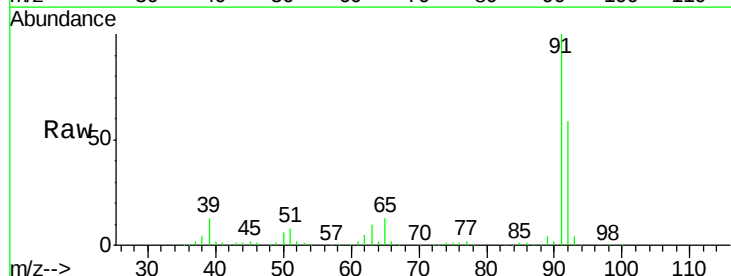
Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



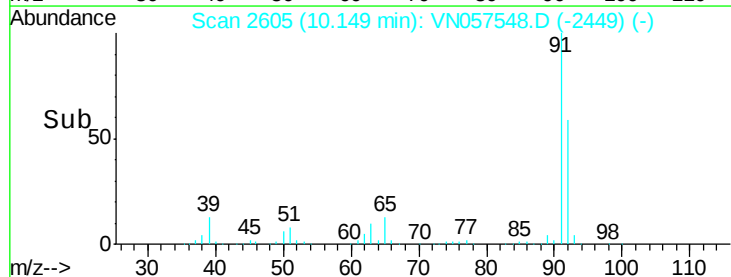
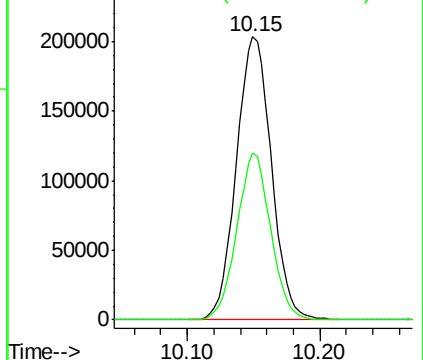
#62
Toluene
Concen: 20.750 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

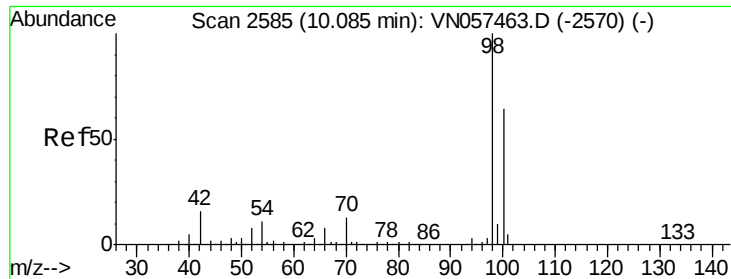
Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.8	45.4	68.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 30.723 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 98 Resp: 457029

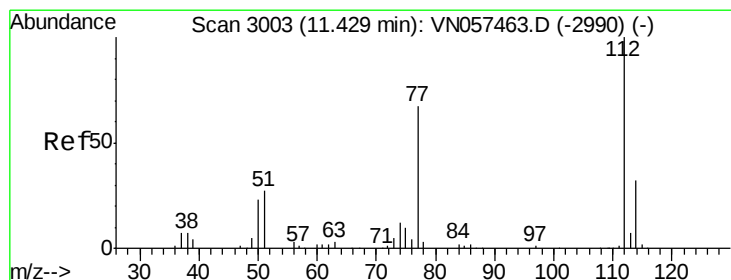
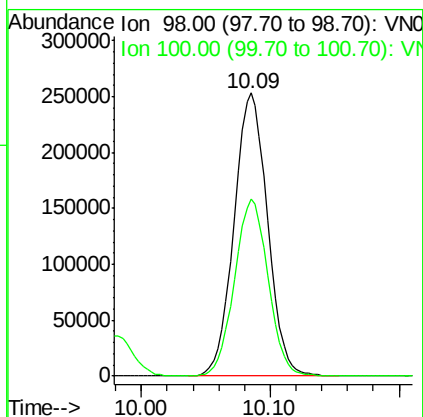
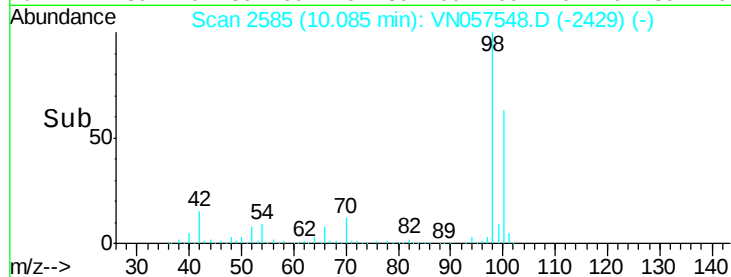
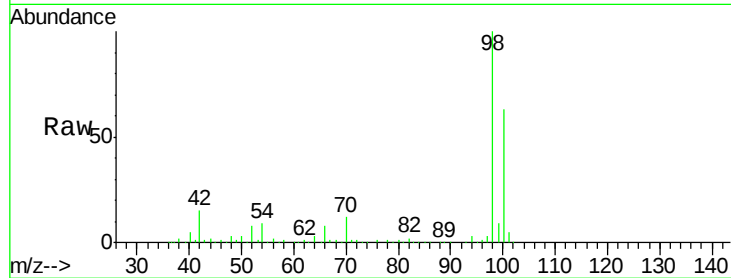
Ion Ratio Lower Upper

98 100

100 62.4 51.0 76.6

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#64

Chlorobenzene

Concen: 20.890 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. 0.00 min

Lab File: VN057548.D

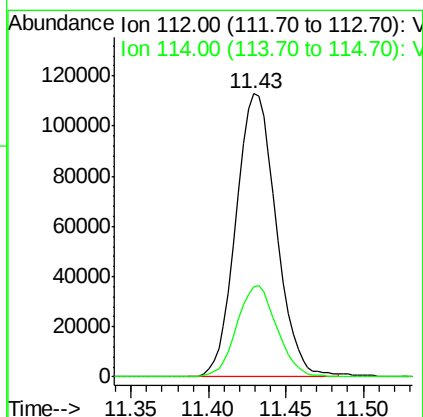
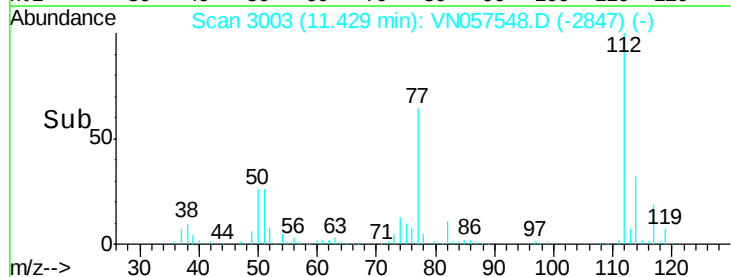
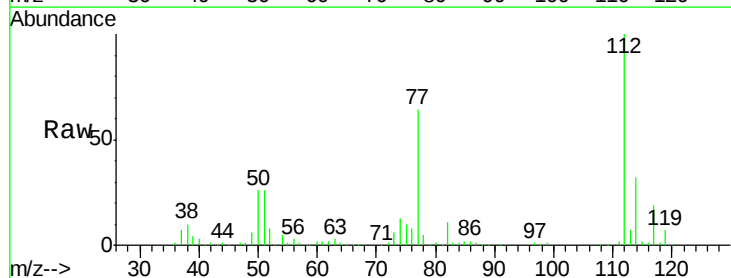
Acq: 27 Aug 2019 12:00

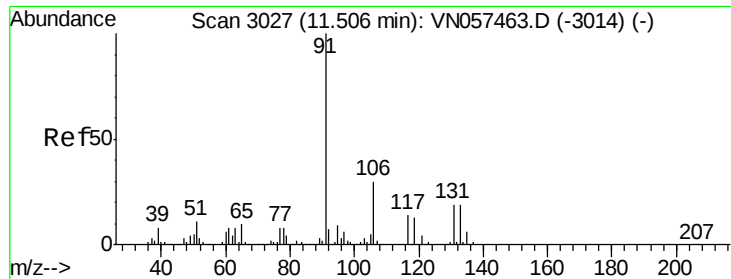
Tgt Ion: 112 Resp: 204463

Ion Ratio Lower Upper

112 100

114 31.6 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 19.687 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

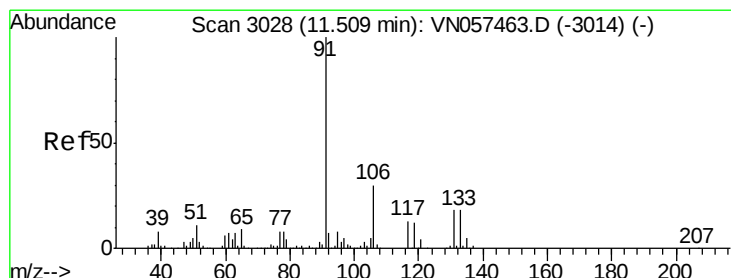
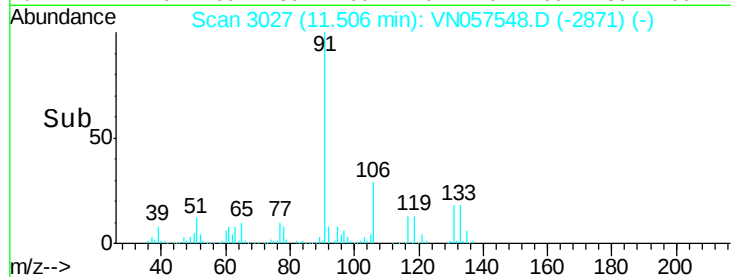
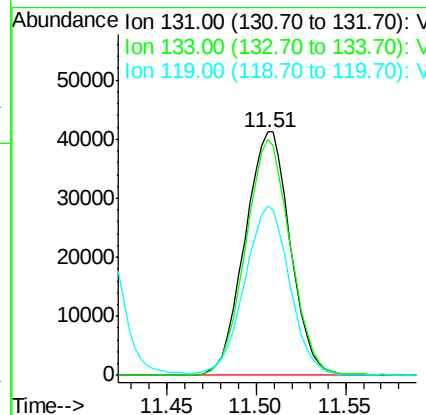
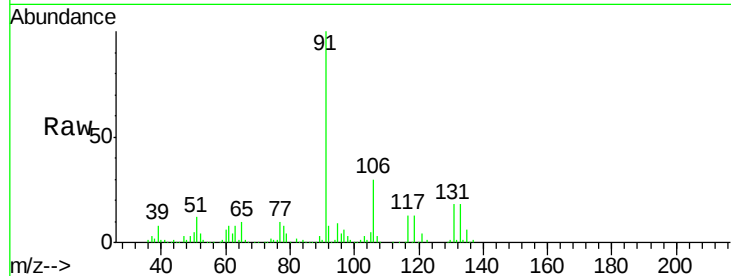
ClientSampleId :

VSTDCCC020EC

Tot Ion:	131	Resp:	73227
Ion Ratio	Lower	Upper	
131	100		
133	95.6	0.0	193.6
119	69.4	0.0	137.4

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#66

Ethyl Benzene

Concen: 20.461 ug/l

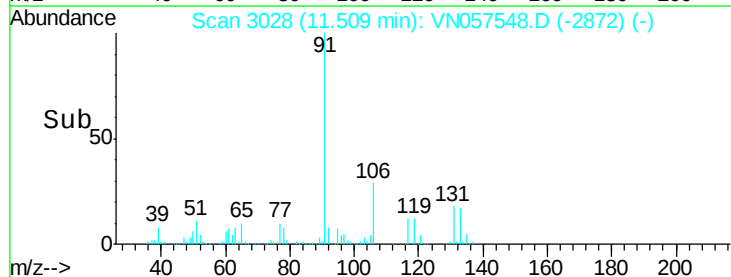
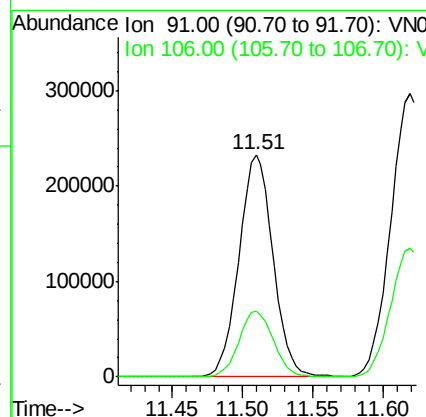
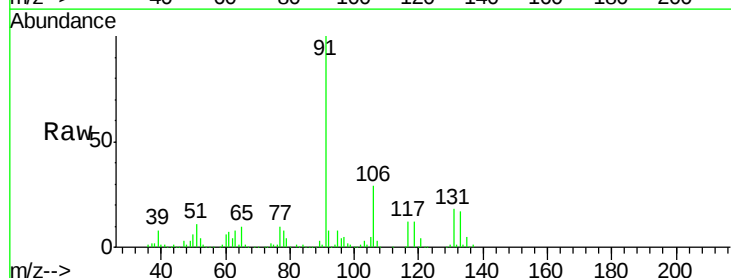
RT: 11.51 min Scan# 3028

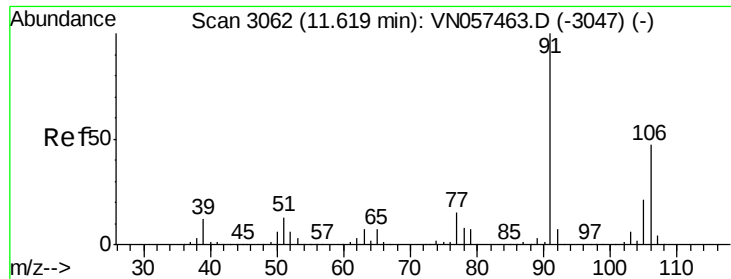
Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Tgt Ion:	91	Resp:	394238
Ion Ratio	Lower	Upper	
91	100		
106	29.3	23.6	35.4





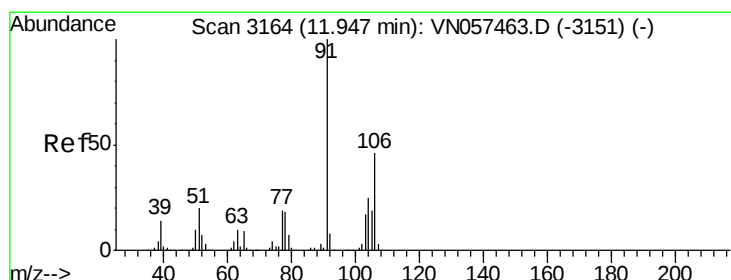
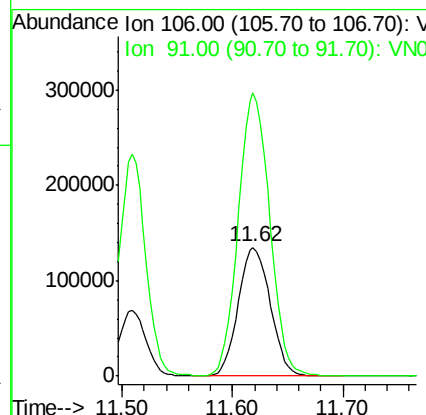
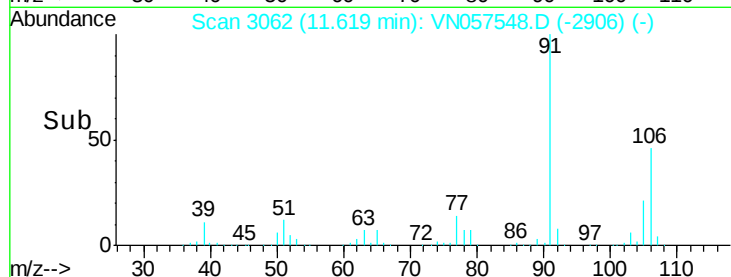
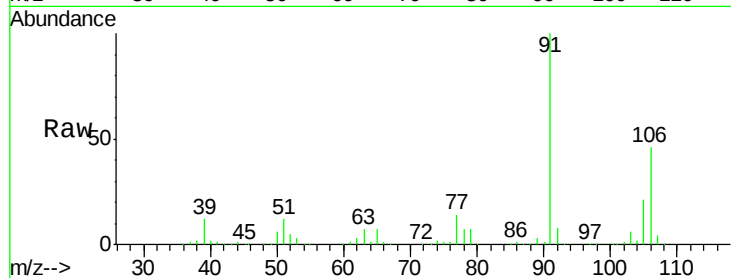
#67
m/p-Xylenes
Concen: 40.855 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:106 Resp: 273034
Ion Ratio Lower Upper
106 100
91 214.9 172.9 259.3

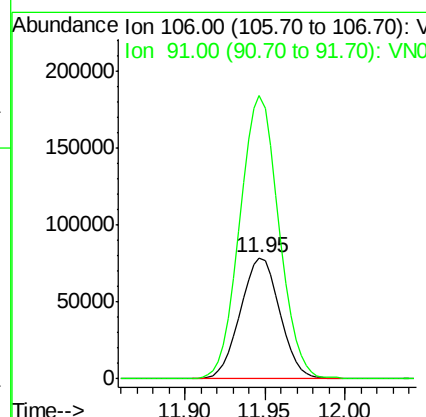
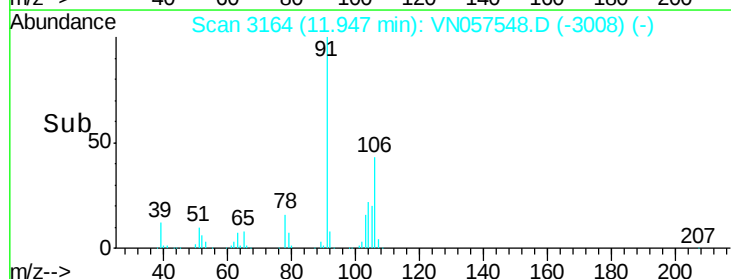
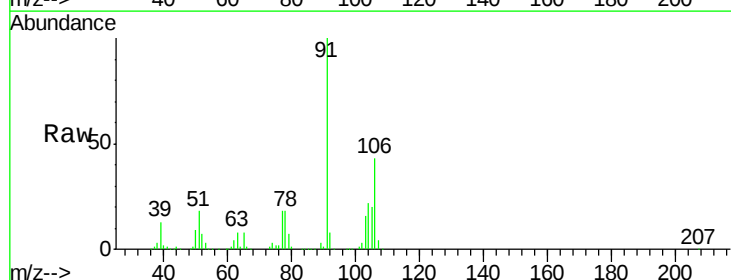
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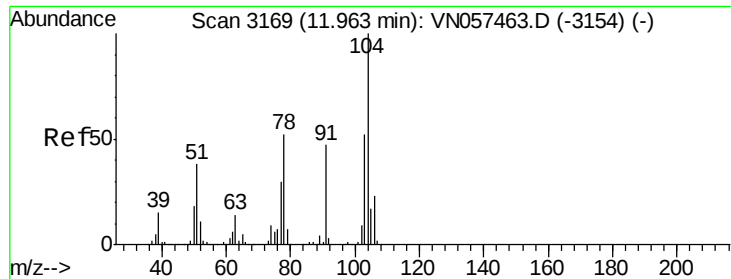
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#68
o-Xylene
Concen: 20.044 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion:106 Resp: 132378
Ion Ratio Lower Upper
106 100
91 231.2 111.1 333.4





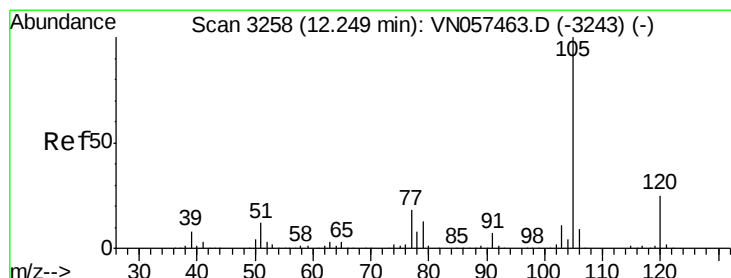
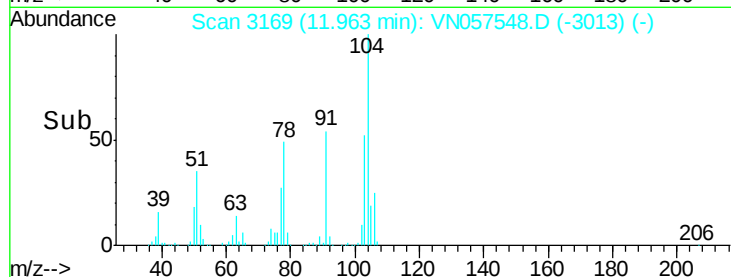
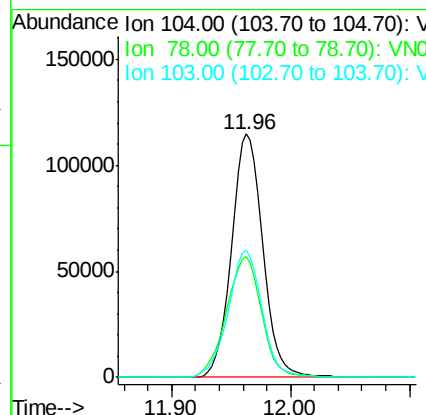
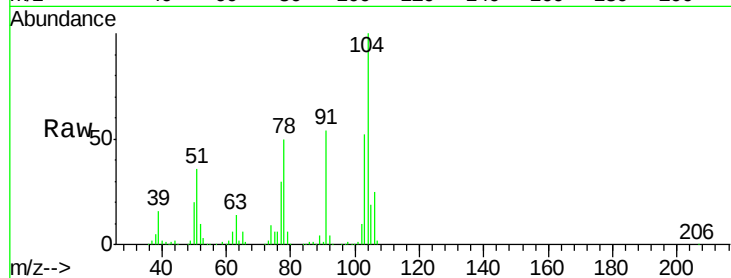
#69
Stvrene
Concen: 19.822 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.8	46.5	69.7
103	56.0	45.9	68.9

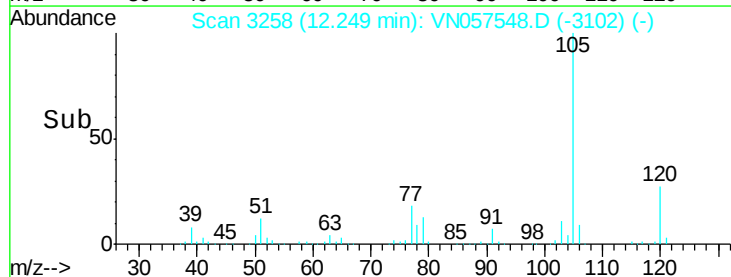
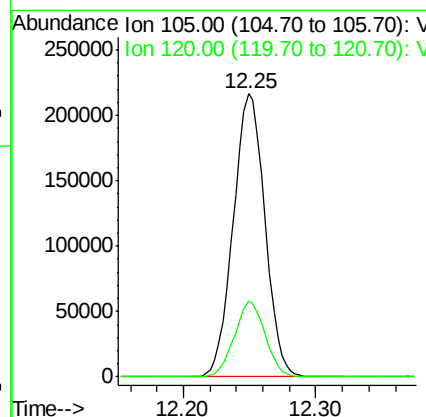
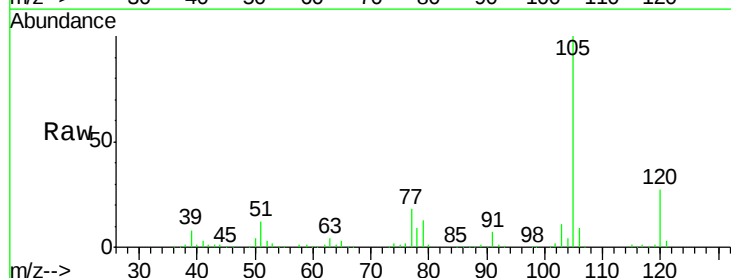
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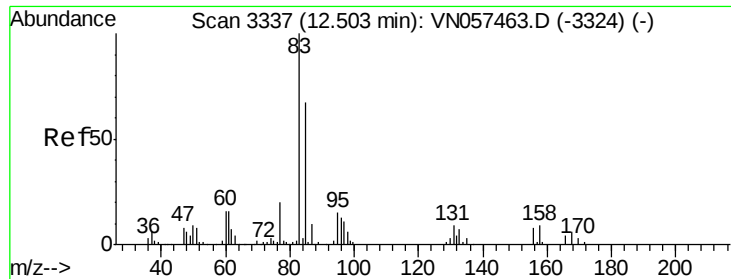
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#70
Isopropylbenzene
Concen: 20.306 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.0	17.8	33.1





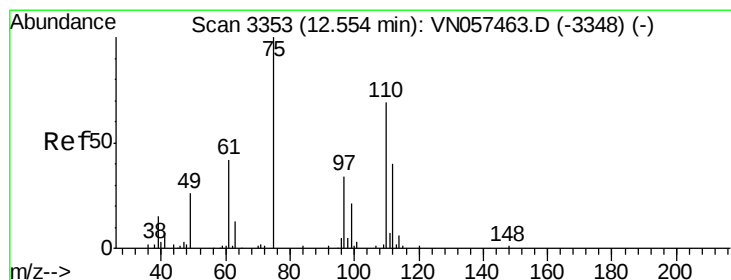
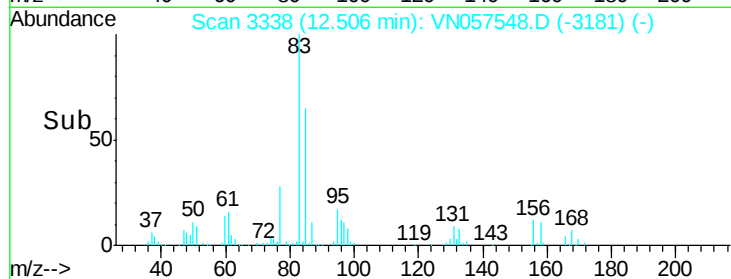
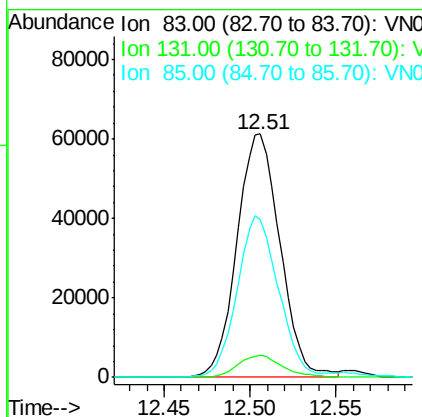
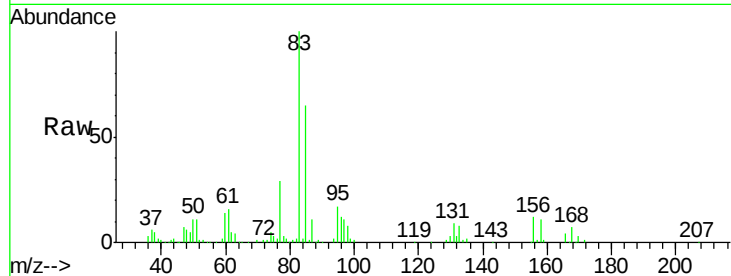
#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.944 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	83	Resp	107007
Ion Ratio	100	Lower	Upper
83	100		
131	9.2	4.7	14.1
85	63.8	33.1	99.2

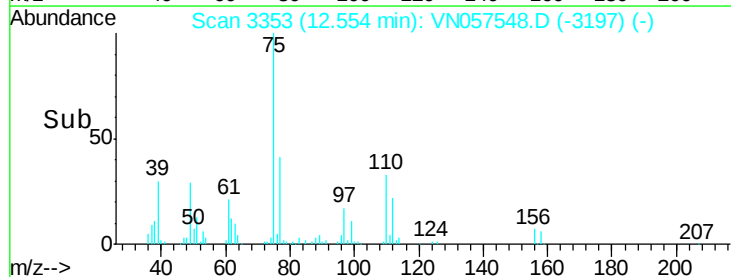
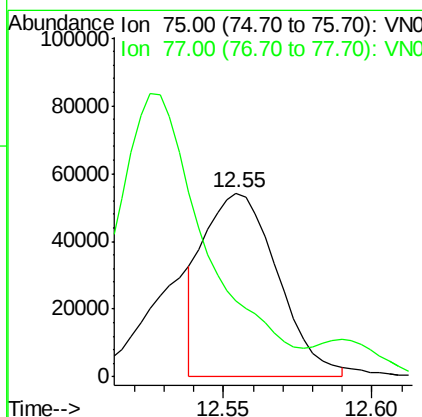
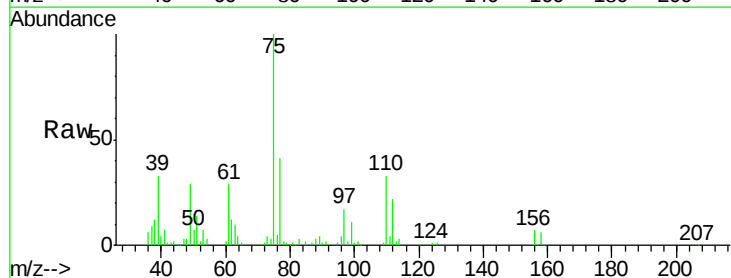
Manual Integrations
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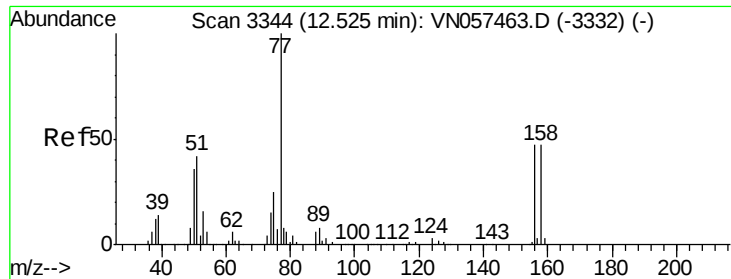
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#72
 1,2,3-Trichloropropane
 Concen: 20.109 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Tgt Ion	75	Resp	93266
Ion Ratio	100	Lower	Upper
75	100		
77	190.3	0.0	380.2





#73

Bromobenzene

Concen: 20.063 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

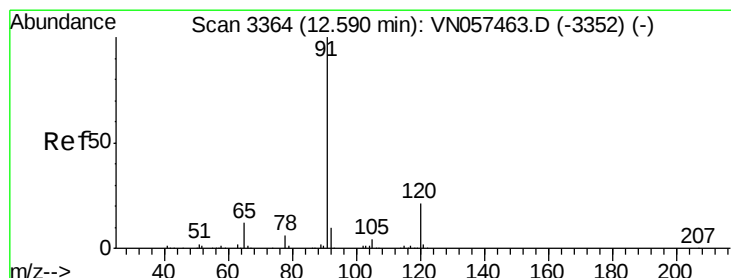
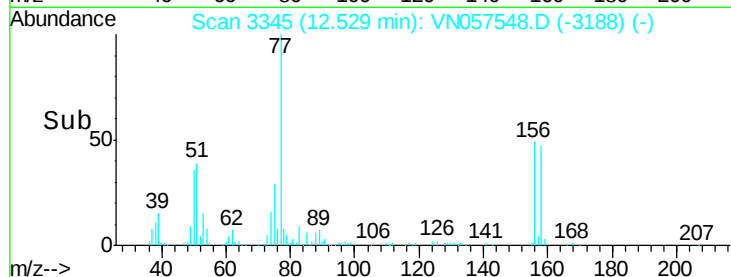
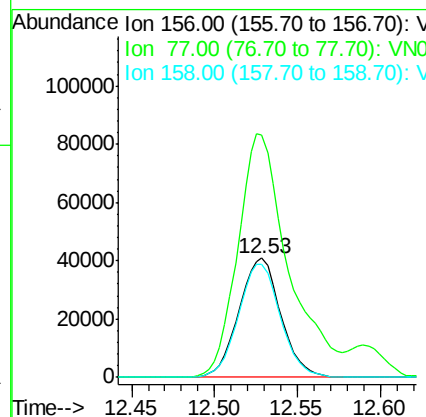
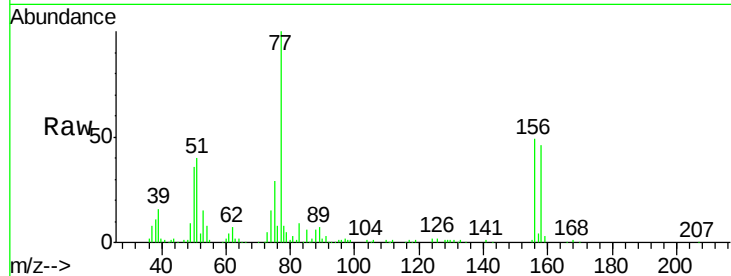
ClientSampleId :

VSTDCCC020EC

Tot Ion:	156	Resp:	71746
Ion Ratio	Lower	Upper	
156	100		
77	247.4	0.0	506.8
158	95.4	0.0	196.6

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#74

n-propylbenzene

Concen: 19.541 ug/l

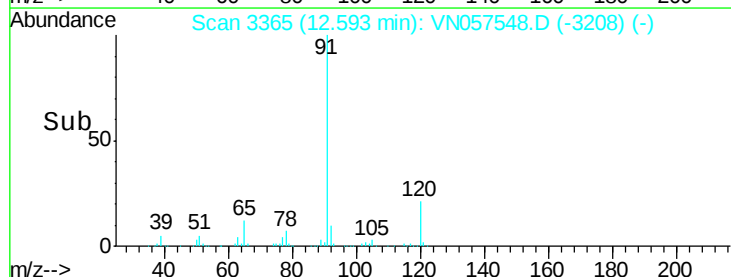
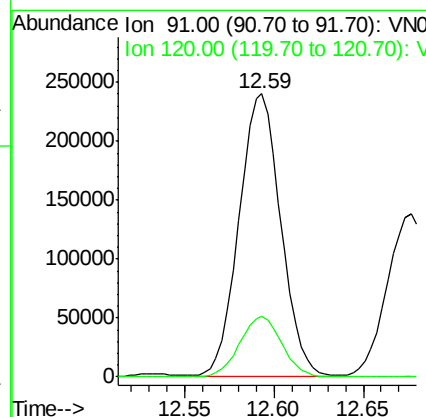
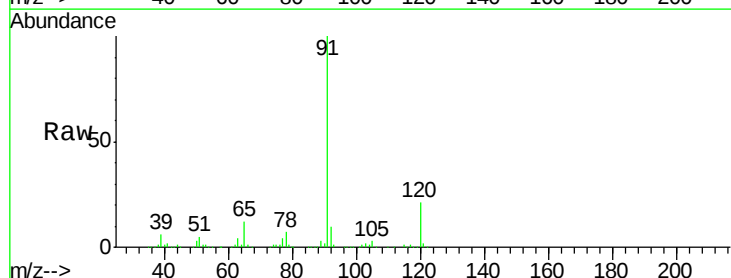
RT: 12.59 min Scan# 3365

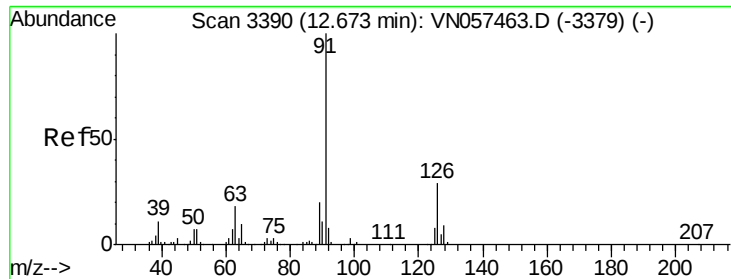
Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Tgt Ion:	91	Resp:	393681
Ion Ratio	Lower	Upper	
91	100		
120	21.5	0.0	42.2





#75

2-Chlorotoluene

Concen: 19.972 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 91 Resp: 236967

Ion Ratio Lower Upper

91 100

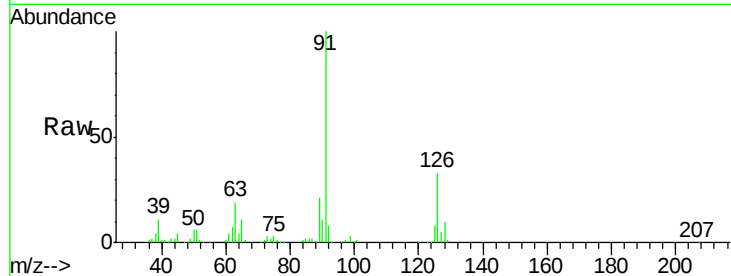
126 31.3 0.0 60.4

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Abundance Ion 91.00 (90.70 to 91.70): VN057548.D (-3390) (-)

Ion 126.00 (125.70 to 126.70): VN057548.D (-3390) (-)

150000

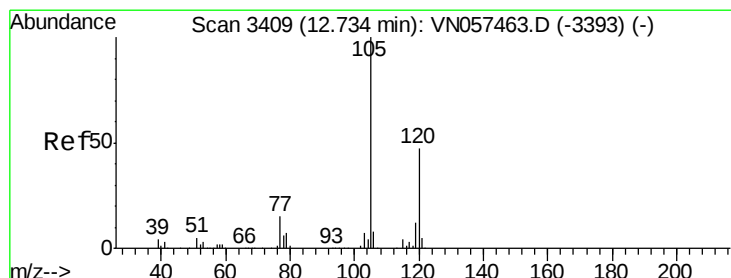
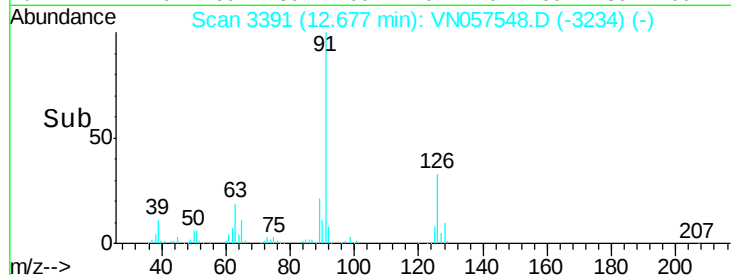
100000

50000

0

12.65 12.68 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 20.450 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057548.D

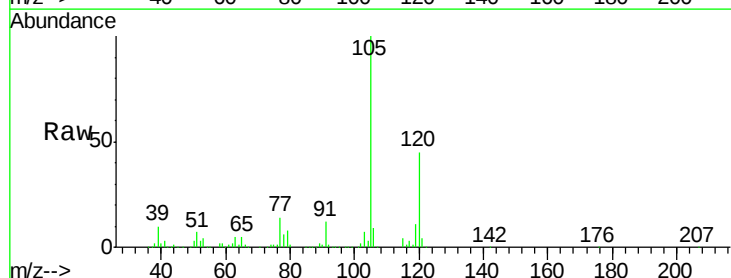
Acq: 27 Aug 2019 12:00

Tgt Ion: 105 Resp: 296515

Ion Ratio Lower Upper

105 100

120 45.3 0.0 94.4



Abundance Ion 105.00 (104.70 to 105.70): VN057548.D (-3409) (-)

Ion 120.00 (119.70 to 120.70): VN057548.D (-3409) (-)

200000

150000

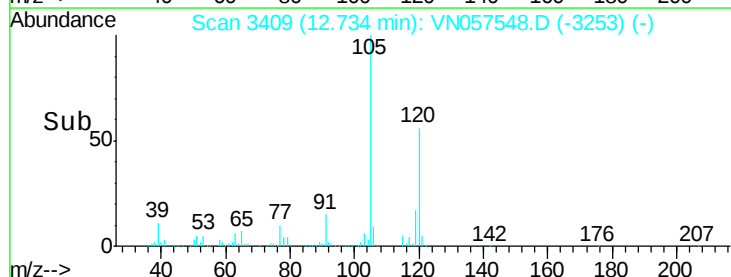
100000

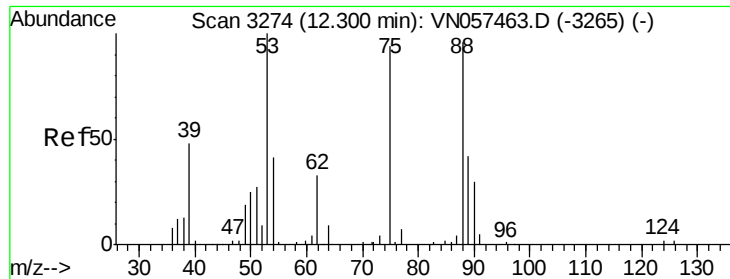
50000

0

12.65 12.70 12.73 12.75 12.80

Time-->





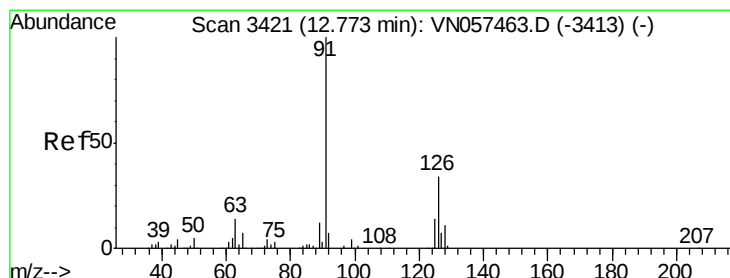
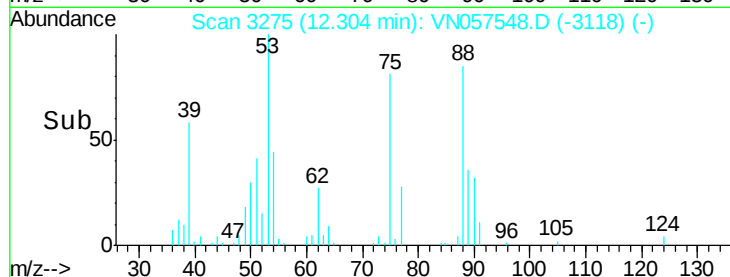
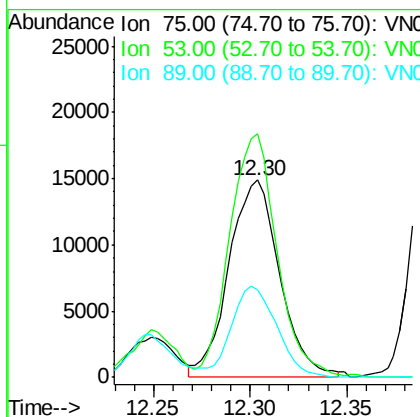
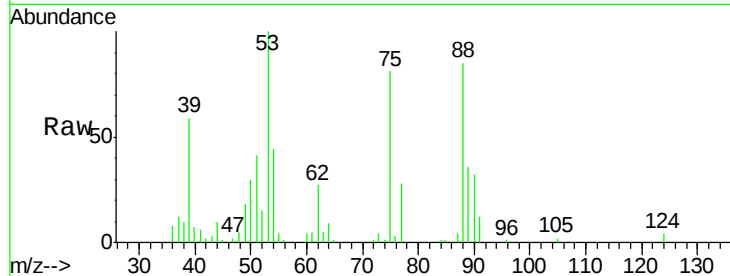
#77
t-1,4-Dichloro-2-butene
Concen: 16.357 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	125.9	55.6	166.9
89	45.5	23.8	71.4

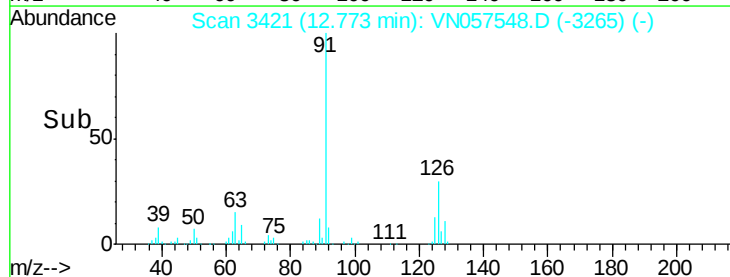
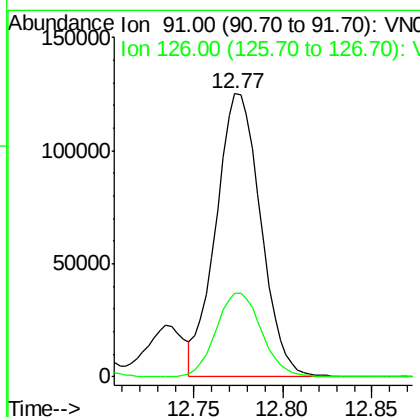
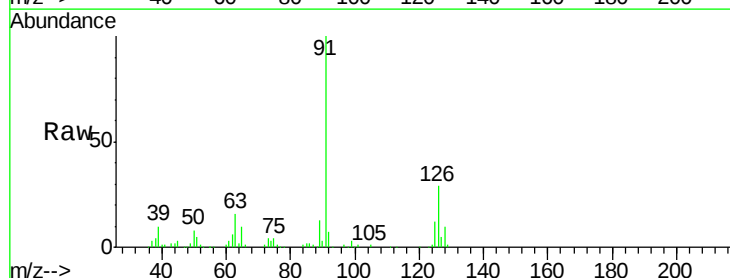
Manual Integrations
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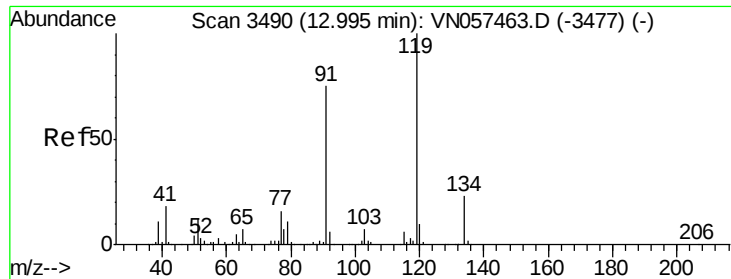
MMDadoda
8/28/2019 4:26:49 PM



#78
4-Chlorotoluene
Concen: 19.482 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.2	0.0	61.6





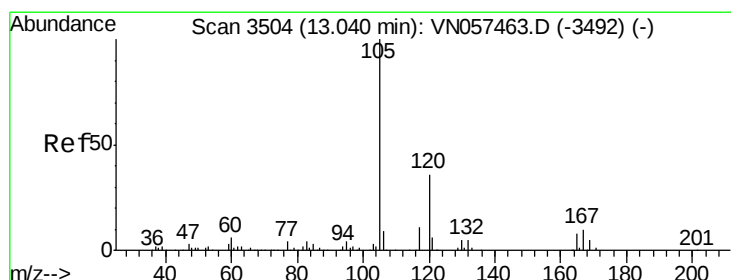
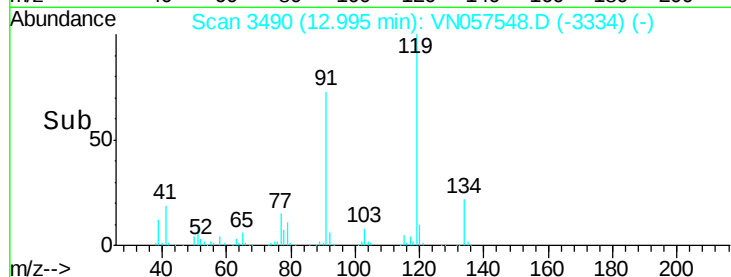
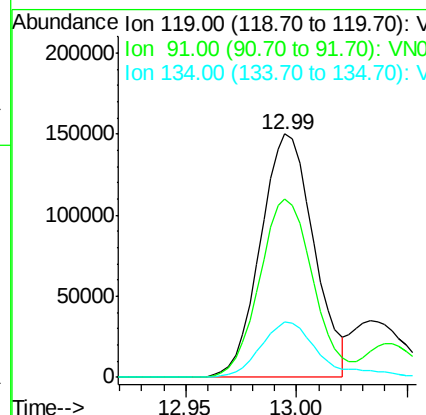
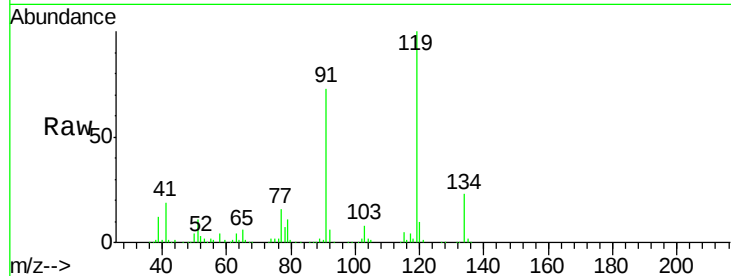
#79
tert-butylbenzene
Concen: 20.367 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	251290		
91	73.3	0.0	146.6	
134	23.4	0.0	46.2	

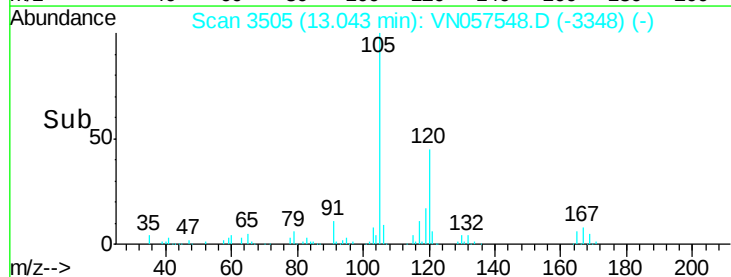
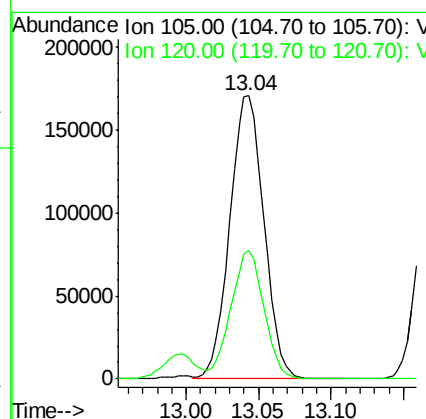
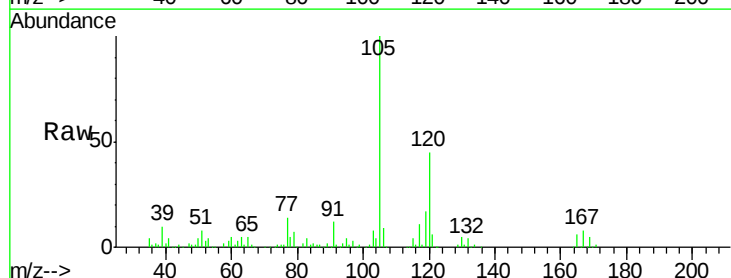
Manual Integrations
APPROVED

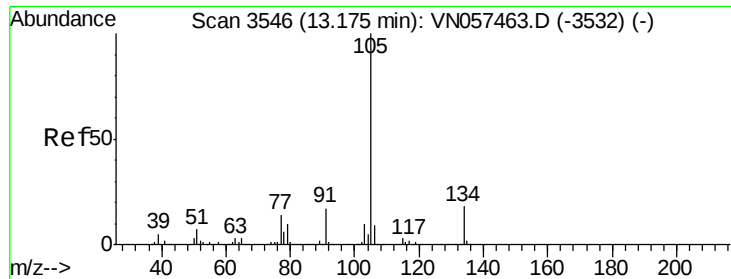
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 20.579 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	278178		
120	43.8	0.0	85.4	





#81

sec-Butylbenzene

Concen: 19.809 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:105 Resp: 322058

Ion Ratio Lower Upper

105 100

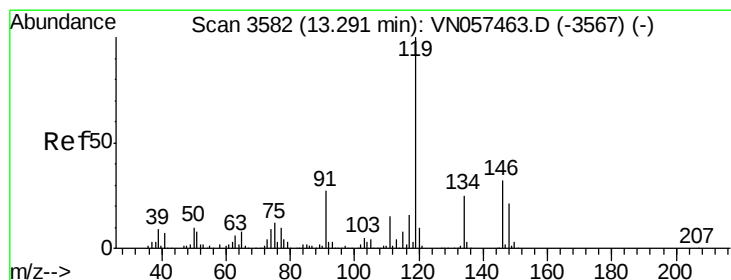
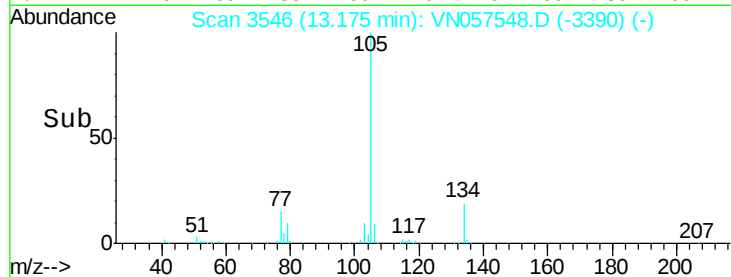
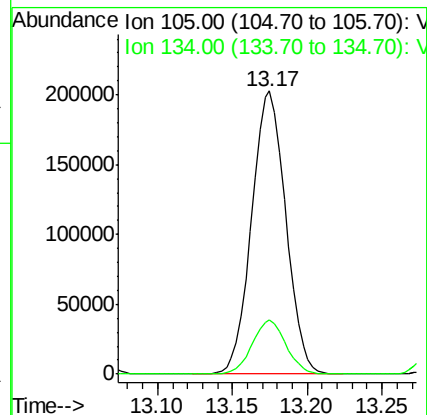
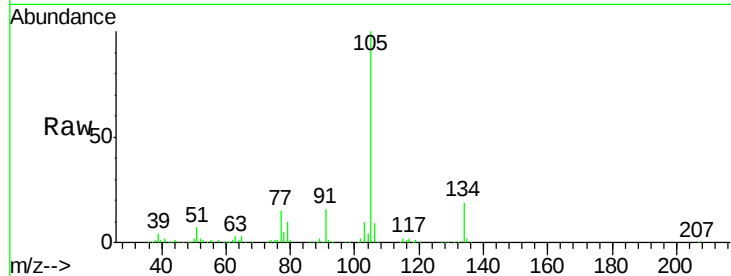
134 18.9 0.0 36.0

Manual Integrations

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#82

p-Isopropyltoluene

Concen: 19.143 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

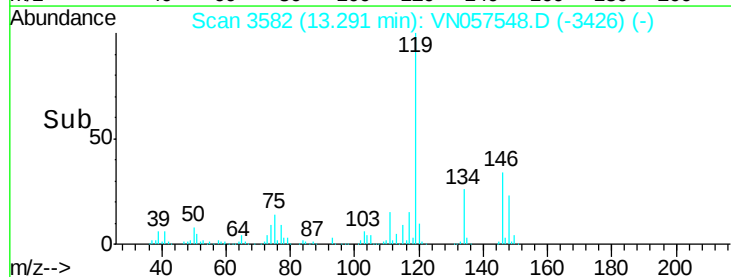
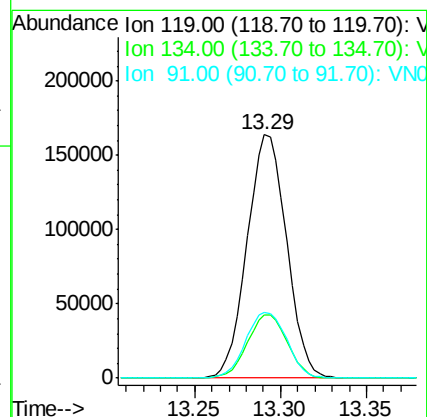
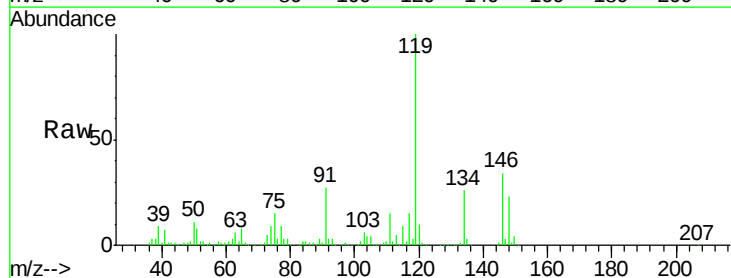
Tgt Ion:119 Resp: 261661

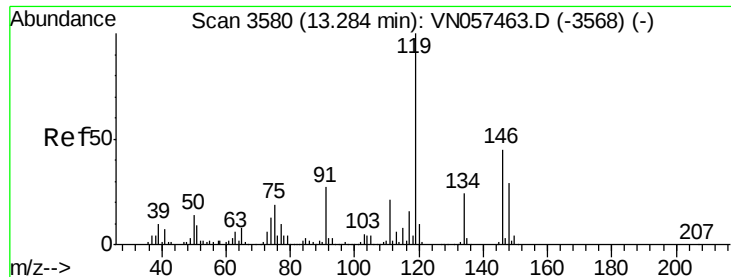
Ion Ratio Lower Upper

119 100

134 26.2 0.0 49.6

91 28.1 0.0 55.2





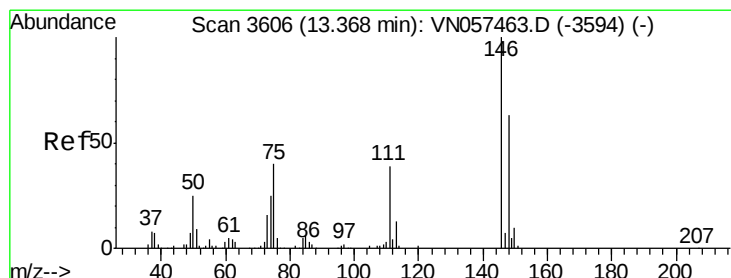
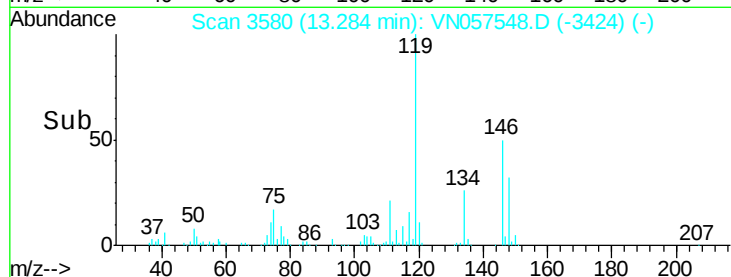
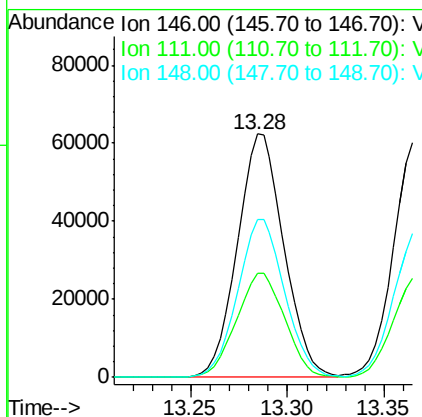
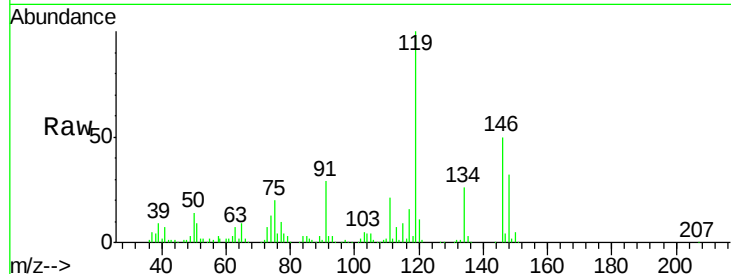
#83
 1,3-Dichlorobenzene
 Concen: 18.687 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.4	67.0
148	65.6	31.8	95.4

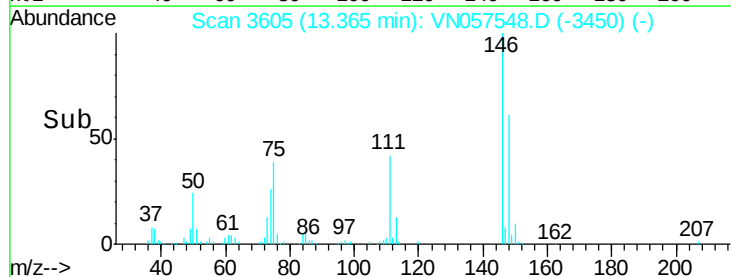
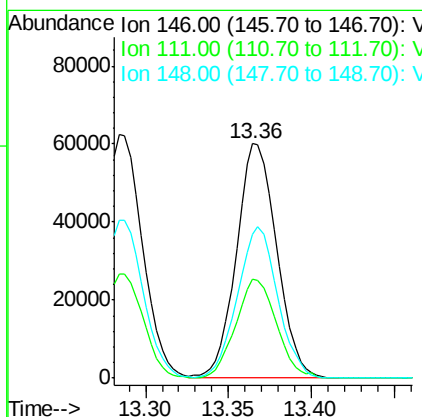
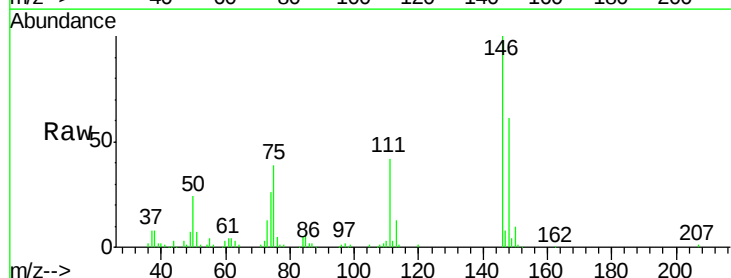
Manual Integrations
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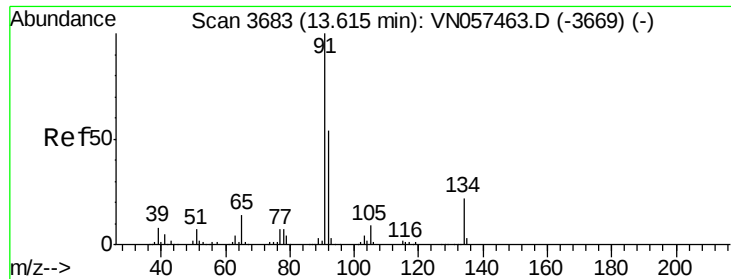
MMDadoda
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#84
 1,4-Dichlorobenzene
 Concen: 18.827 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.5	61.5
148	64.2	31.9	95.7





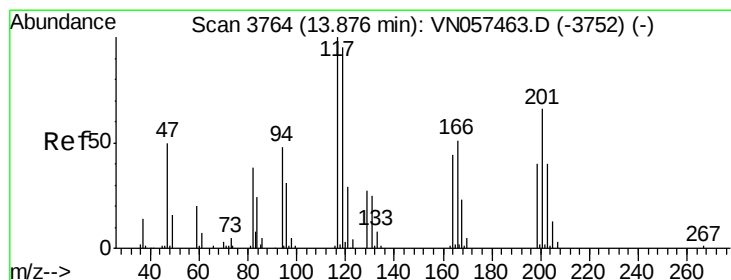
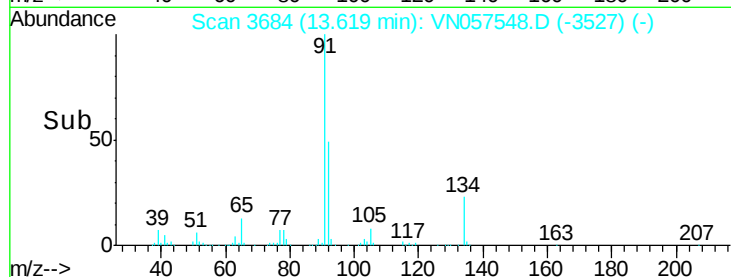
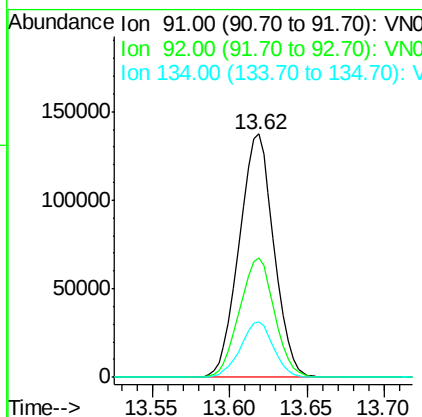
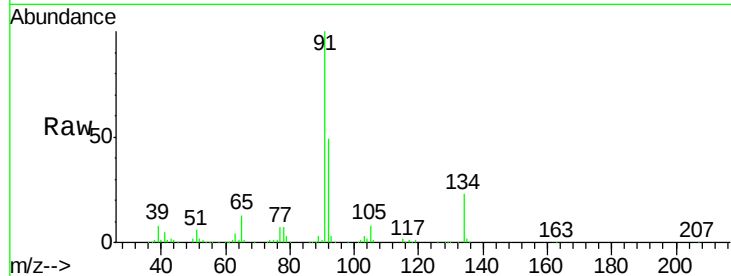
#85
n-Butylbenzene
Concen: 18.000 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
91	100	214495		
92	49.4	0.0	105.6	
134	21.8	0.0	46.0	

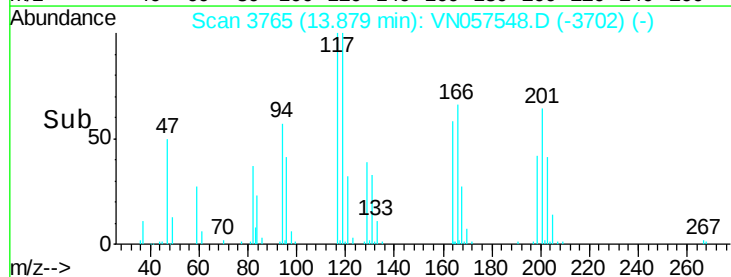
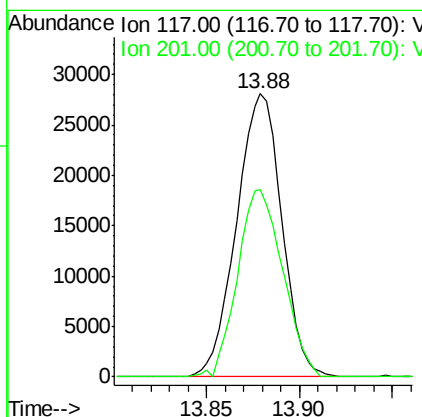
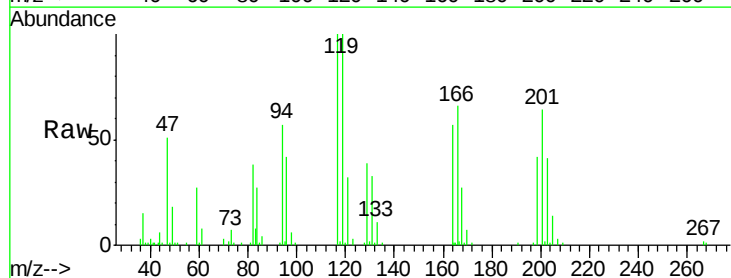
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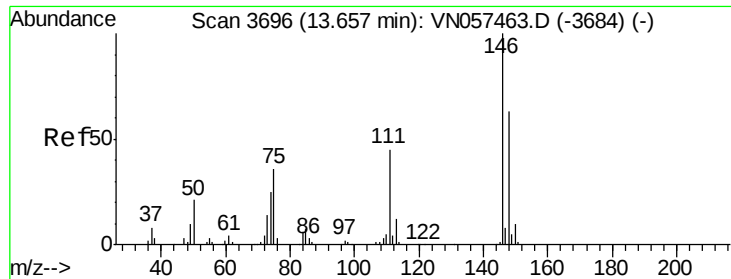
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#86
Hexachloroethane
Concen: 17.243 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN057548.D
Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	47556		
201	65.6	34.0	101.8	





#87

1,2-Dichlorobenzene

Concen: 19.823 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

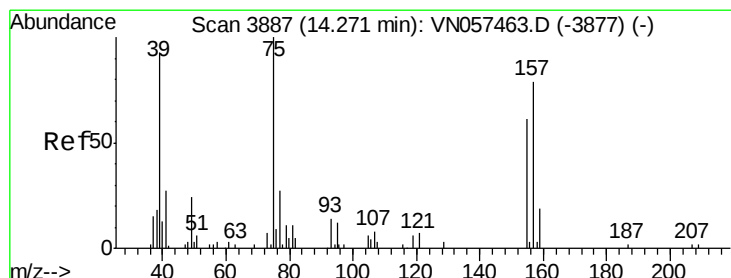
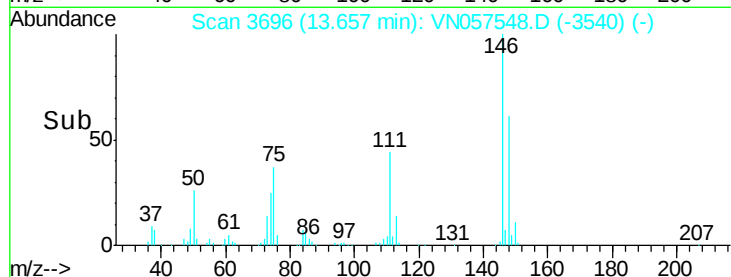
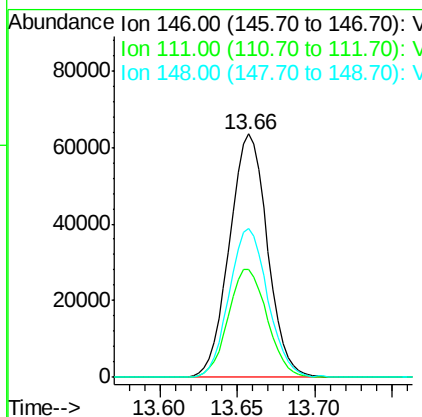
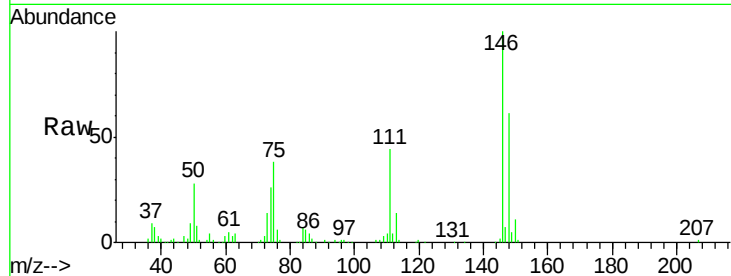
ClientSampleId :

VSTDCCC020EC

Tot Ion:	146	Resp:	108380
Ion Ratio	Lower	Upper	
146	100		
111	45.5	22.5	67.5
148	62.0	30.9	92.7

Manual Integrations
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#88

1,2-Dibromo-3-Chloropropane

Concen: 17.710 ug/l

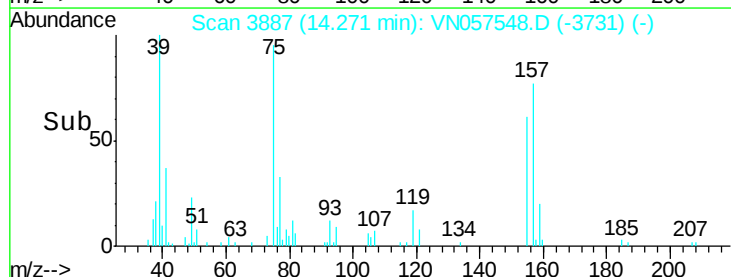
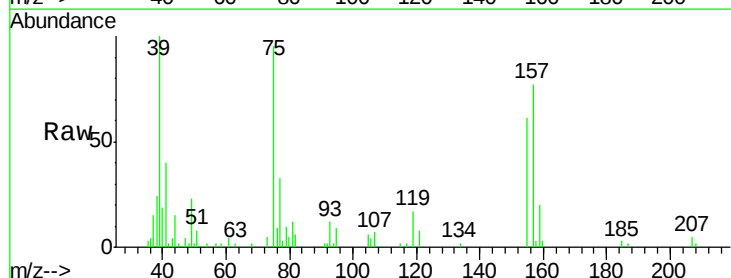
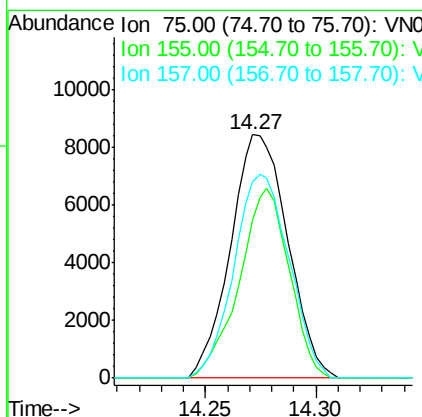
RT: 14.27 min Scan# 3887

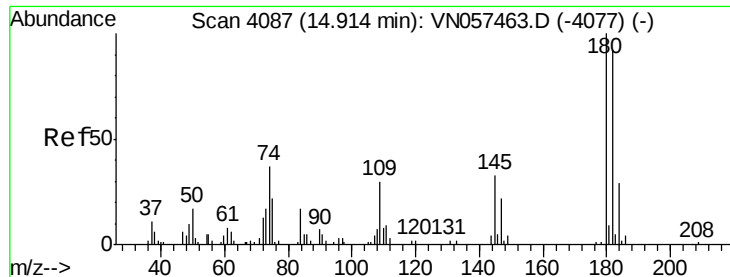
Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Tgt Ion:	75	Resp:	15185
Ion Ratio	Lower	Upper	
75	100		
155	68.0	53.7	80.5
157	80.8	63.5	95.3





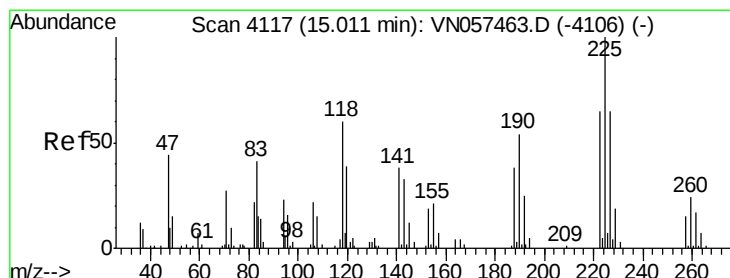
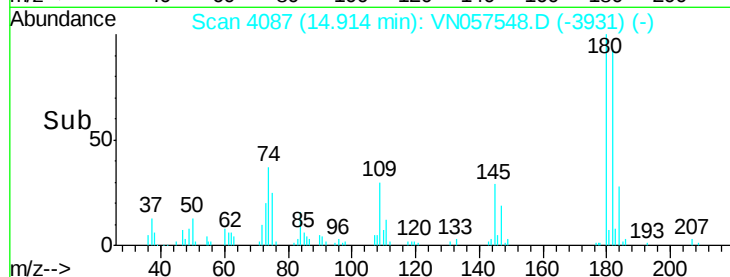
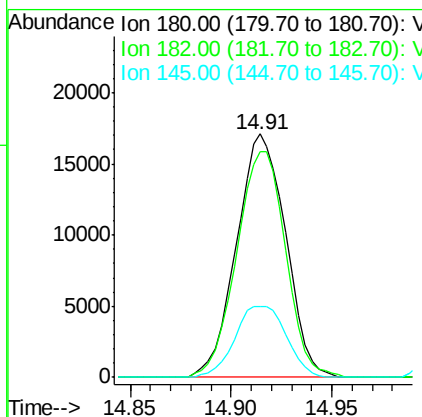
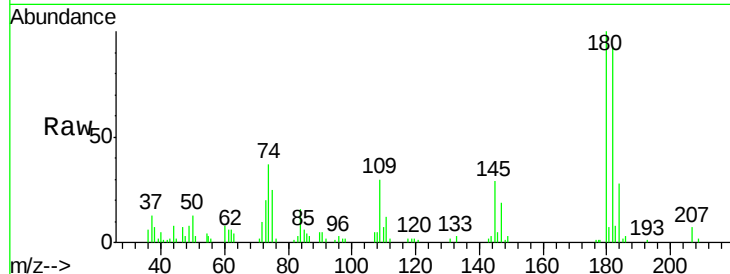
#89
 1,2,4-Trichlorobenzene
 Concen: 14.241 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.8	75.4	113.2
145	30.7	26.9	40.3

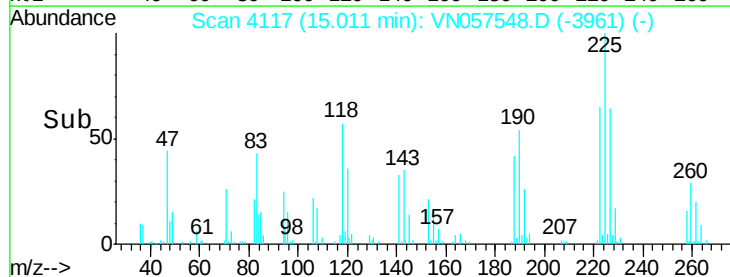
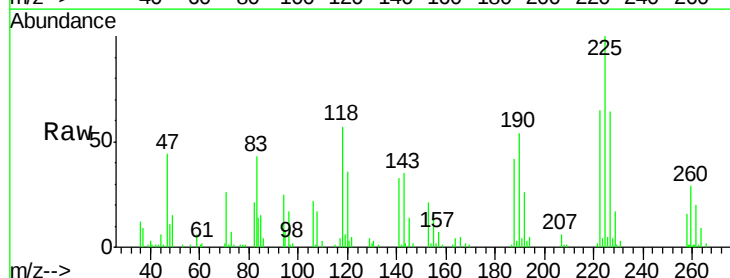
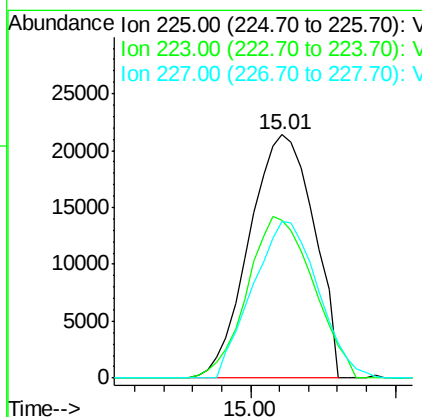
Manual Integrations
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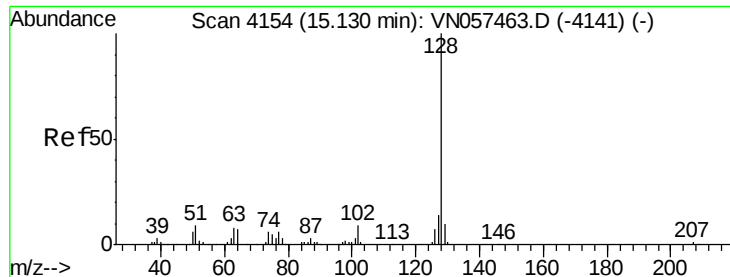
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#90
 Hexachlorobutadiene
 Concen: 20.951 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057548.D
 Acq: 27 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	68.1	0.0	123.6
227	65.4	0.0	126.6





#91

Naphthalene

Concen: 19.359 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Instrument :

MSVOA_N

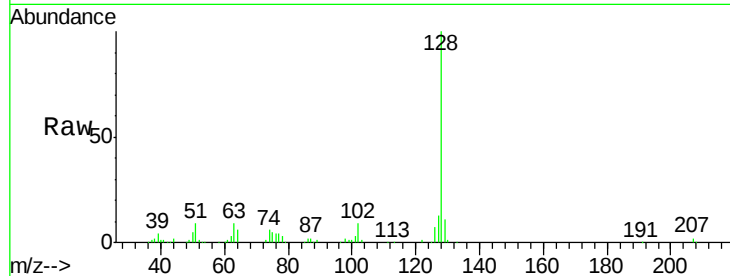
ClientSampleId :

VSTDCCC020EC

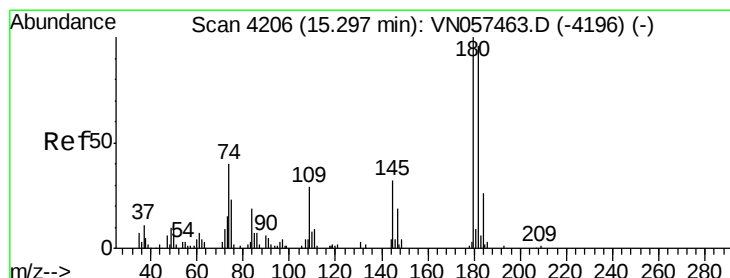
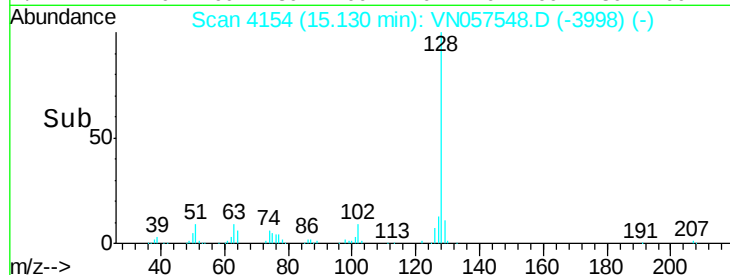
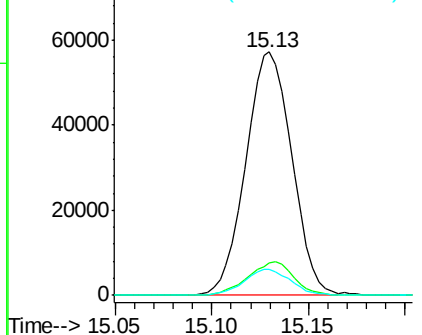
Tot Ion:128	Resp:	94984
Ion Ratio	Lower	Upper
128	100	
127	13.7	10.1 15.1
129	10.9	8.6 13.0

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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 14.470 ug/l

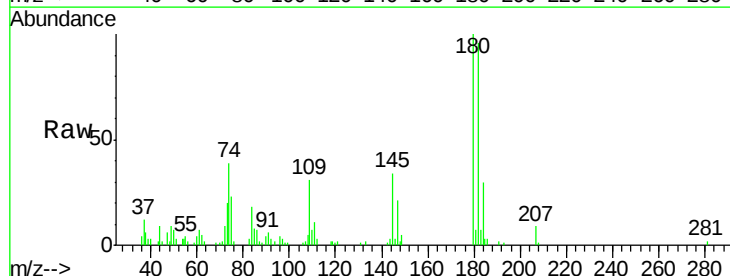
RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057548.D

Acq: 27 Aug 2019 12:00

Tgt Ion:180	Resp:	29644
Ion Ratio	Lower	Upper
180	100	
182	100.9	0.0 187.0
145	35.4	0.0 64.4



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

