

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054556.D
 Acq On : 22 Mar 2019 14:25
 Operator : JC/SP
 Sample : VN0322WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 3:11:12 PM

Quant Time: Mar 23 03:39:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	463874	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	765464	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	648160	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	270192	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	315603	54.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.40%	
35) Dibromofluoromethane	7.59	113	250885	50.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.74%	
50) Toluene-d8	10.09	98	921752	49.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.44%	
62) 4-Bromofluorobenzene	12.40	95	306370	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	99976	22.545	ug/l	99
3) Chloromethane	2.06	50	136489	22.622	ug/l	98
4) Vinyl Chloride	2.19	62	130109	21.478	ug/l	100
5) Bromomethane	2.58	94	74824	19.102	ug/l	97
6) Chloroethane	2.71	64	72868	20.055	ug/l	100
7) Trichlorofluoromethane	3.02	101	155210	21.098	ug/l	100
8) Diethyl Ether	3.41	74	54465	19.251	ug/l	73
9) 1,1,2-Trichlorotrifluoroet	3.75	101	82679	19.123	ug/l	94
10) Methyl Iodide	3.94	142	116177	18.267	ug/l	92
11) Tert butyl alcohol	4.82	59	39105	111.946	ug/l #	92
12) 1,1-Dichloroethene	3.73	96	82013	18.330	ug/l #	73
13) Acrolein	3.61	56	46966	97.427	ug/l	96
14) Allyl chloride	4.32	41	185193	21.981	ug/l #	93
15) Acrylonitrile	5.00	53	208249	119.712	ug/l	99
16) Acetone	3.82	43	155184	89.458	ug/l #	84
17) Carbon Disulfide	4.04	76	221288	18.459	ug/l	98
18) Methyl Acetate	4.33	43	93408	24.158	ug/l #	88
19) Methyl tert-butyl Ether	5.05	73	296938	22.740	ug/l	95
20) Methylene Chloride	4.55	84	111272	21.760	ug/l #	80
21) trans-1,2-Dichloroethene	5.03	96	100524	22.003	ug/l	87
22) Diisopropyl ether	5.96	45	395384	23.792	ug/l #	94
23) Vinyl Acetate	5.90	43	1371737	116.870	ug/l #	94
24) 1,1-Dichloroethane	5.85	63	206140	23.037	ug/l	97
25) 2-Butanone	6.85	43	258085	116.142	ug/l	89
26) 2,2-Dichloropropane	6.82	77	130952	20.530	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	117806	21.618	ug/l	87
28) Bromochloromethane	7.19	49	97103	22.047	ug/l #	71
29) Tetrahydrofuran	7.22	42	177515	123.100	ug/l #	84
30) Chloroform	7.37	83	199412	22.836	ug/l	98
31) Cyclohexane	7.65	56	198291	22.090	ug/l	91
32) 1,1,1-Trichloroethane	7.57	97	160533	22.283	ug/l	95
36) 1,1-Dichloropropene	7.79	75	148172	20.703	ug/l	96
37) Ethyl Acetate	6.94	43	116223	22.832	ug/l	96
38) Carbon Tetrachloride	7.77	117	138178	19.867	ug/l	100

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	163506	19.971	ug/l	90
40) Benzene	8.04	78	444119	21.700	ug/l	98
41) Methacrylonitrile	7.18	41	68968	22.216	ug/l #	88
42) 1,2-Dichloroethane	8.13	62	159393	21.385	ug/l	98
43) Isopropyl Acetate	8.17	43	191669	22.295	ug/l #	94
44) Trichloroethene	8.84	130	114813	20.178	ug/l	91
45) 1,2-Dichloropropane	9.12	63	123730	22.514	ug/l	97
46) Dibromomethane	9.21	93	71332	21.757	ug/l	90
47) Bromodichloromethane	9.40	83	140547	20.656	ug/l	99
48) Methyl methacrylate	9.20	41	98252	21.057	ug/l	89
49) 1,4-Dioxane	9.20	88	22243	426.401	ug/l #	85
51) 4-Methyl-2-Pentanone	9.99	43	551853	115.826	ug/l	93
52) Toluene	10.16	92	262114	20.823	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	128051	19.276	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	162525	20.832	ug/l #	88
55) 1,1,2-Trichloroethane	10.56	97	99435	21.976	ug/l	99
56) Ethyl methacrylate	10.43	69	129431	21.312	ug/l #	82
57) 1,3-Dichloropropane	10.71	76	172499	21.931	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	249992	99.964	ug/l	90
59) 2-Hexanone	10.75	43	339729	109.164	ug/l	92
60) Dibromochloromethane	10.90	129	96626	20.068	ug/l	98
61) 1,2-Dibromoethane	11.00	107	94692	21.168	ug/l	100
64) Tetrachloroethene	10.63	164	109804	20.424	ug/l	96
65) Chlorobenzene	11.43	112	274416	20.816	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	99866	21.106	ug/l	97
67) Ethyl Benzene	11.51	91	493128	21.176	ug/l	98
68) m/p-Xylenes	11.62	106	365697	41.461	ug/l	96
69) o-Xylene	11.95	106	181135	21.028	ug/l	99
70) Styrene	11.96	104	292244	20.892	ug/l	97
71) Bromoform	12.13	173	55548	18.492	ug/l #	99
73) Isopropylbenzene	12.25	105	473301	21.738	ug/l	98
74) N-amyl acetate	12.07	43	148459	23.714	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.50	83	114706	23.079	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	97694m	22.786	ug/l	
77) Bromobenzene	12.53	156	114560	21.215	ug/l	86
78) n-propylbenzene	12.59	91	509392	21.576	ug/l	97
79) 2-Chlorotoluene	12.67	91	316188	21.476	ug/l	96
80) 1,3,5-Trimethylbenzene	12.73	105	378832	21.230	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	21926	19.683	ug/l #	73
82) 4-Chlorotoluene	12.77	91	305882	21.434	ug/l	95
83) tert-Butylbenzene	12.99	119	328080	21.122	ug/l	94
84) 1,2,4-Trimethylbenzene	13.04	105	372933	21.299	ug/l	99
85) sec-Butylbenzene	13.17	105	410798	21.216	ug/l	99
86) p-Isopropyltoluene	13.29	119	367410	21.209	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	187949	21.003	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	179799	20.651	ug/l	98
89) n-Butylbenzene	13.61	91	285092	21.047	ug/l	96
90) Hexachloroethane	13.88	117	53497	19.895	ug/l	95
91) 1,2-Dichlorobenzene	13.65	146	187835	21.671	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	16507	22.643	ug/l	87

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ALS Vial : 11 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VN0322WBS01

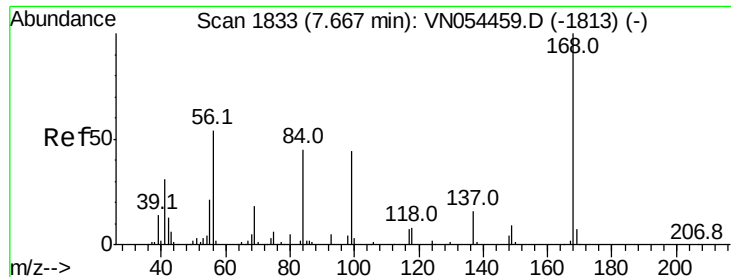
Manual Integrations
APPROVED

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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	87805	20.322	ug/l	98
94) Hexachlorobutadiene	15.01	225	55455	21.427	ug/l	99
95) Naphthalene	15.13	128	202198	20.980	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	87276	20.295	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion:168 Resp: 463874

Ion Ratio Lower Upper

168 100

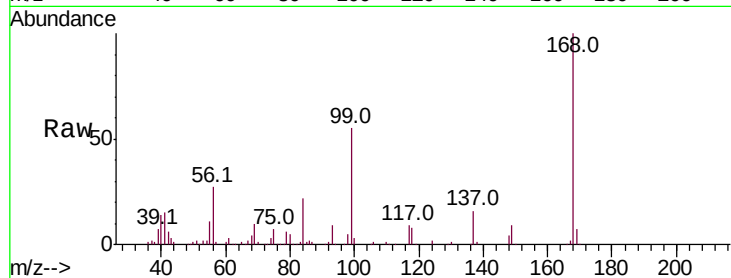
99 53.5 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

200000

150000

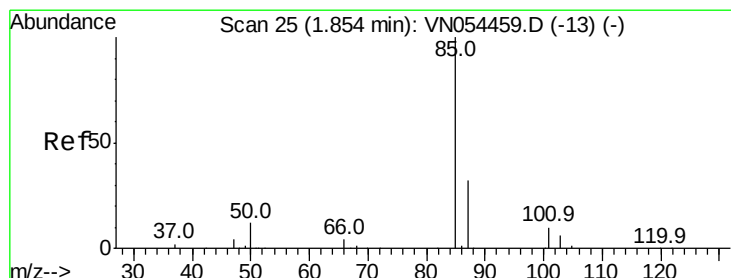
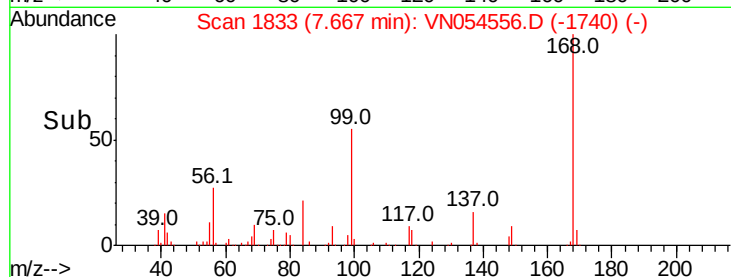
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 22.545 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054556.D

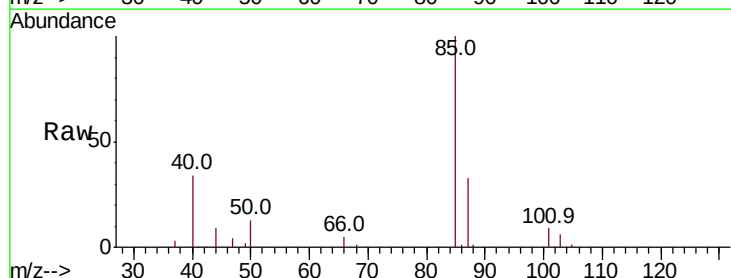
Acq: 22 Mar 2019 14:25

Tgt Ion: 85 Resp: 99976

Ion Ratio Lower Upper

85 100

87 32.5 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

80000

60000

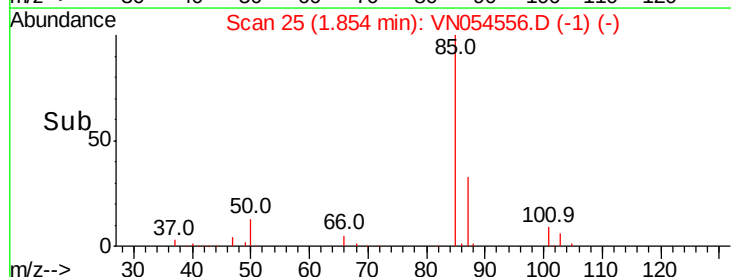
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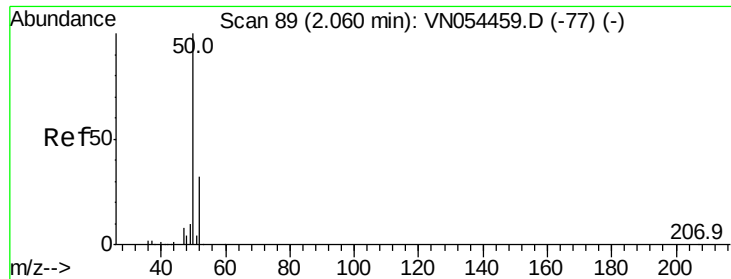
20000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 22.622 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 50 Resp: 136489

Ion Ratio Lower Upper

50 100

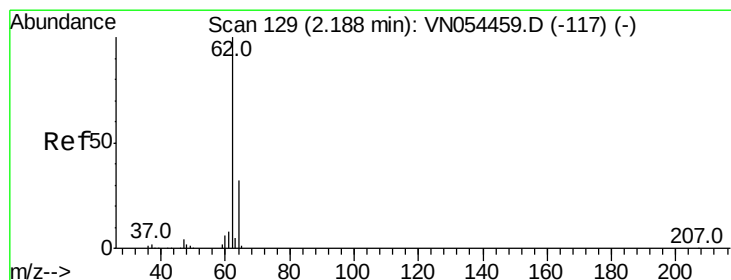
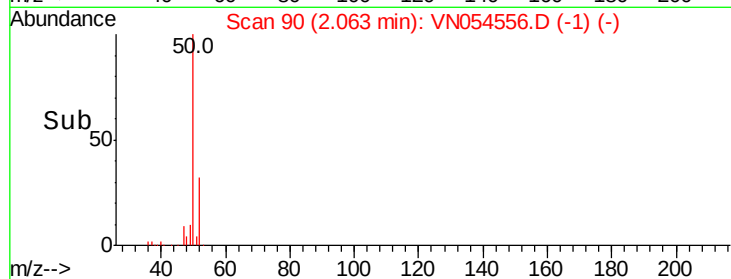
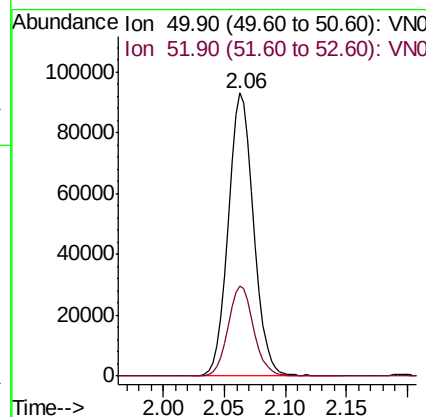
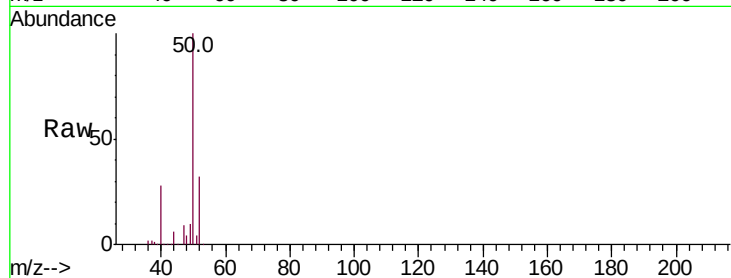
52 32.0 26.4 39.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.478 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054556.D

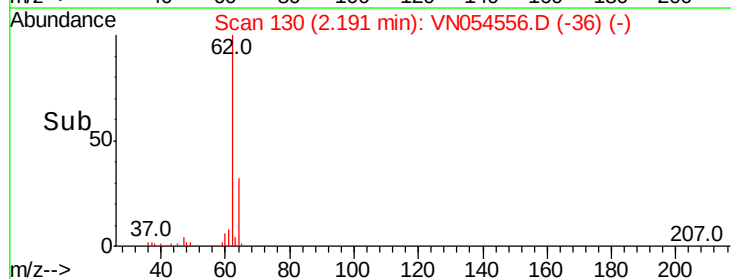
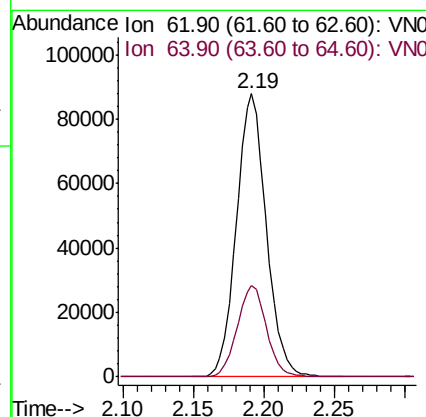
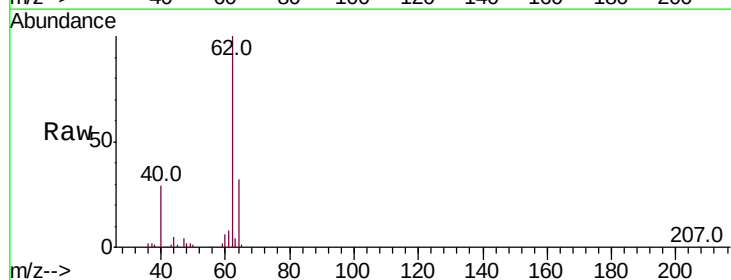
Acq: 22 Mar 2019 14:25

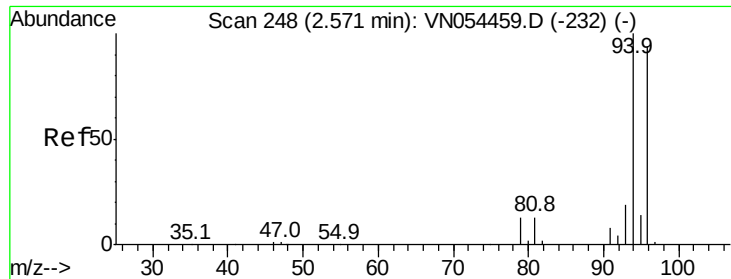
Tgt Ion: 62 Resp: 130109

Ion Ratio Lower Upper

62 100

64 32.1 25.5 38.3





#5

Bromomethane

Concen: 19.102 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 94 Resp: 74824

Ion Ratio Lower Upper

94 100

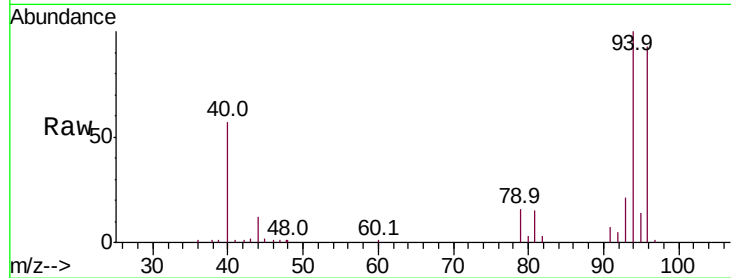
96 93.2 77.0 115.4

Manual Integrations

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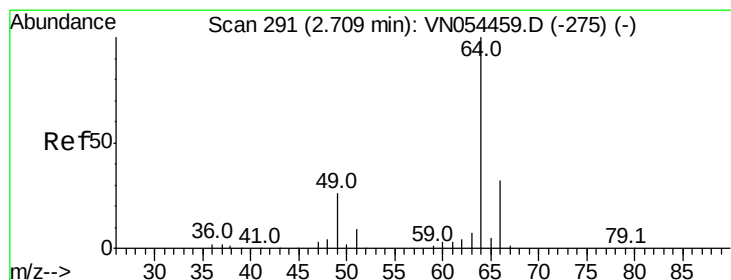
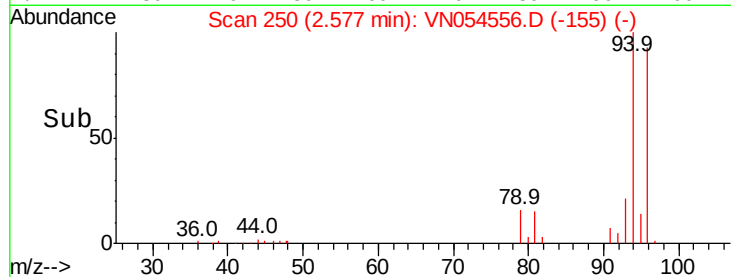
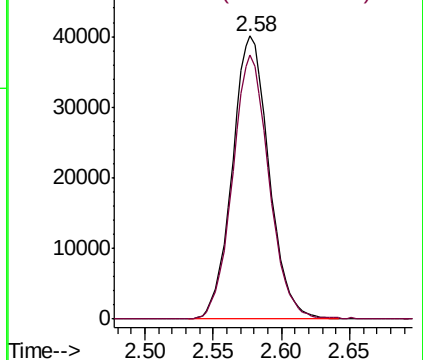
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.055 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN054556.D

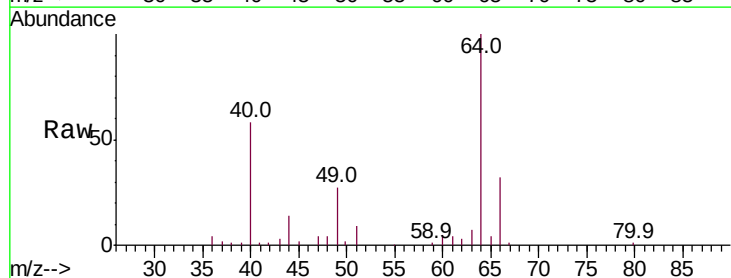
Acq: 22 Mar 2019 14:25

Tgt Ion: 64 Resp: 72868

Ion Ratio Lower Upper

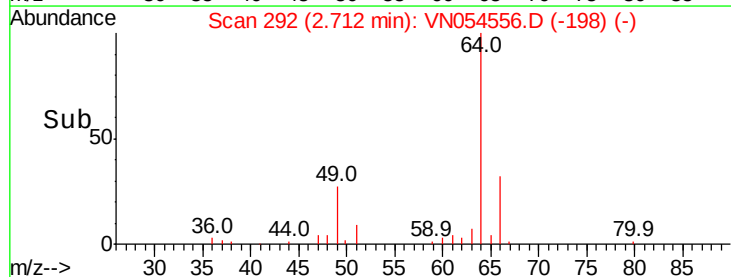
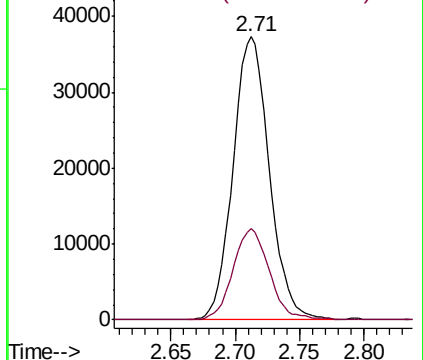
64 100

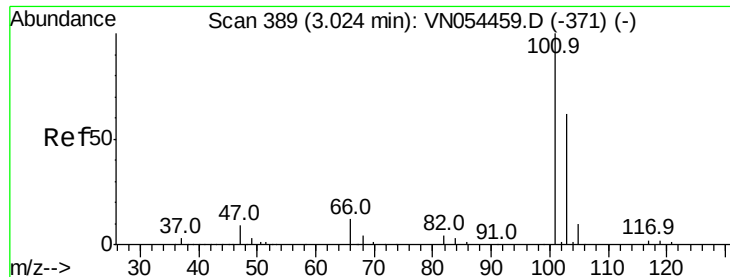
66 32.1 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

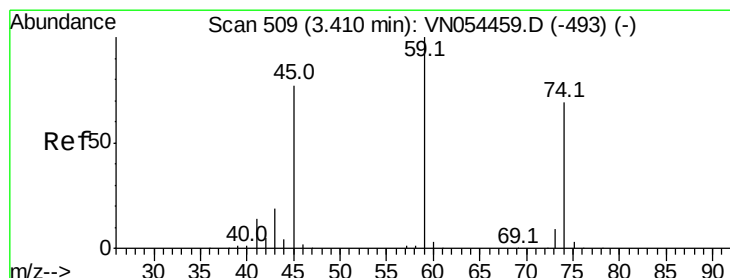
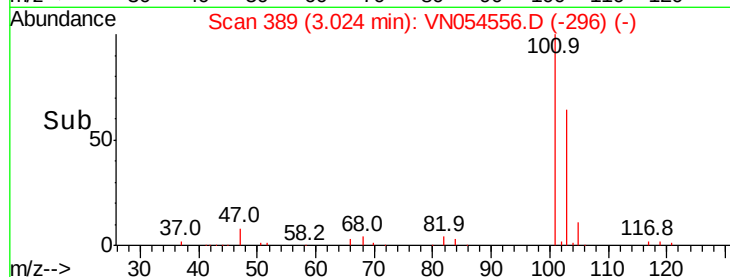
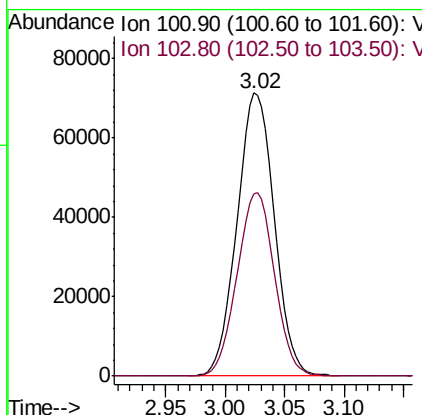
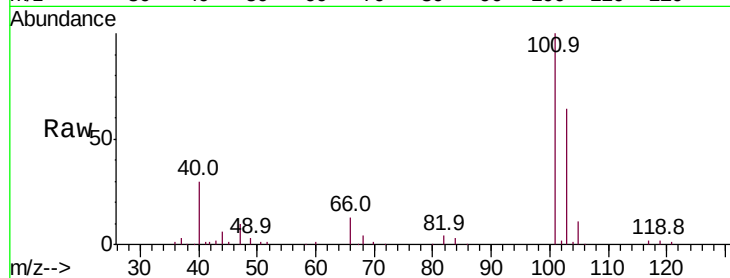
Trichlorofluoromethane
 Concen: 21.098 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054556.D
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 VN0322WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.4	77.2

Manual Integrations
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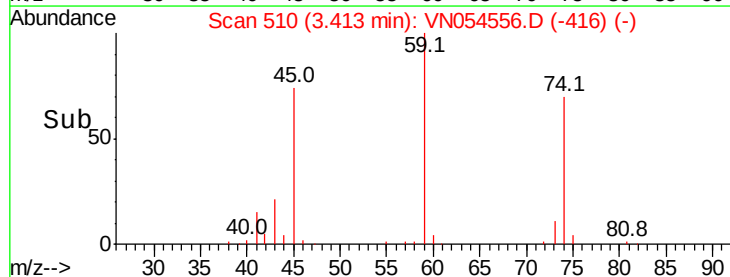
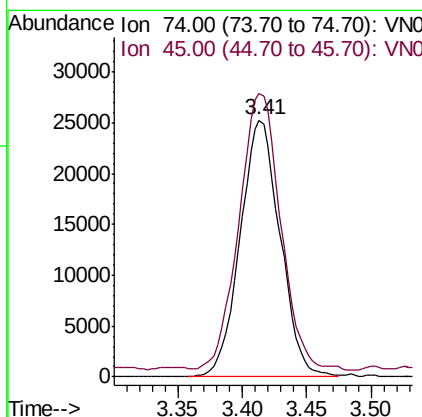
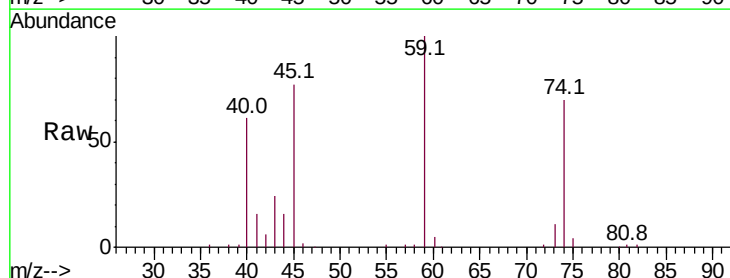
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 3/25/2019 3:11:12 PM

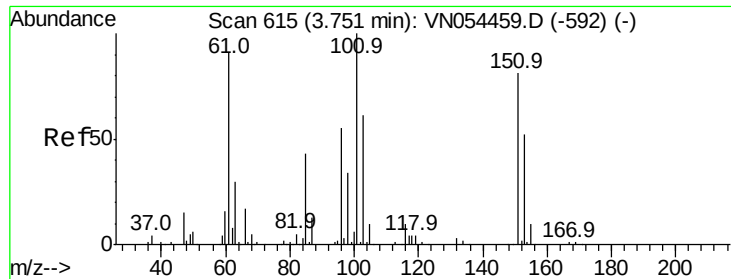


#8

Diethyl Ether
 Concen: 19.251 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
74	100		
45	111.2	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.123 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

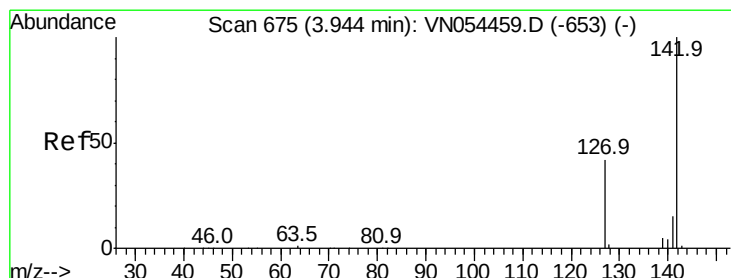
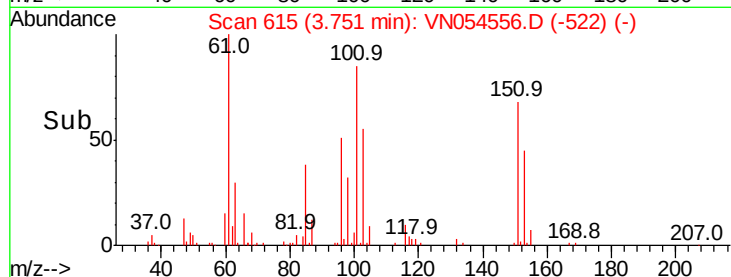
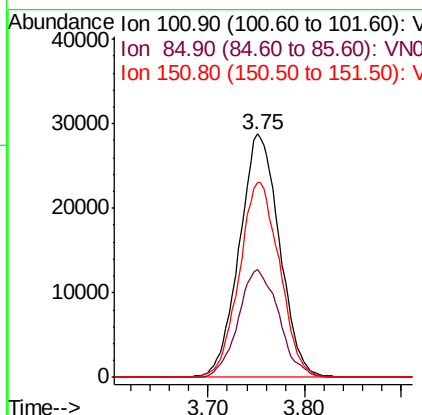
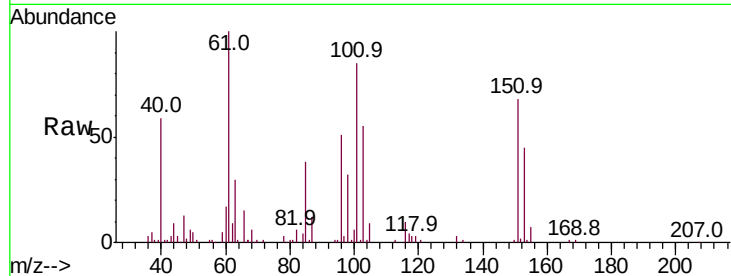
ClientSampleId :

VN0322WBS01

Tot Ion:	101	Resp:	82679
Ion Ratio	Lower	Upper	
101	100		
85	44.9	32.4	48.6
151	80.4	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 18.267 ug/l

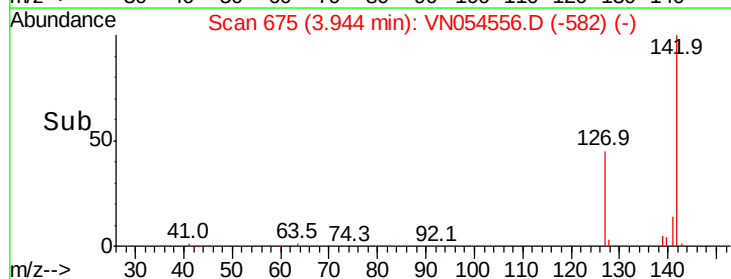
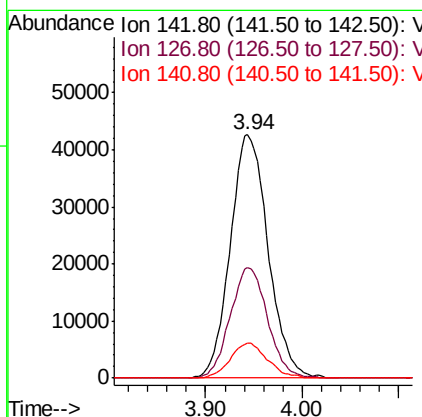
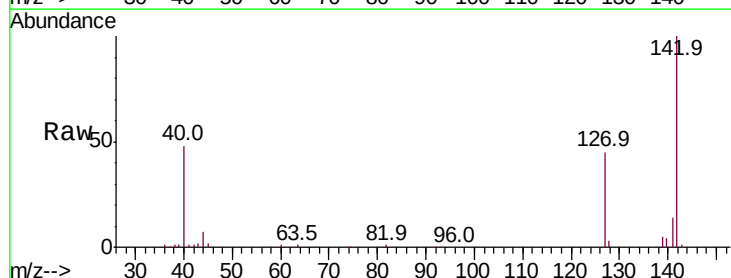
RT: 3.94 min Scan# 675

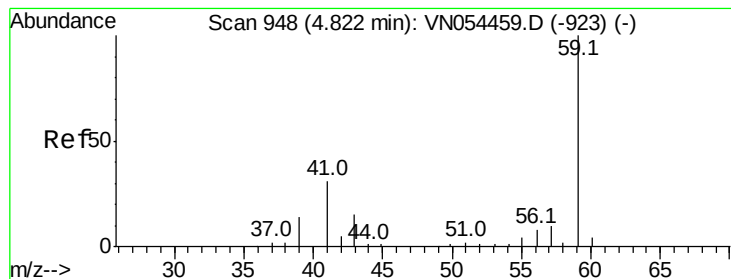
Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion:	142	Resp:	116177
Ion Ratio	Lower	Upper	
142	100		
127	44.7	30.3	45.5
141	14.1	11.2	16.8





#11

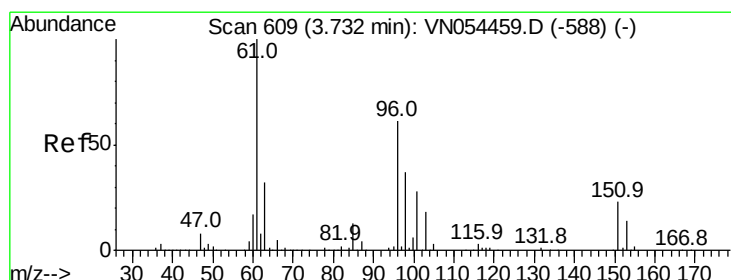
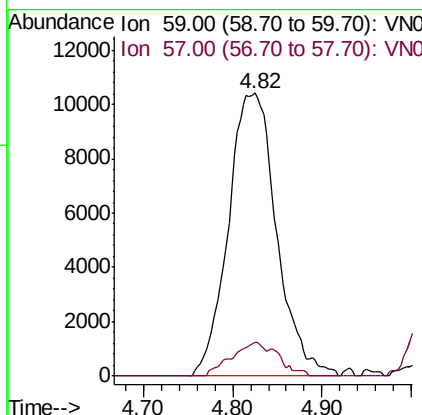
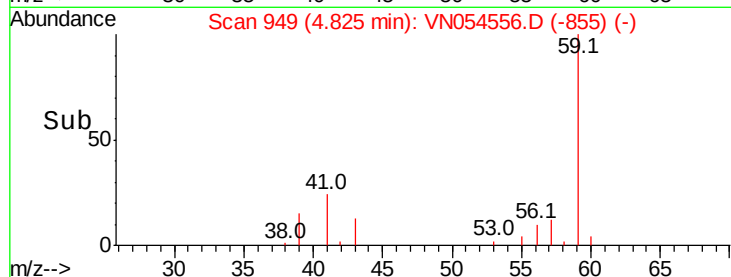
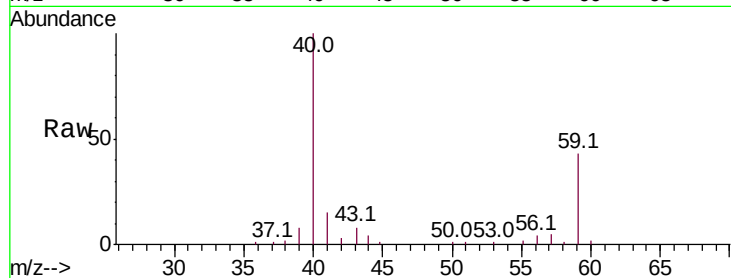
Tert butyl alcohol
 Concen: 111.946 ug/l
 RT: 4.82 min Scan# 949
 Delta R.T. 0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.2	9.0	13.6#

Manual Integrations
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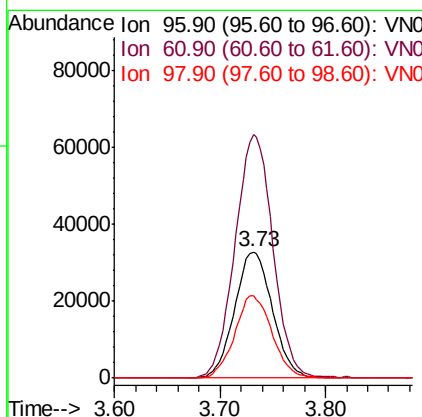
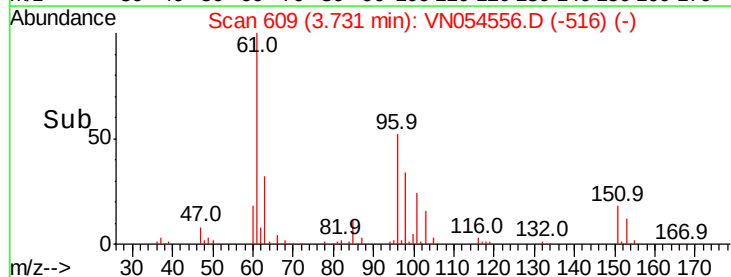
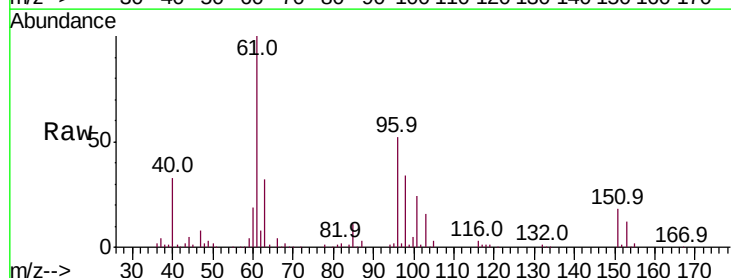
MMDadoda
 3/25/2019 3:11:12 PM

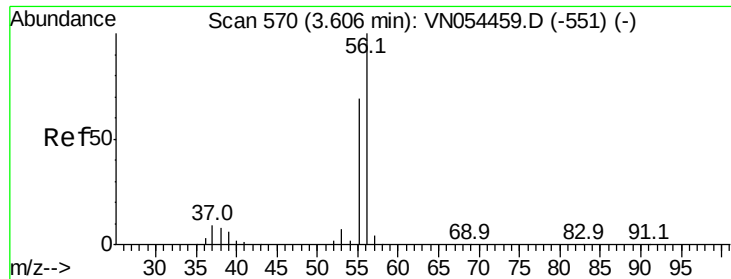


#12

1,1-Dichloroethene
 Concen: 18.330 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
96	100		
61	192.5	116.5	174.7#
98	64.9	51.0	76.4





#13

Acrolein

Concen: 97.427 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 56 Resp: 46966

Ion Ratio Lower Upper

56 100

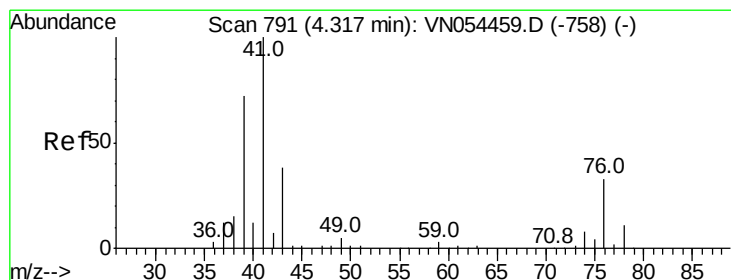
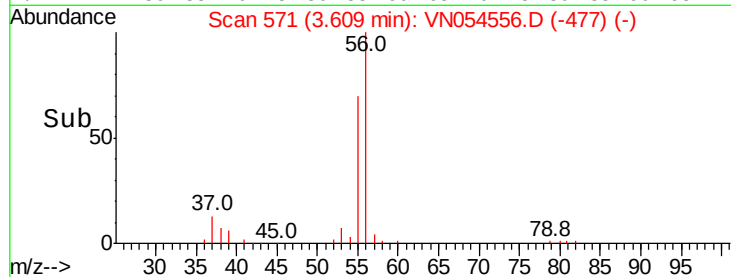
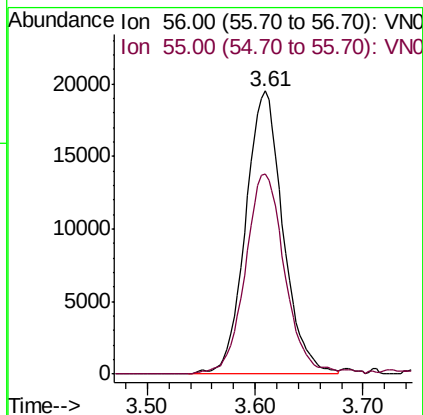
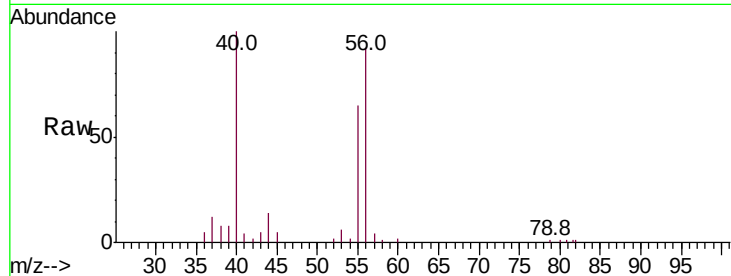
55 74.2 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

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#14

Allyl chloride

Concen: 21.981 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

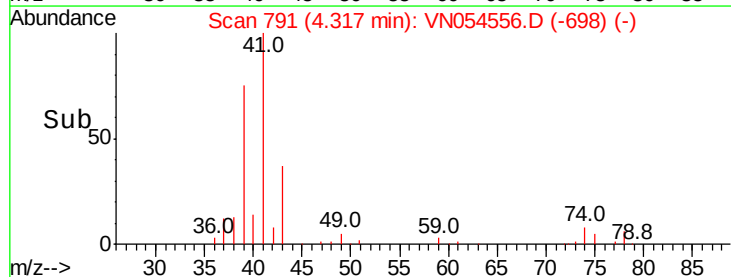
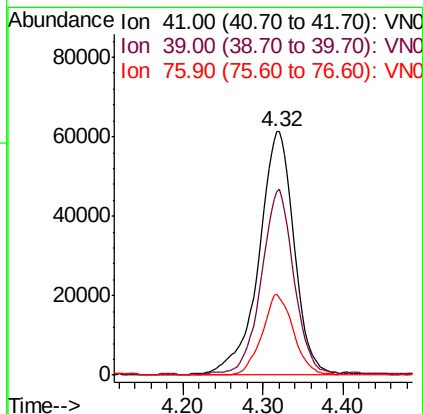
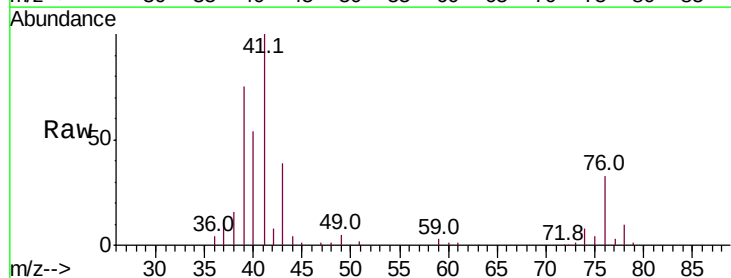
Tgt Ion: 41 Resp: 185193

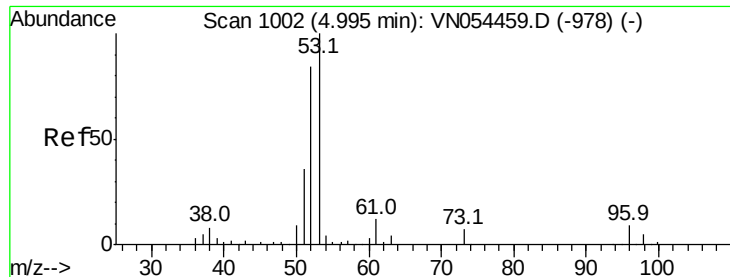
Ion Ratio Lower Upper

41 100

39 70.6 58.2 87.4

76 29.9 31.7 47.5#





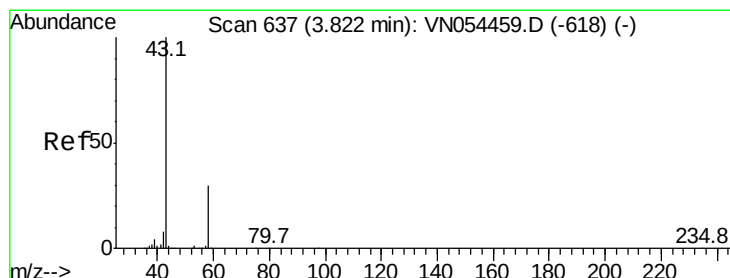
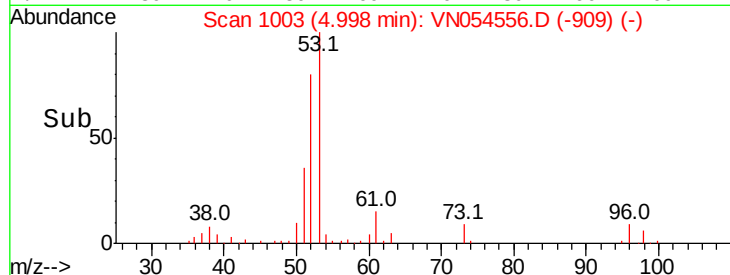
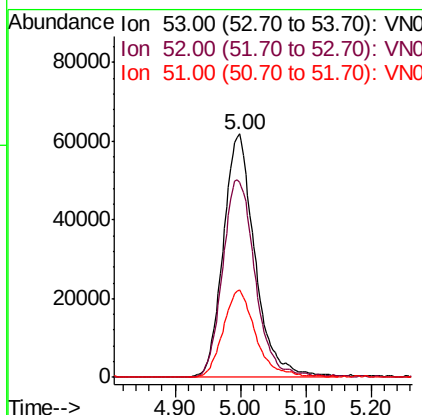
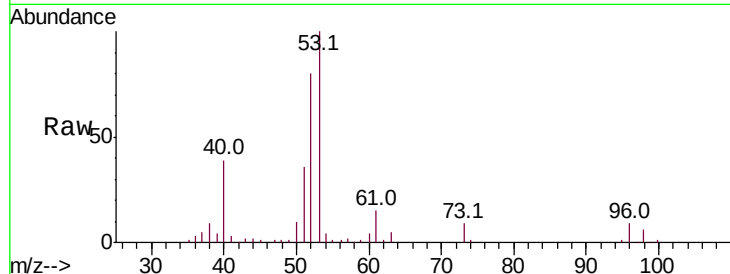
#15
 Acrylonitrile
 Concen: 119.712 ug/l
 RT: 5.00 min Scan# 1003
 Delta R.T. 0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322WBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.8	66.4	99.6
51	36.6	29.6	44.4

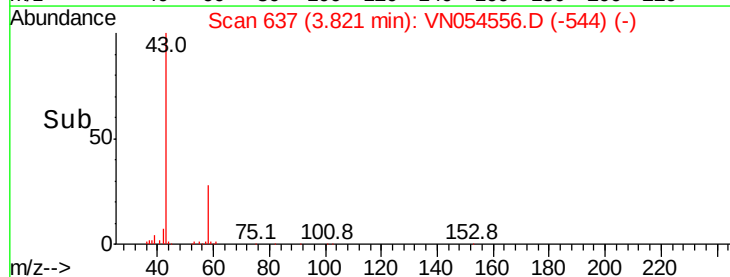
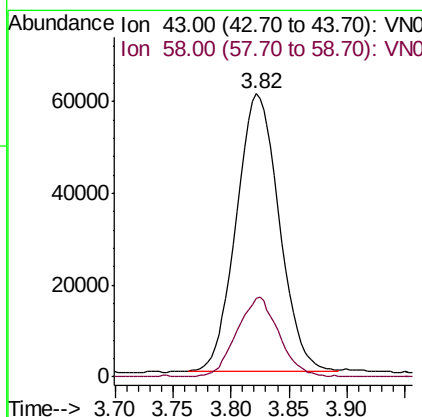
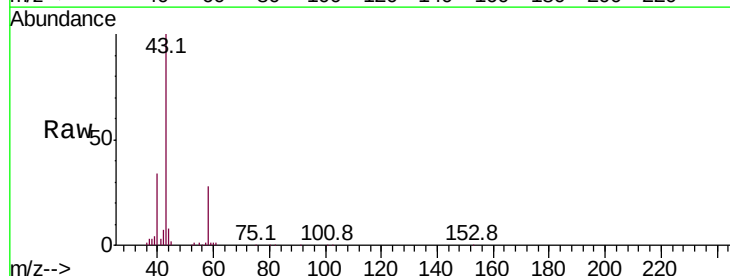
Manual Integrations
 APPROVED

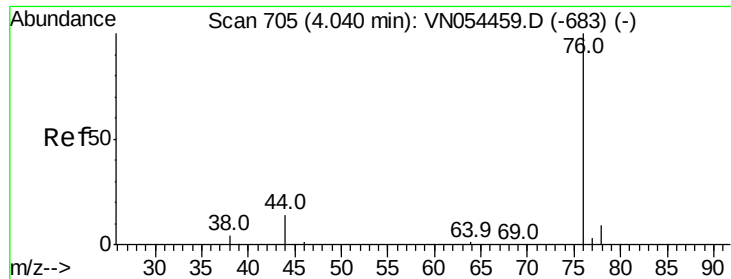
MMDadoda
 3/25/2019 3:11:12 PM



#16
 Acetone
 Concen: 89.458 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
43	100		
58	27.9	29.9	44.9#





#17

Carbon Disulfide

Concen: 18.459 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampled :

VN0322WBS01

Tot Ion: 76 Resp: 221288

Ion Ratio Lower Upper

76 100

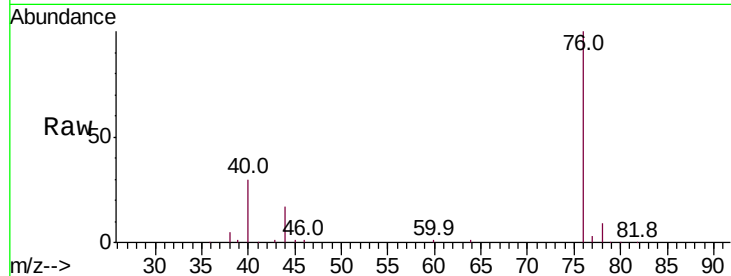
78 8.8 7.5 11.3

Manual Integrations

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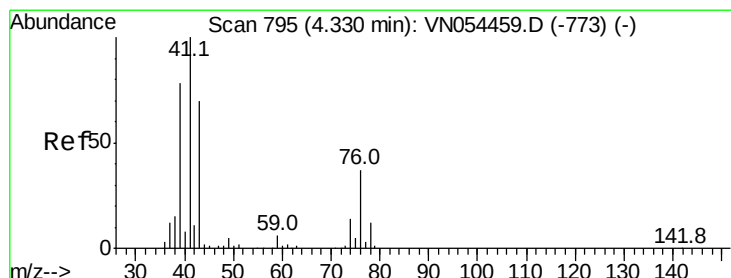
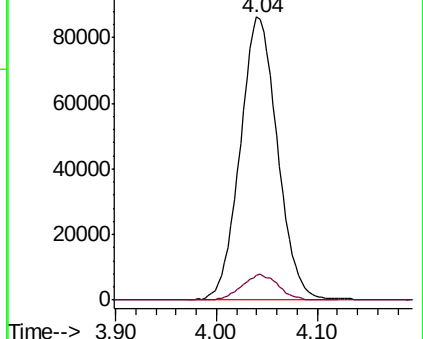
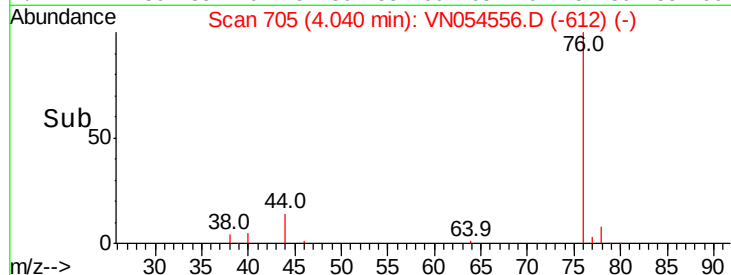
MMDadoda

3/25/2019 3:11:12 PM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 24.158 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054556.D

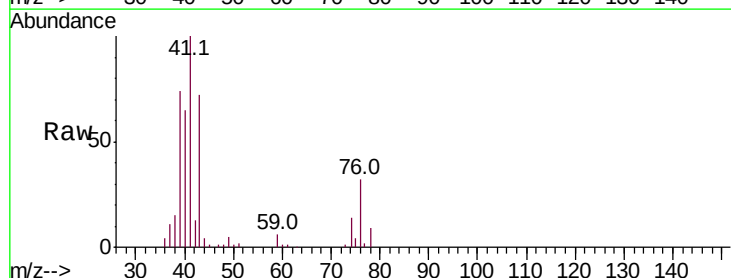
Acq: 22 Mar 2019 14:25

Tgt Ion: 43 Resp: 93408

Ion Ratio Lower Upper

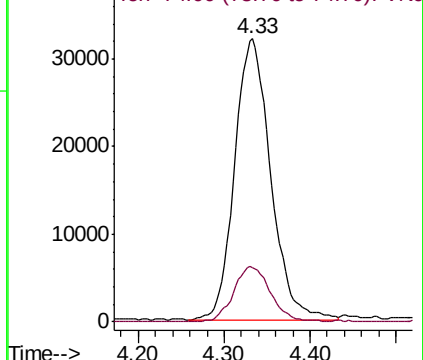
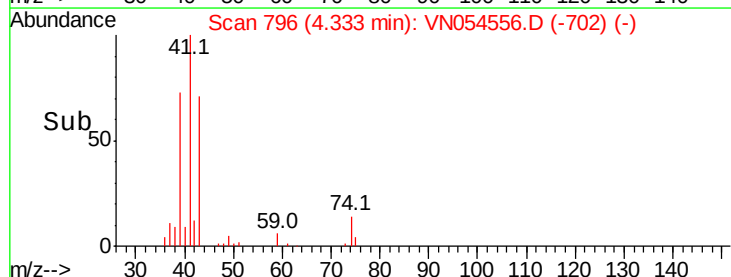
43 100

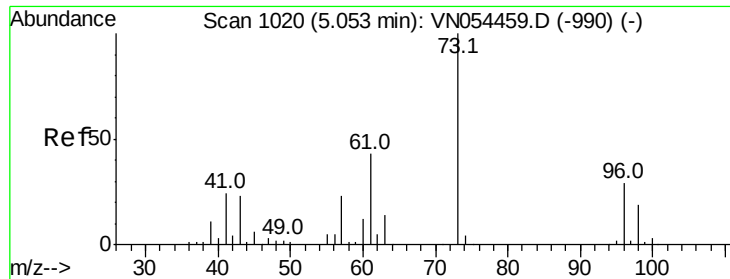
74 20.1 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





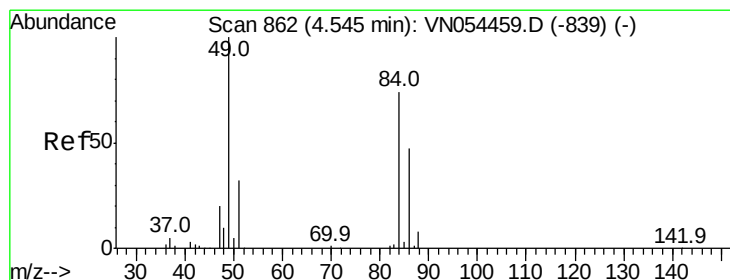
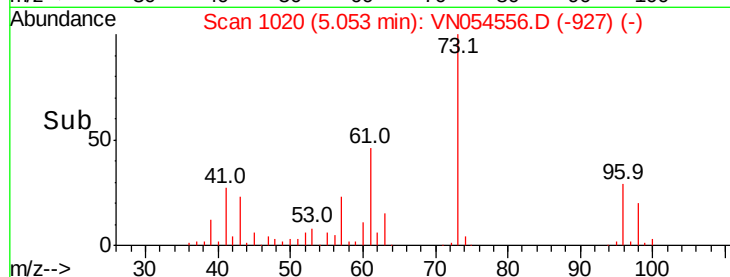
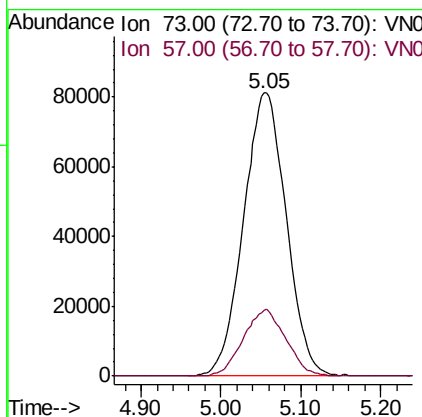
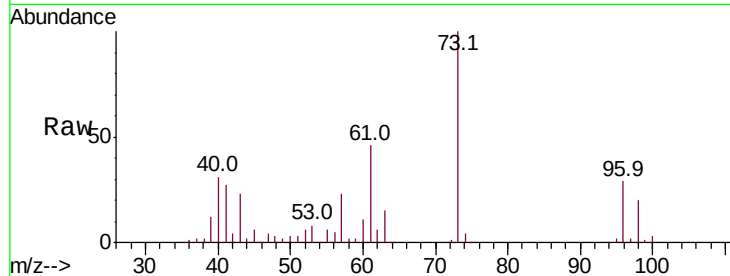
#19
Methvl tert-butyl Ether
Concen: 22.740 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.3	16.8	25.2

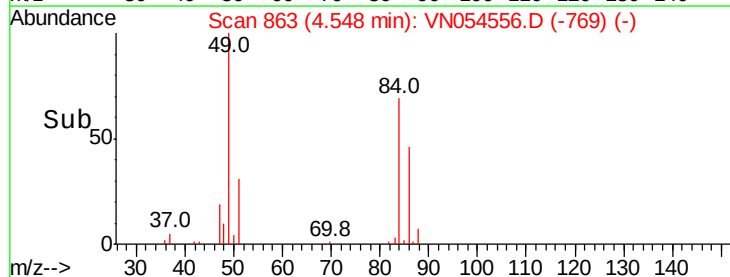
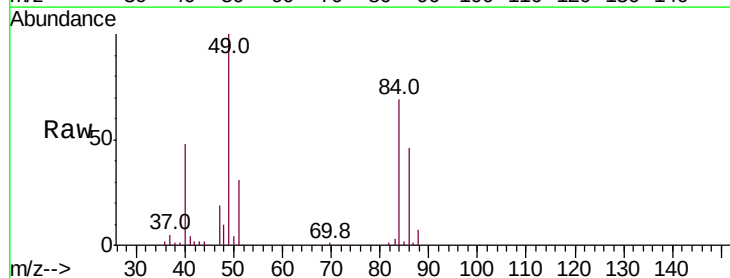
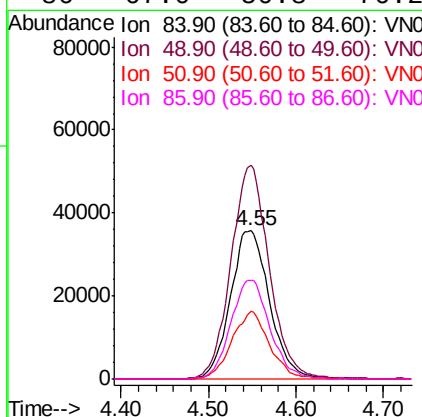
Manual Integrations
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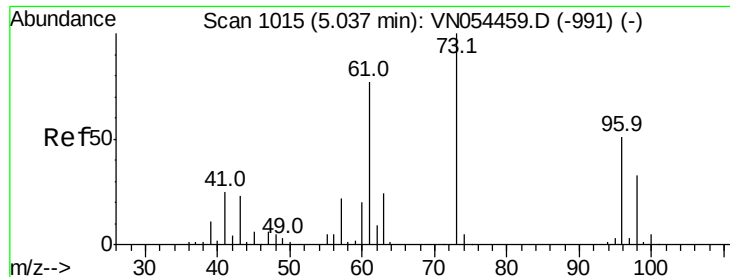
MMDadoda
3/25/2019 3:11:12 PM



#20
Methylene Chloride
Concen: 21.760 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
84	100		
49	144.3	89.7	134.5#
51	45.4	28.2	42.4#
86	67.0	50.8	76.2





#21

trans-1,2-Dichloroethene

Concen: 22.003 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 96 Resp: 100524

Ion Ratio Lower Upper

96 100

61 149.4 102.8 154.2

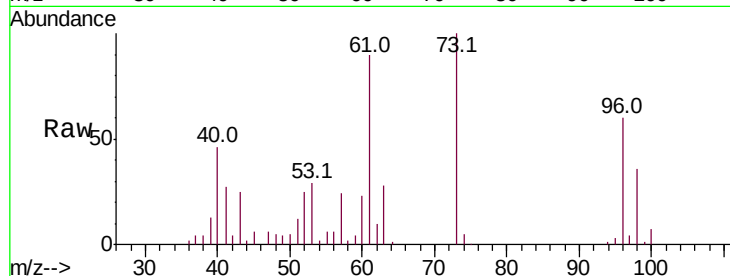
98 59.6 50.0 75.0

Manual Integrations

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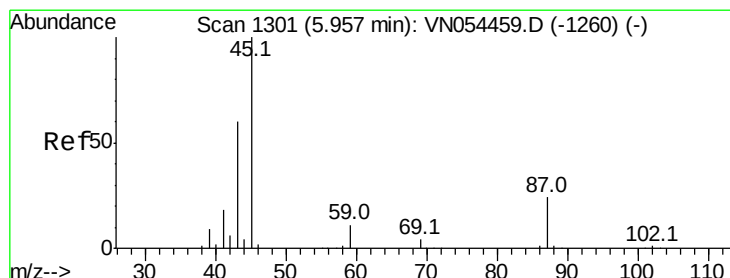
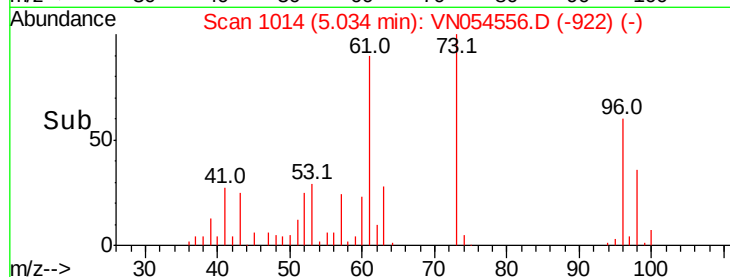
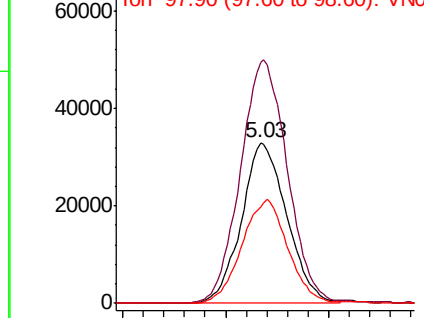
3/25/2019 3:11:12 PM



Abundance Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 23.792 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion: 45 Resp: 395384

Ion Ratio Lower Upper

45 100

43 61.1 48.2 72.2

87 23.3 24.9 37.3#

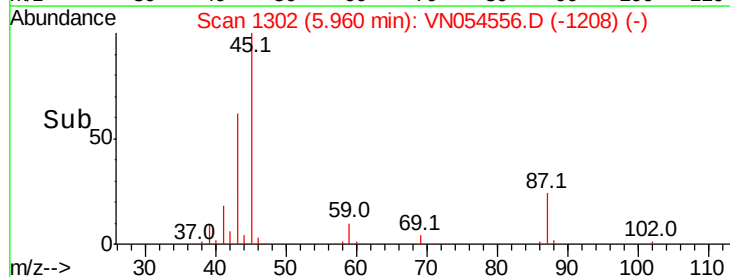
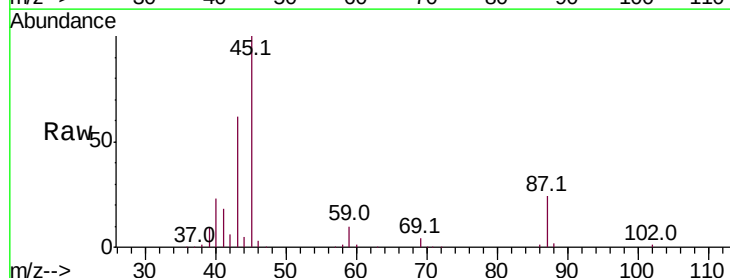
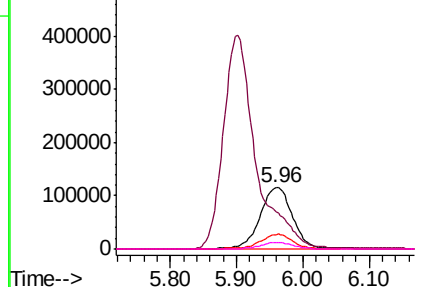
59 10.0 9.5 14.3

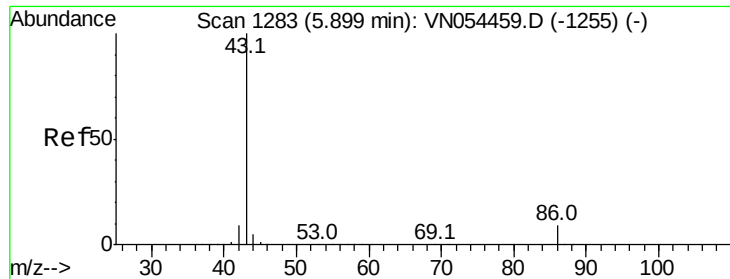
Abundance Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 116.870 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 43 Resp: 1371737

Ion Ratio Lower Upper

43 100

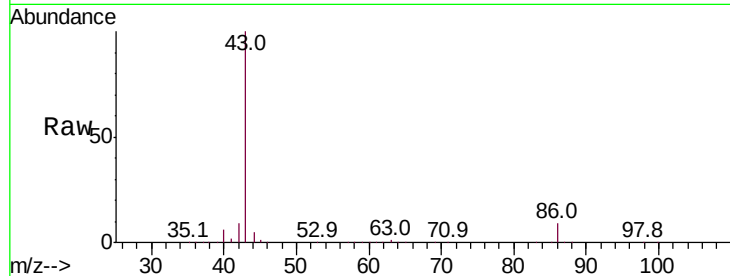
86 9.1 9.1 13.7#

Manual Integrations

APPROVED

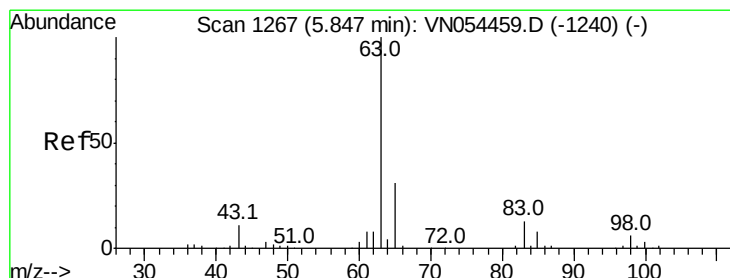
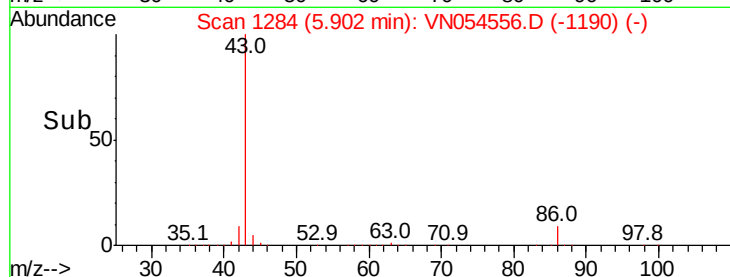
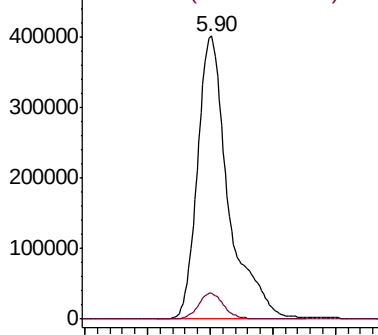
MMDadoda

3/25/2019 3:11:12 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 23.037 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

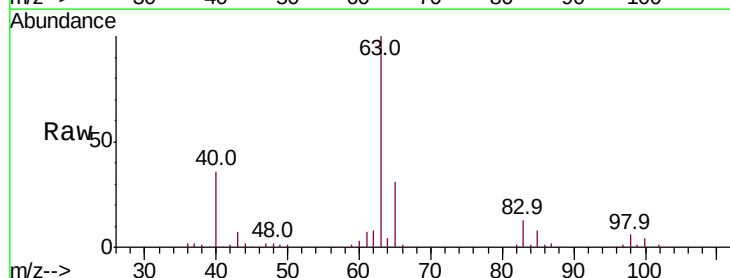
Tgt Ion: 63 Resp: 206140

Ion Ratio Lower Upper

63 100

98 5.5 3.5 10.5

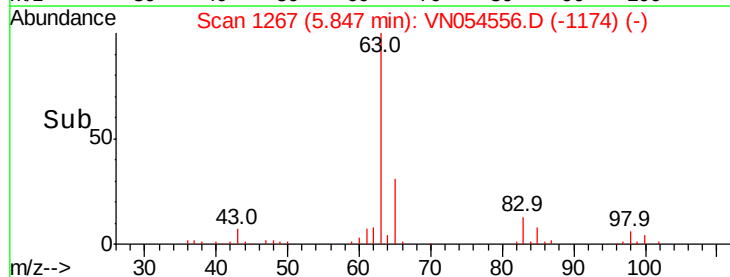
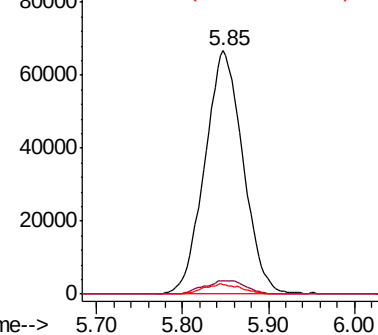
100 3.9 2.0 6.0

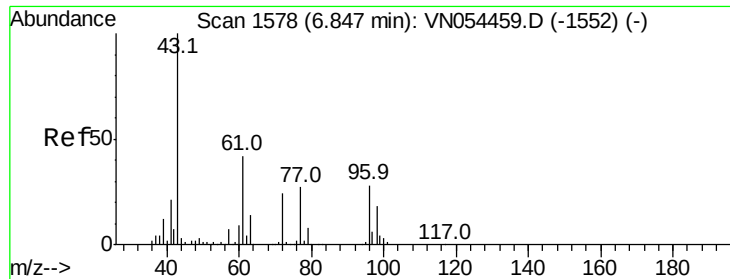


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 116.142 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampled :

VN0322WBS01

Tot Ion: 43 Resp: 258085

Ion Ratio Lower Upper

43 100

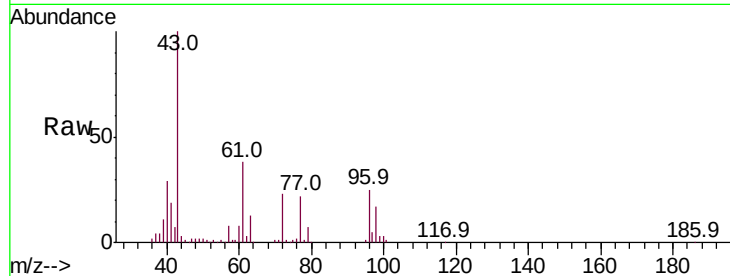
72 23.1 23.0 34.6

Manual Integrations

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MMDadoda

3/25/2019 3:11:12 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

80000

60000

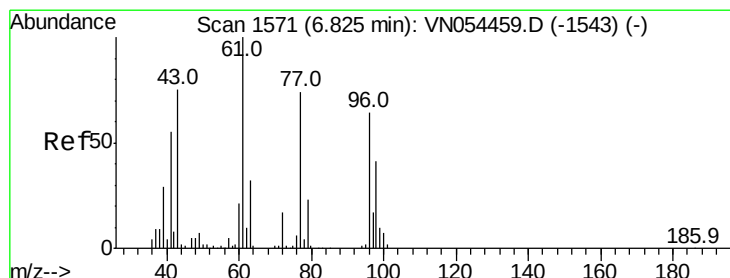
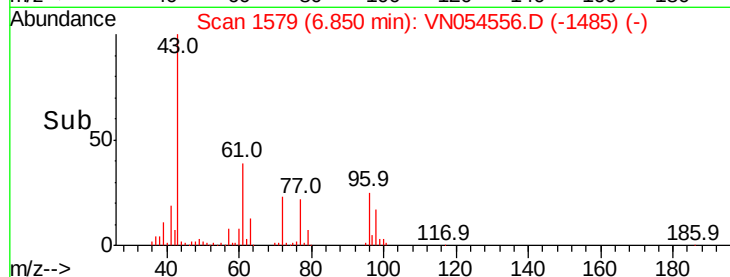
40000

20000

0

6.70 6.80 6.90

Time-->



#26

2,2-Dichloropropane

Concen: 20.530 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054556.D

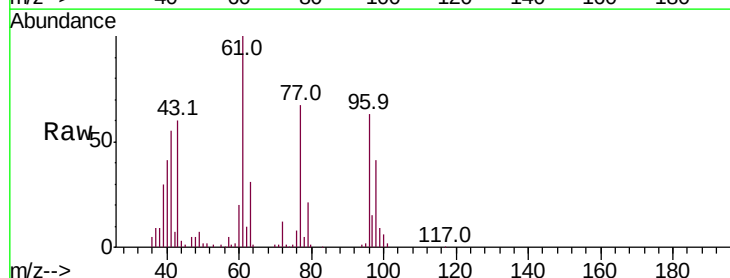
Acq: 22 Mar 2019 14:25

Tgt Ion: 77 Resp: 130952

Ion Ratio Lower Upper

77 100

97 23.1 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

50000

40000

30000

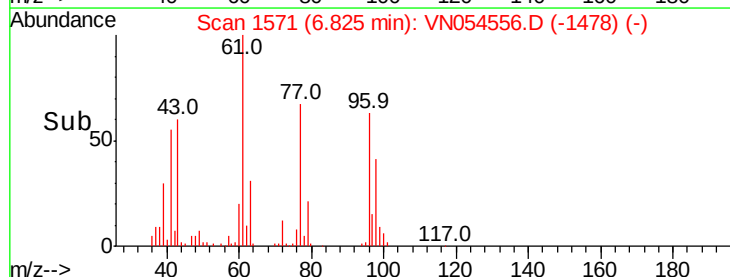
20000

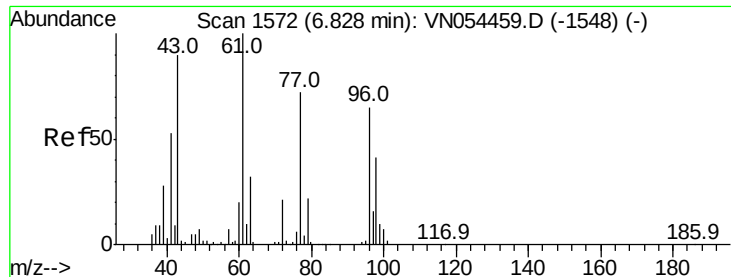
10000

0

6.70 6.80 6.90

Time-->





#27

cis-1,2-Dichloroethene

Concen: 21.618 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

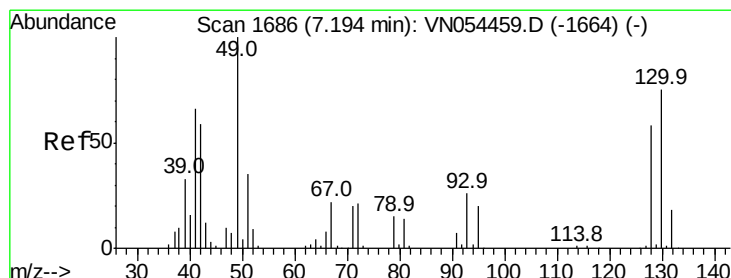
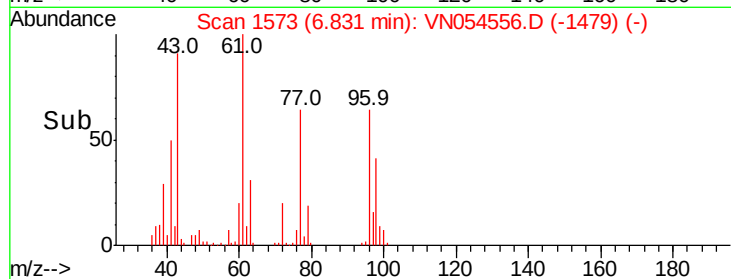
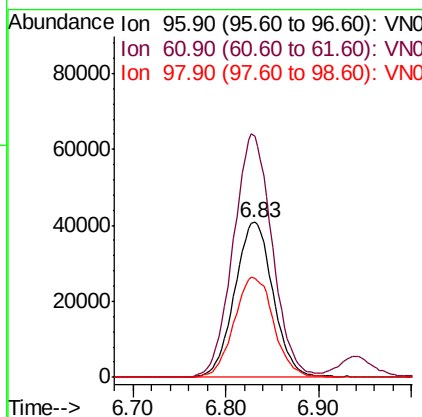
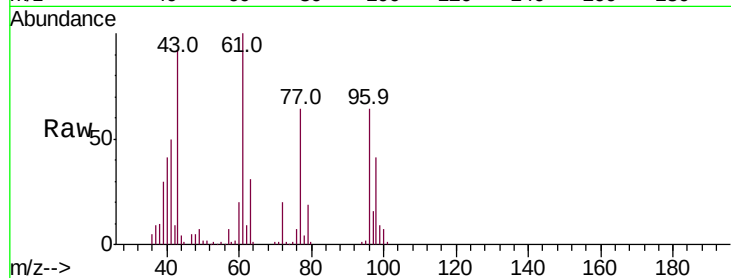
ClientSampleId :

VN0322WBS01

Tot Ion:	96	Resp:	117806
Ion	Ratio	Lower	Upper
96	100		
61	158.5	0.0	273.0
98	66.3	0.0	130.6

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#28

Bromochloromethane

Concen: 22.047 ug/l

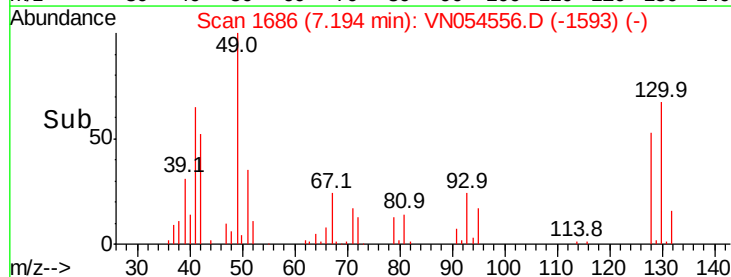
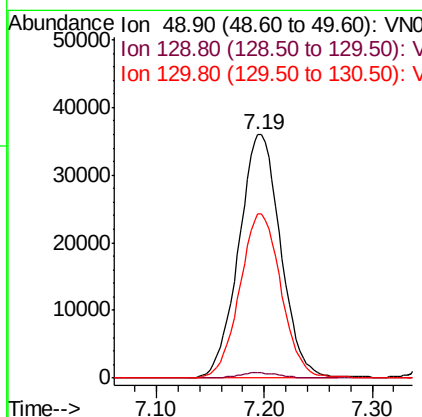
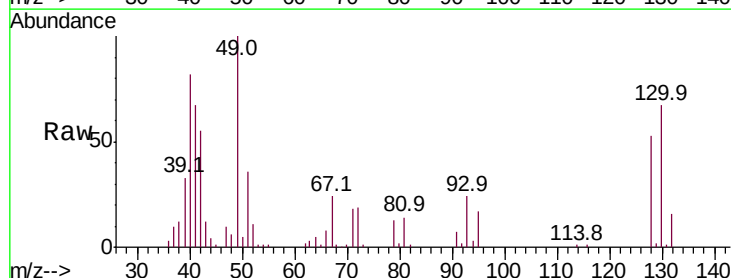
RT: 7.19 min Scan# 1686

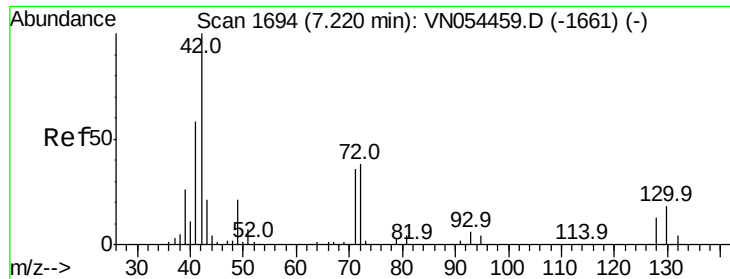
Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion:	49	Resp:	97103
Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.6
130	66.7	76.7	115.1#





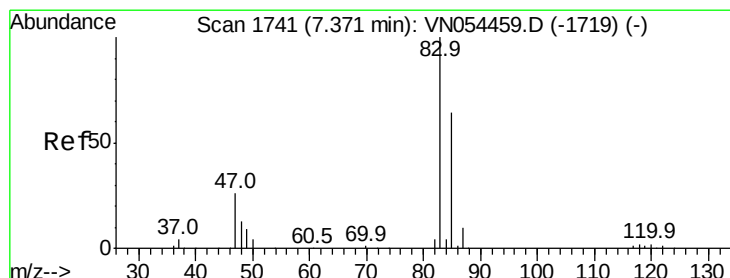
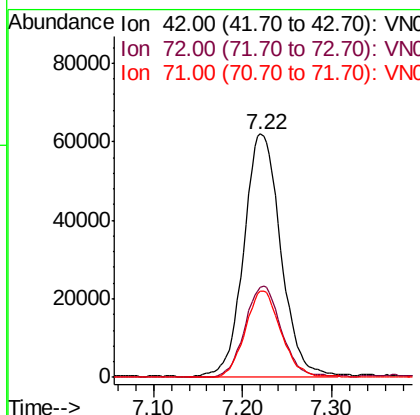
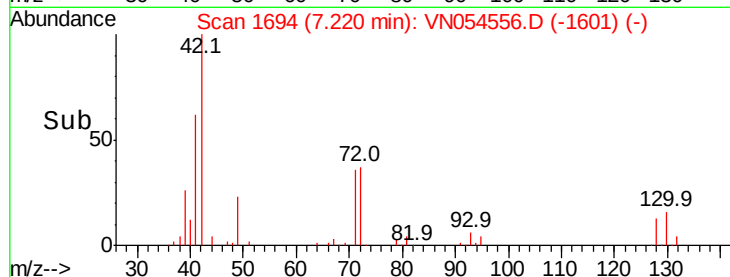
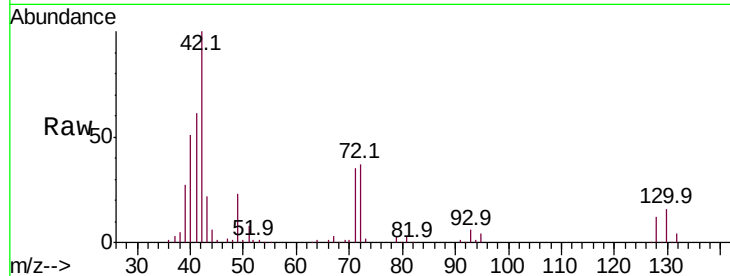
#29
Tetrahydrofuran
Concen: 123.100 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.0	37.8	56.6#
71	34.3	36.2	54.2#

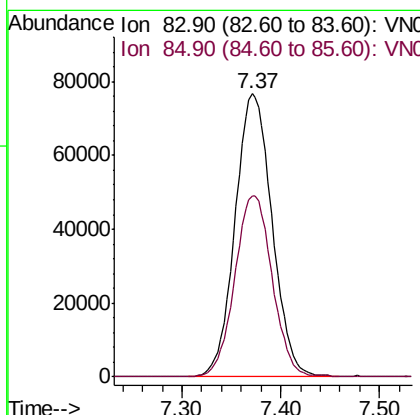
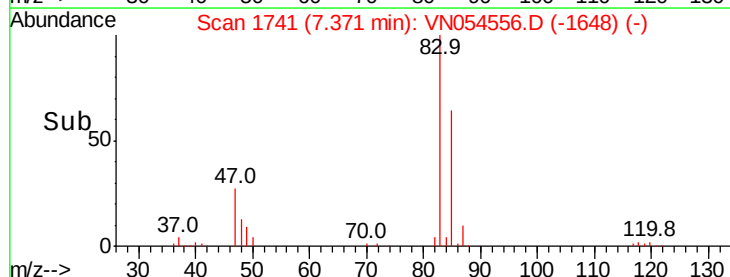
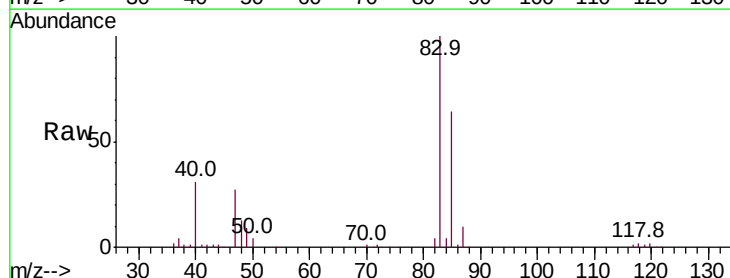
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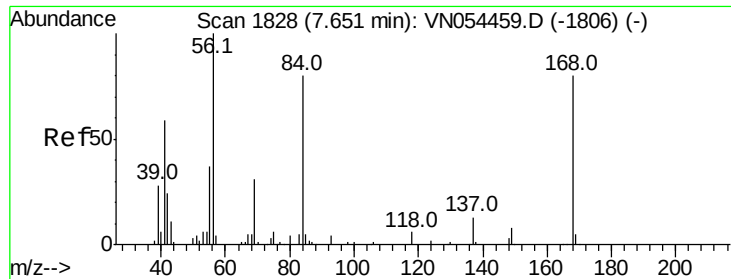
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#30
Chloroform
Concen: 22.836 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.2	78.4





#31

Cyclohexane

Concen: 22.090 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 56 Resp: 198291

Ion Ratio Lower Upper

56 100

69 35.1 27.8 41.6

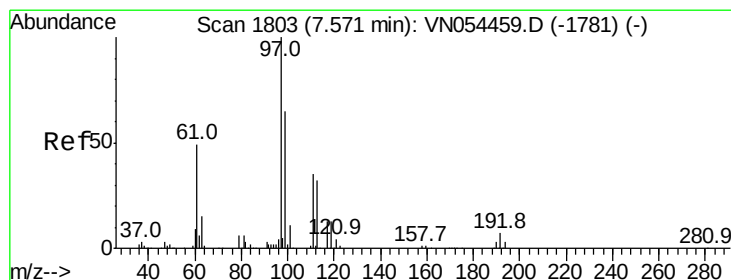
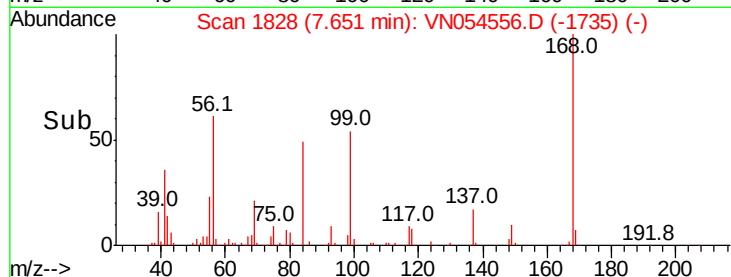
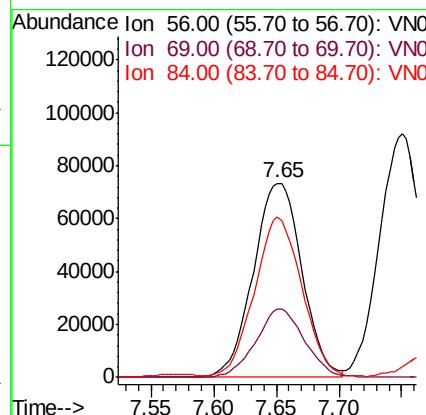
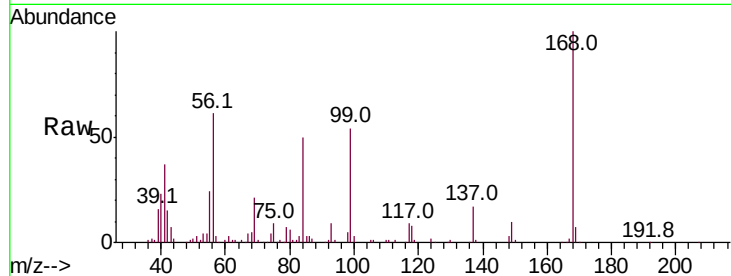
84 81.4 74.6 111.8

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 22.283 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

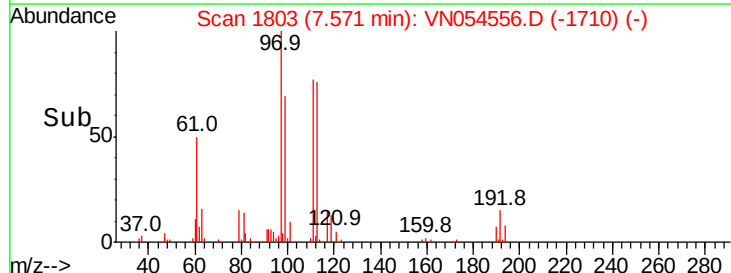
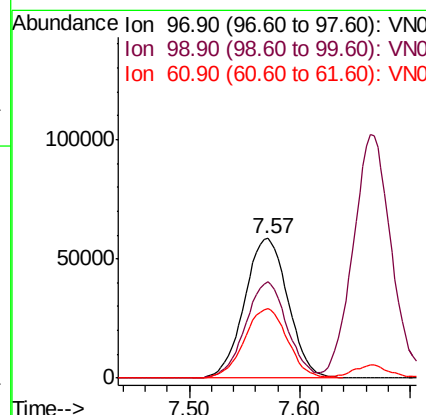
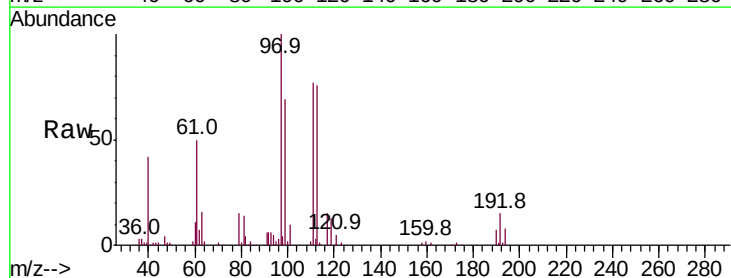
Tgt Ion: 97 Resp: 160533

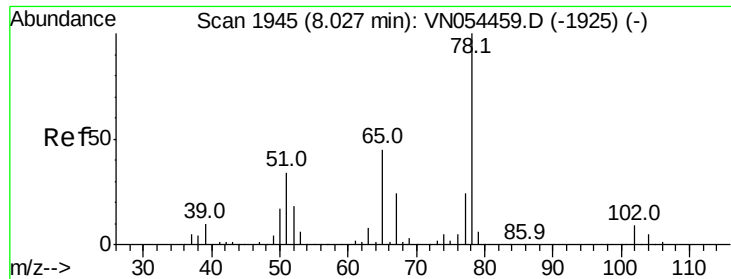
Ion Ratio Lower Upper

97 100

99 65.7 51.5 77.3

61 49.1 33.6 50.4





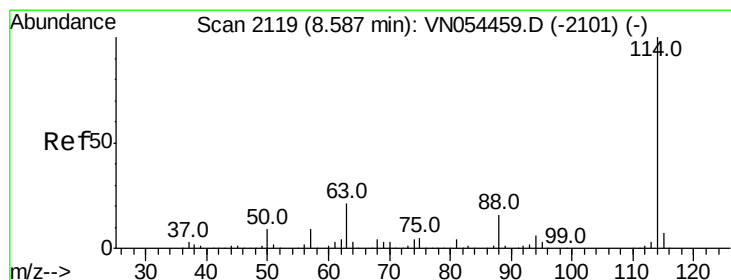
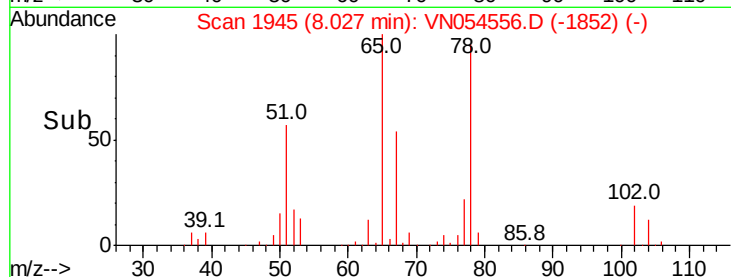
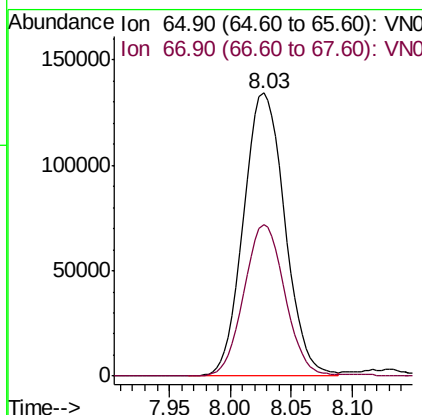
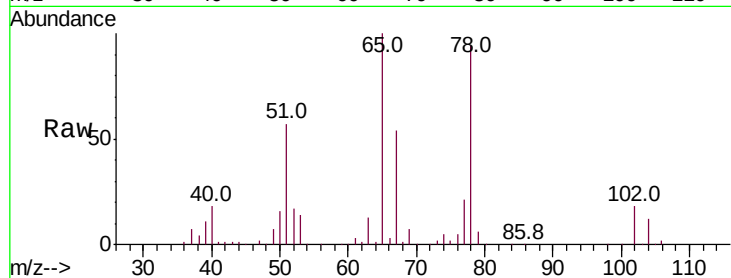
#33
 1,2-Dichloroethane-d4
 Concen: 54.699 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.5	0.0	104.6	

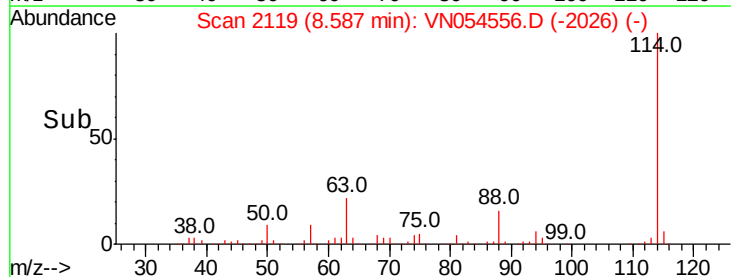
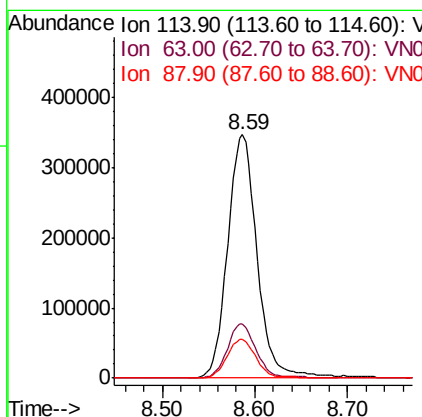
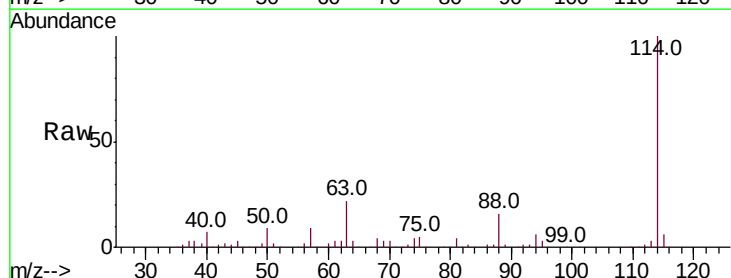
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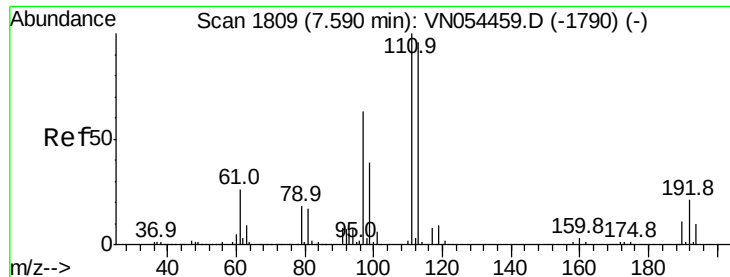
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.0	0.0	35.2	
88	15.8	0.0	30.2	





#35

Dibromofluoromethane

Concen: 50.874 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

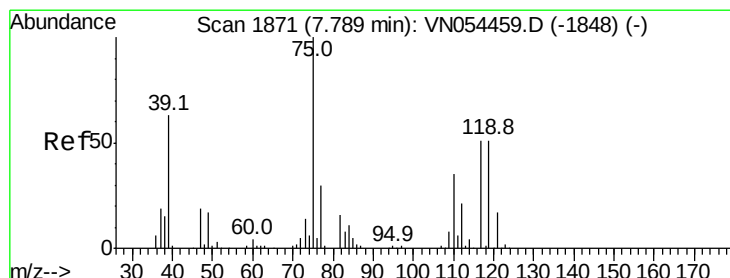
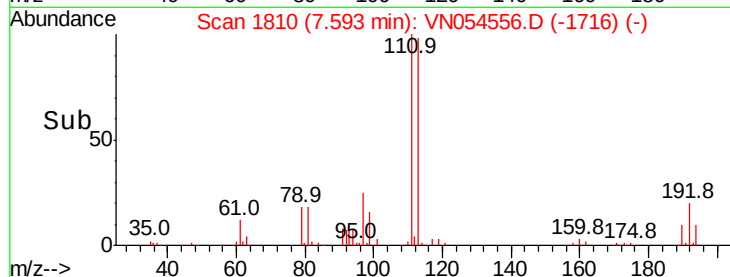
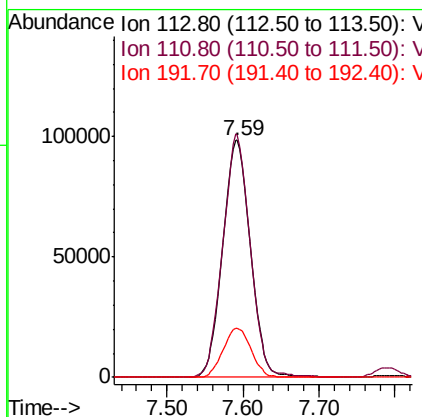
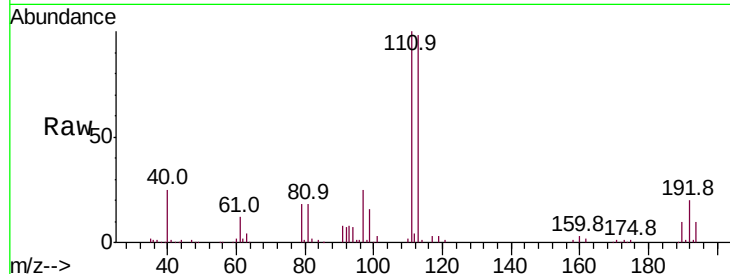
ClientSampleId :

VN0322WBS01

Tot Ion:	113	Resp:	250885
Ion Ratio	Lower	Upper	
113	100		
111	100.9	82.2	123.4
192	20.8	19.2	28.8

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 20.703 ug/l

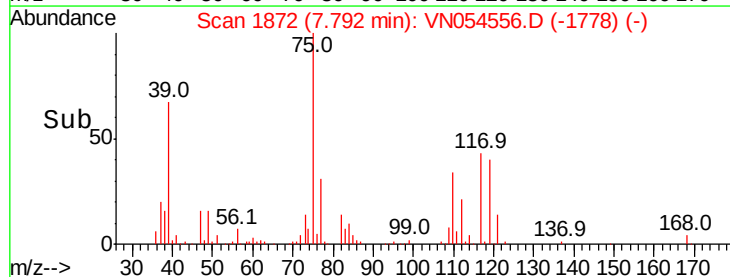
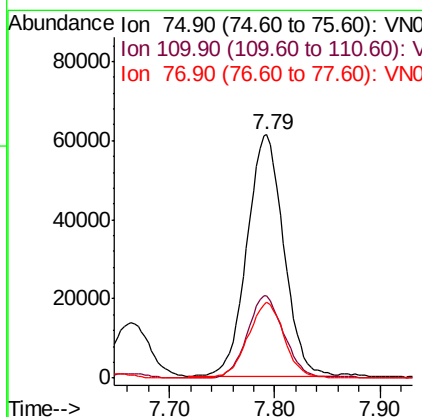
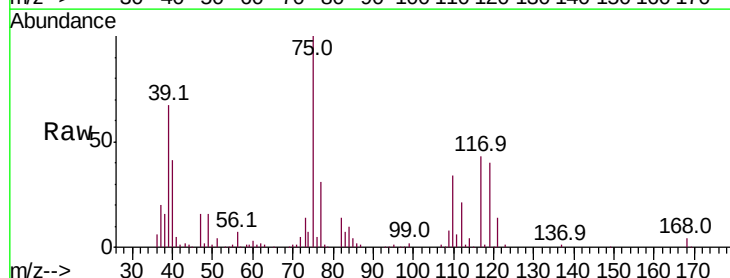
RT: 7.79 min Scan# 1872

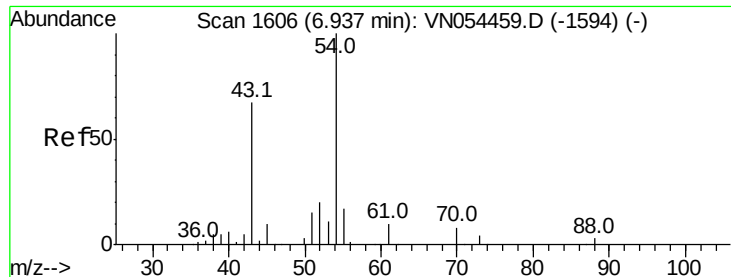
Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion:	75	Resp:	148172
Ion Ratio	Lower	Upper	
75	100		
110	34.3	19.1	57.5
77	31.1	25.0	37.4





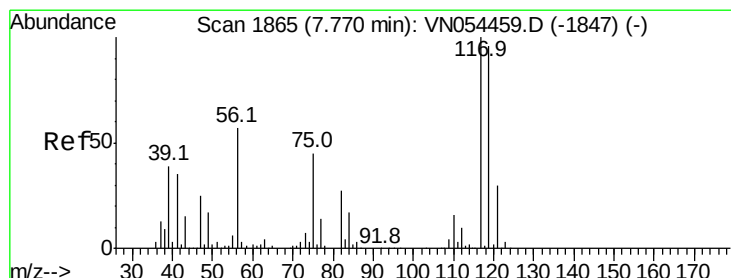
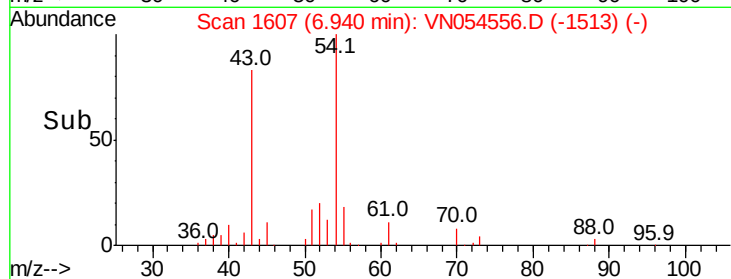
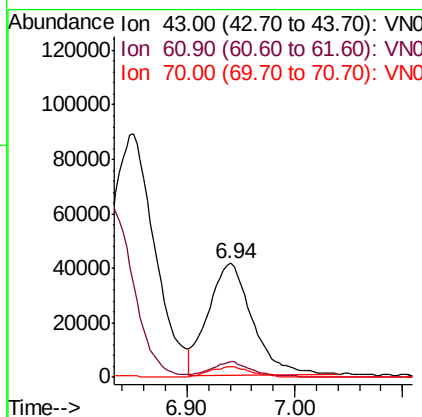
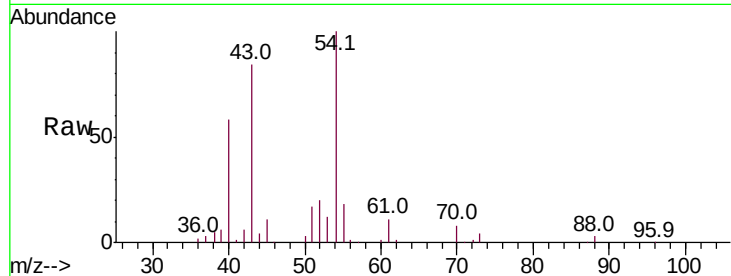
#37
Ethyl Acetate
Concen: 22.832 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampled :
VN0322WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.5	11.8	17.6
70	9.2	8.4	12.6

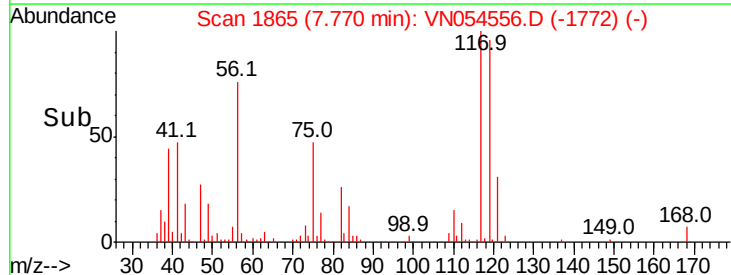
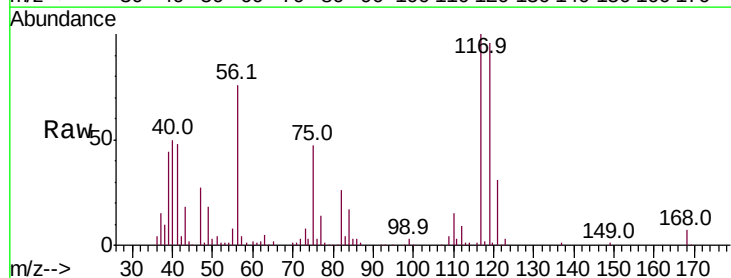
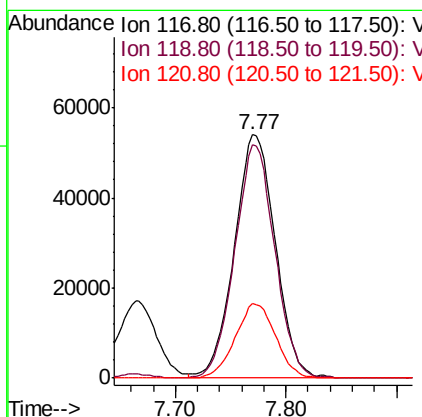
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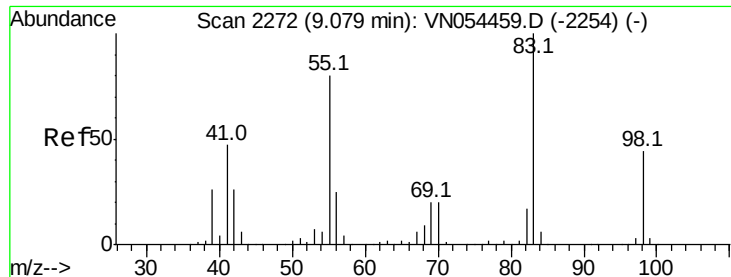
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#38
Carbon Tetrachloride
Concen: 19.867 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.3	114.5
121	30.8	24.6	36.8





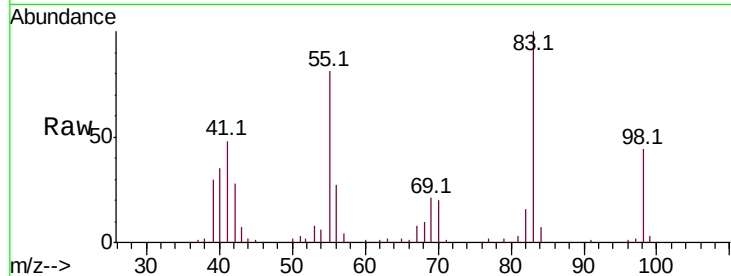
#39
Methylvlcyclohexane
Concen: 19.971 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.8	56.6	84.8
98	44.2	38.4	57.6

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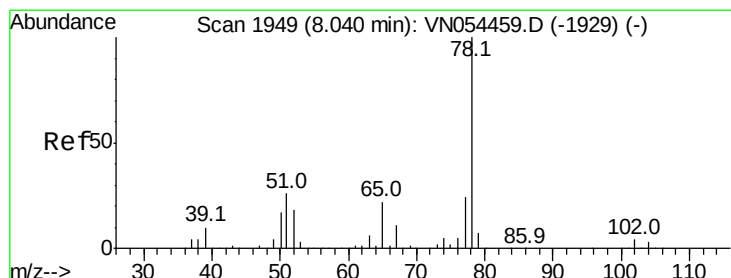
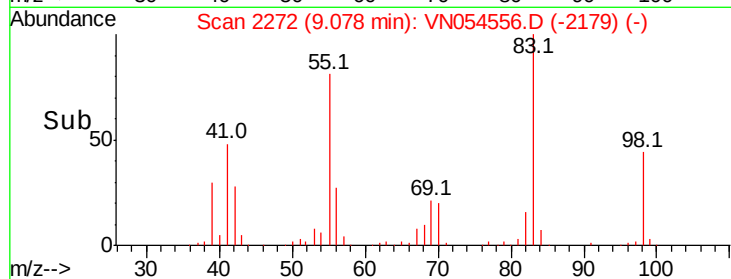
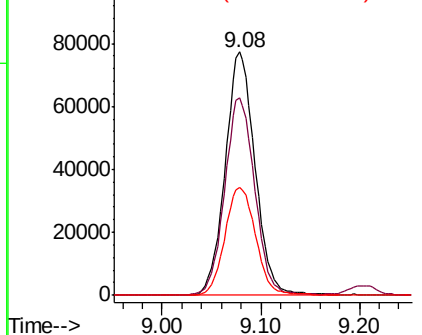


Abundance

Ion 83.00 (82.70 to 83.70): VN0

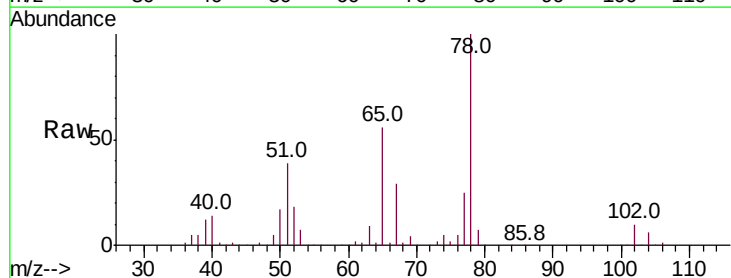
Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40
Benzene
Concen: 21.700 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

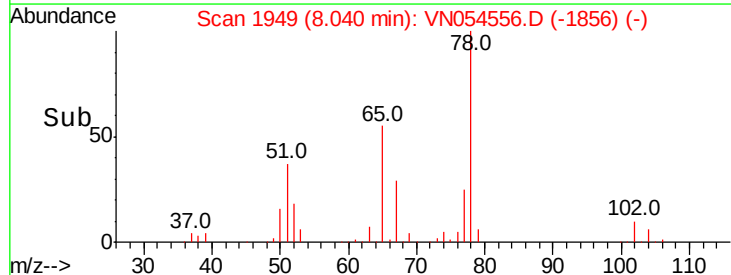
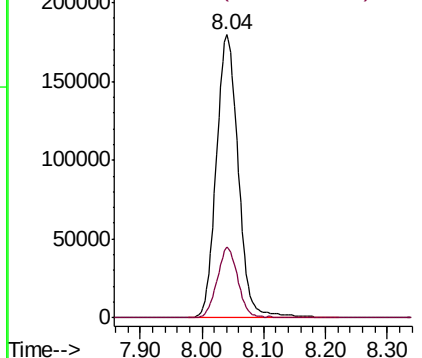
Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.8	19.1	28.7

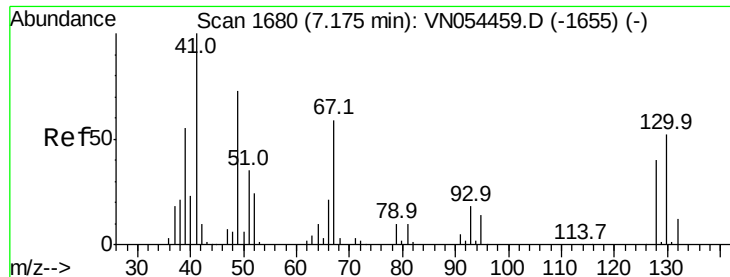


Abundance

Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#41

Methacrylonitrile

Concen: 22.216 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 41 Resp: 68968

Ion Ratio Lower Upper

41 100

39 54.8 46.8 70.2

67 65.4 67.0 100.4#

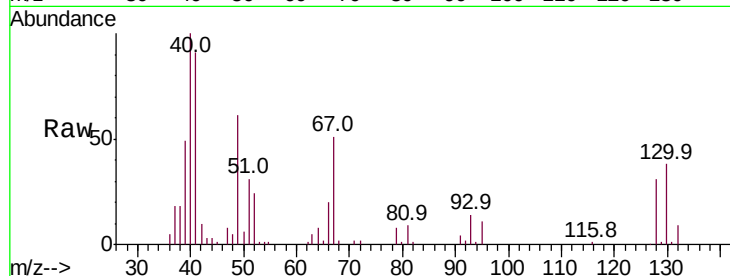
52 29.7 26.5 39.7

Manual Integrations

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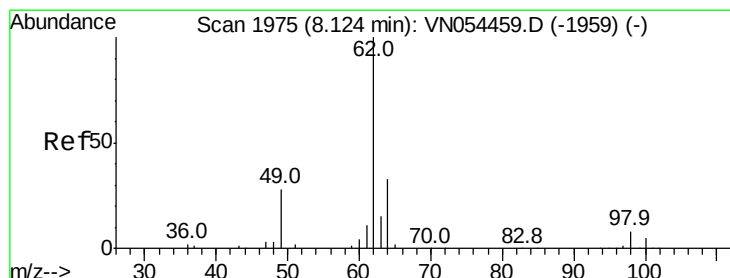
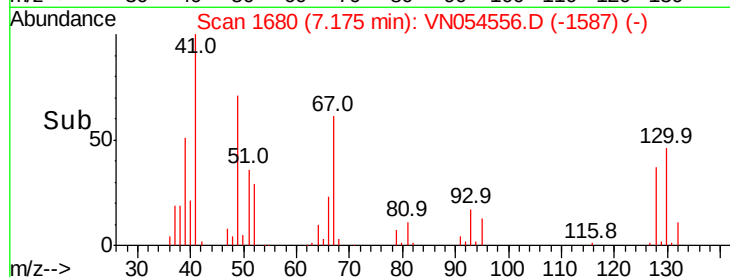
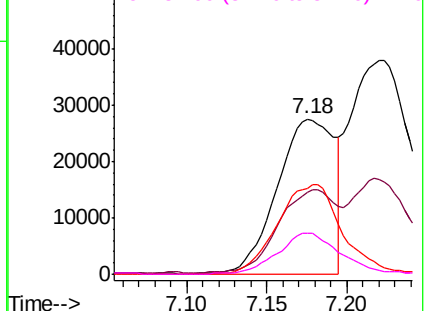
Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#42

1,2-Dichloroethane

Concen: 21.385 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN054556.D

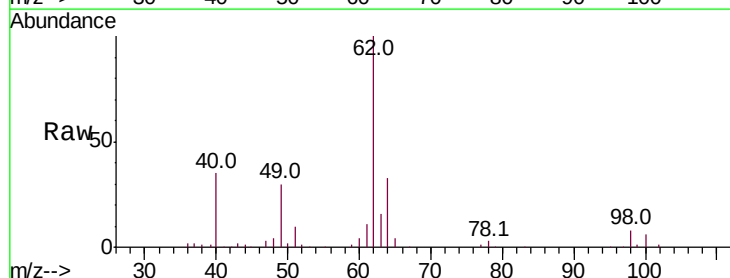
Acq: 22 Mar 2019 14:25

Tgt Ion: 62 Resp: 159393

Ion Ratio Lower Upper

62 100

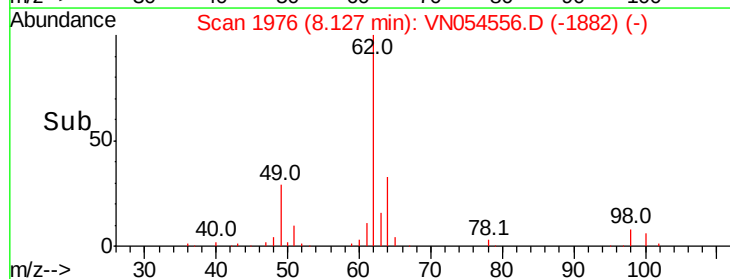
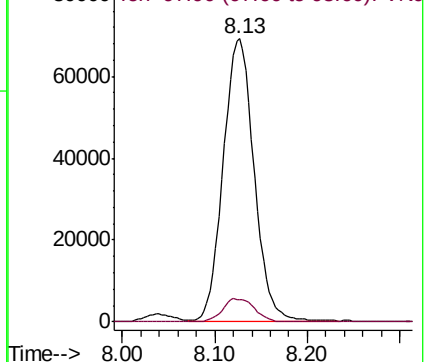
98 8.5 0.0 18.4

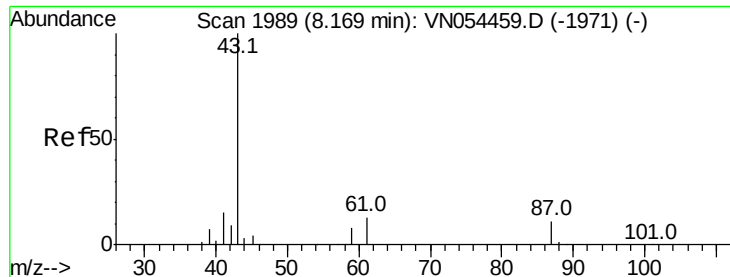


Abundance

Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 22.295 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

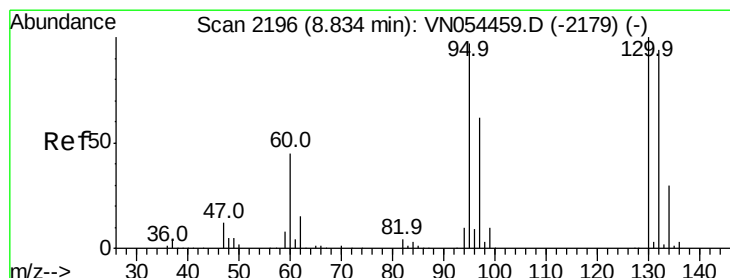
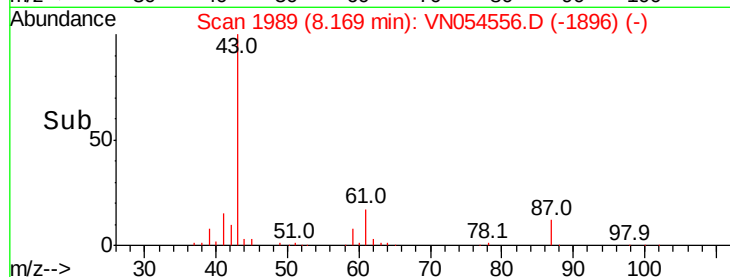
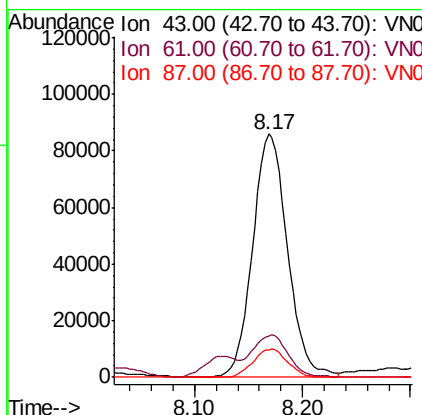
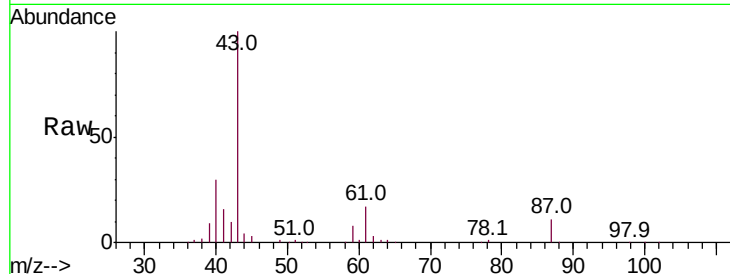
ClientSampleId :

VN0322WBS01

Tot Ion:	43	Resp:	191669
Ion	Ratio	Lower	Upper
43	100		
61	17.6	15.8	23.8
87	11.7	12.0	18.0#

Manual Integrations
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#44

Trichloroethene

Concen: 20.178 ug/l

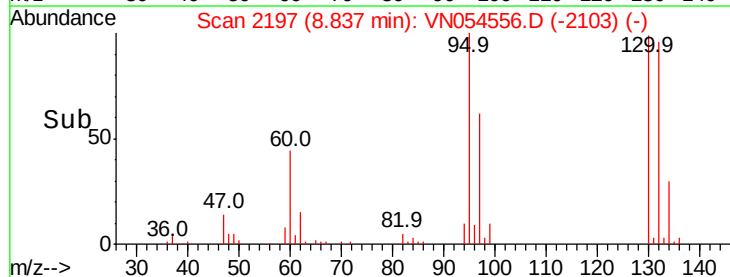
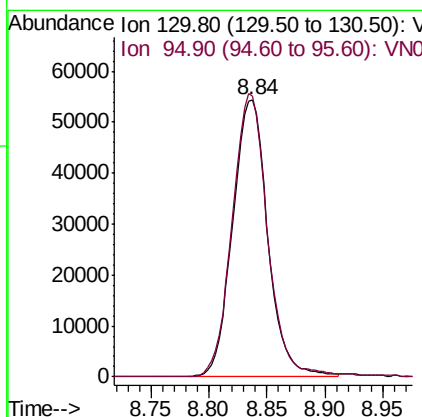
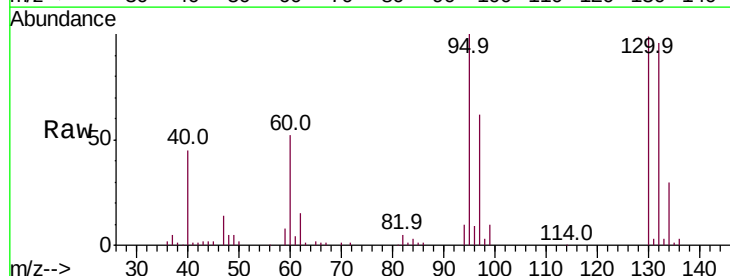
RT: 8.84 min Scan# 2197

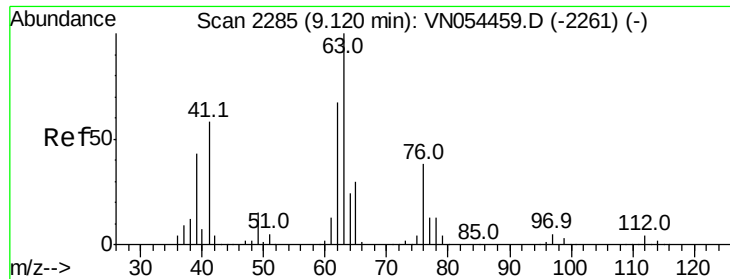
Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion:	130	Resp:	114813
Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	185.2





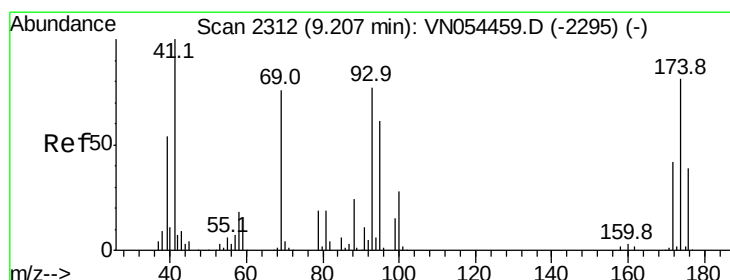
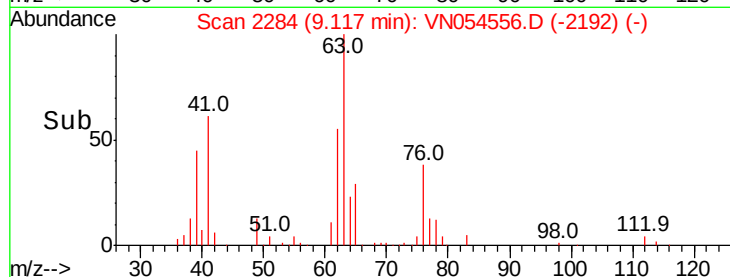
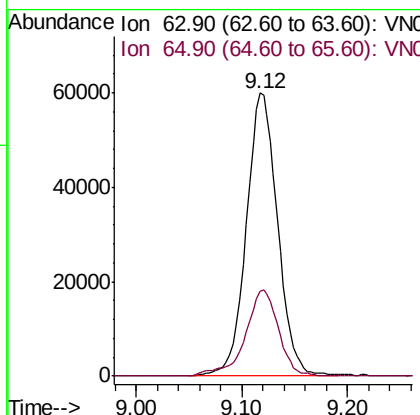
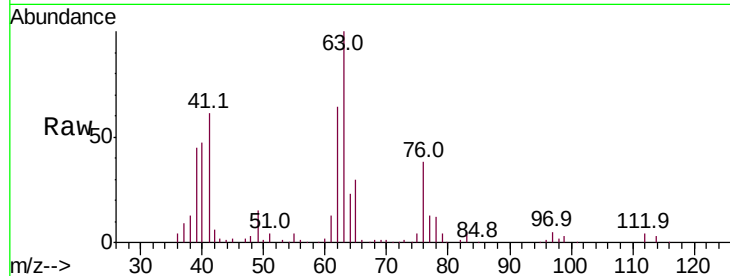
#45
1,2-Dichloropropane
Concen: 22.514 ug/l
RT: 9.12 min Scan# 2284
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion: 63 Resp: 123730
Ion Ratio Lower Upper
63 100
65 29.8 25.0 37.6

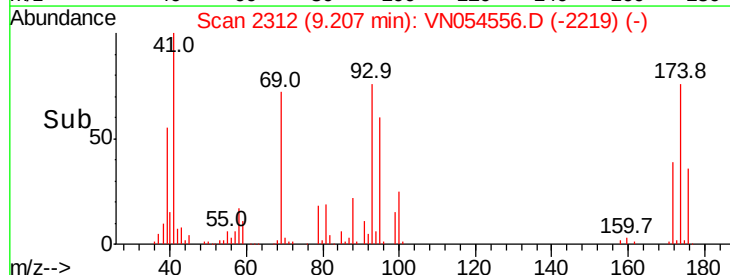
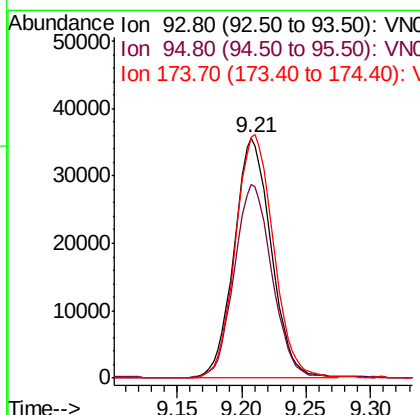
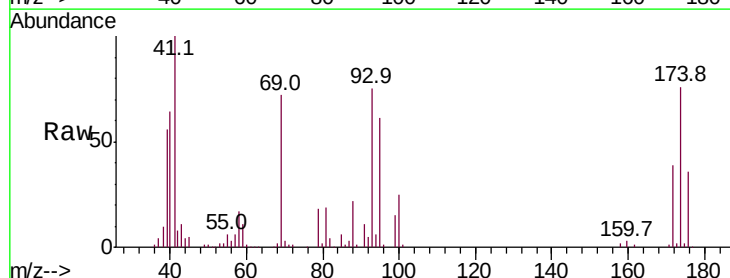
Manual Integrations
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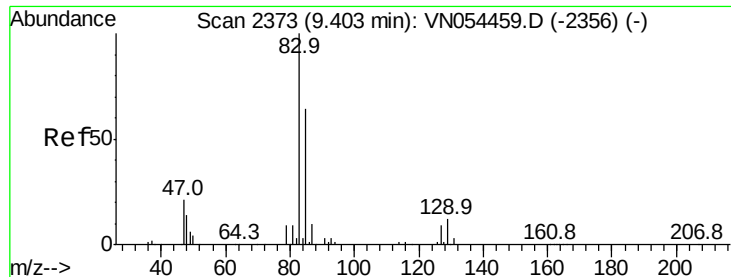
MMDadoda
3/25/2019 3:11:12 PM



#46
Dibromomethane
Concen: 21.757 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion: 93 Resp: 71332
Ion Ratio Lower Upper
93 100
95 82.5 66.7 100.1
174 104.5 98.5 147.7





#47

Bromodichloromethane

Concen: 20.656 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

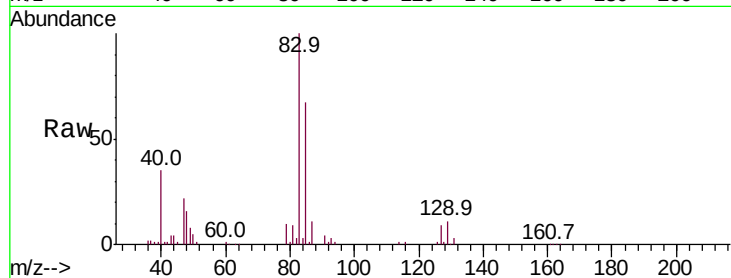
ClientSampleId :

VN0322WBS01

Tot Ion:	83	Resp:	140547
Ion Ratio	Lower	Upper	
83	100		
85	66.9	52.8	79.2
127	8.7	7.4	11.2

Manual Integrations
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3/25/2019 3:11:12 PM

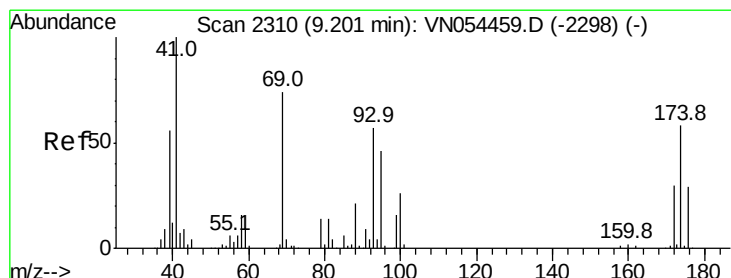
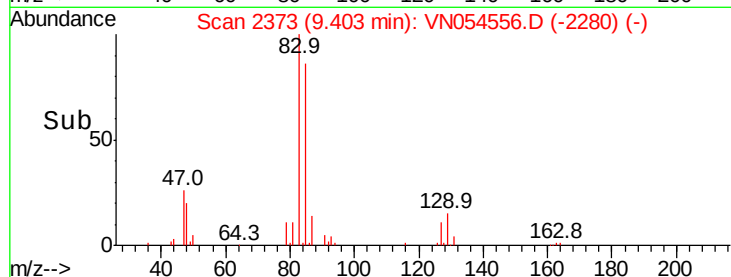


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): VN0

Time--> 9.30 9.35 9.40 9.45 9.50



#48

Methyl methacrylate

Concen: 21.057 ug/l

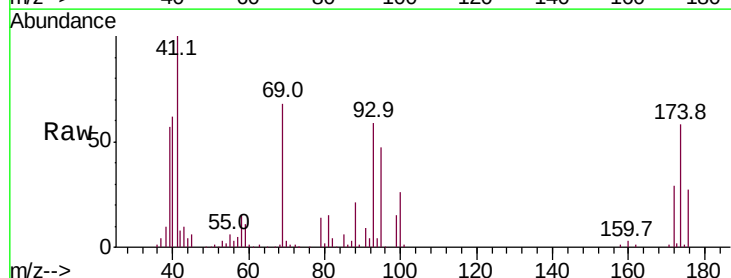
RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion:	41	Resp:	98252
Ion Ratio	Lower	Upper	
41	100		
69	74.3	72.6	108.8
39	57.6	47.5	71.3

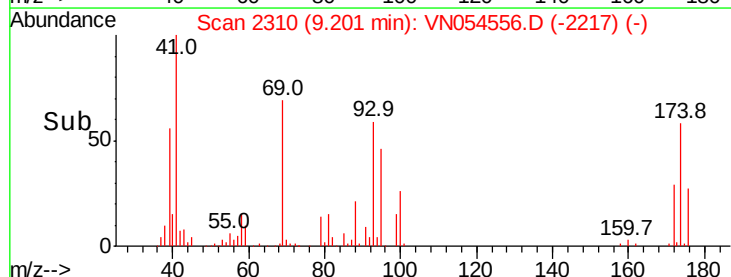


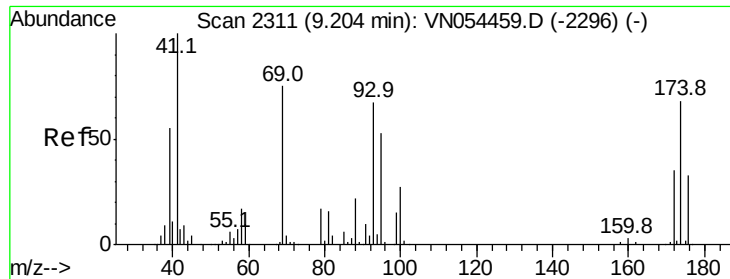
Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Time--> 9.15 9.20 9.25





#49

1,4-Dioxane

Concen: 426.401 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 88 Resp: 22243

Ion Ratio Lower Upper

88 100

43 39.8 24.1 36.1#

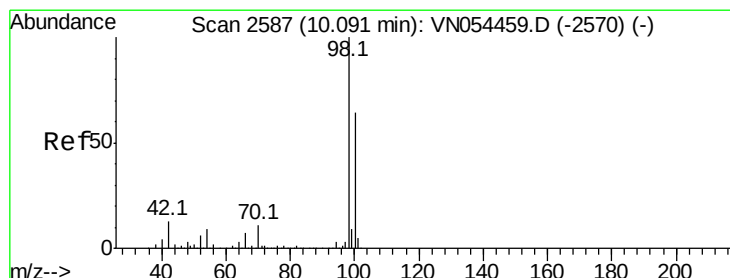
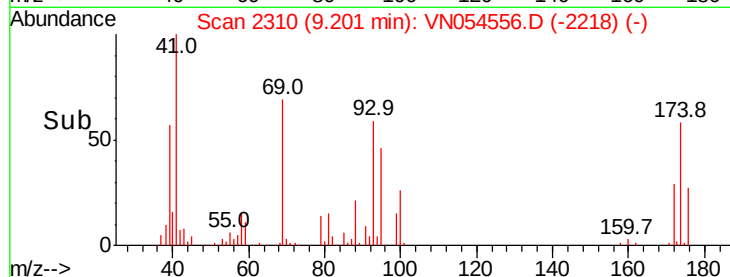
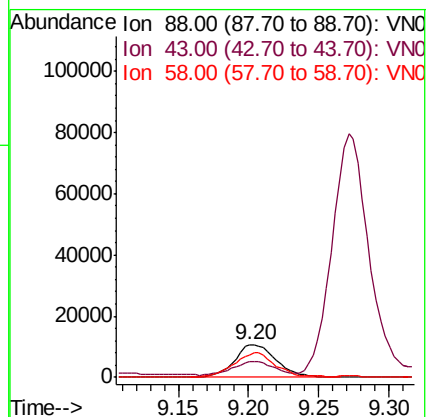
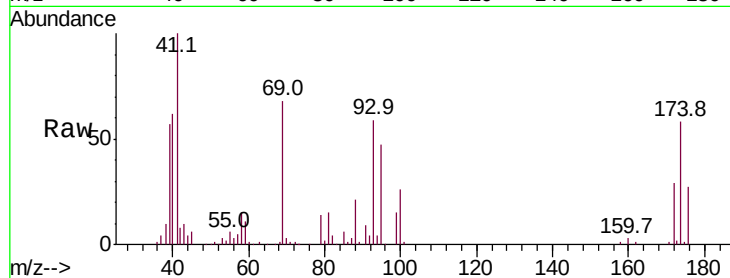
58 74.5 50.8 76.2

Manual Integrations

APPROVED

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#50

Toluene-d8

Concen: 49.719 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054556.D

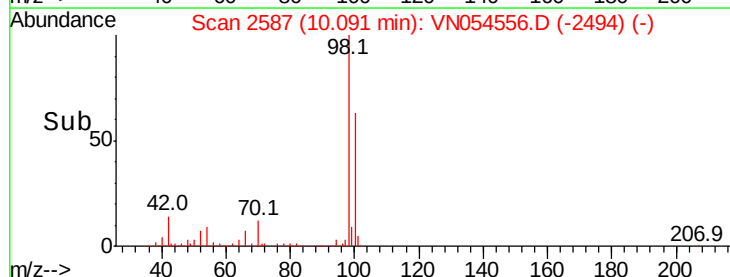
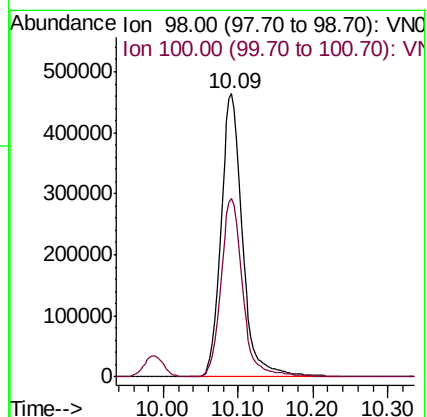
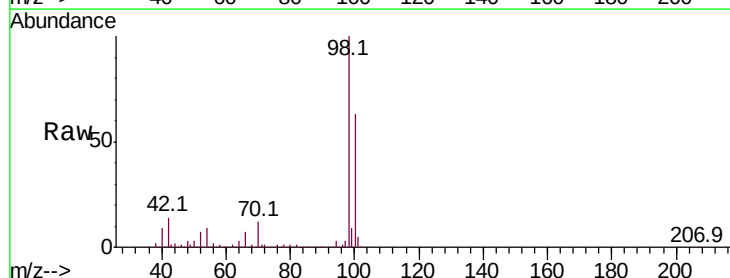
Acq: 22 Mar 2019 14:25

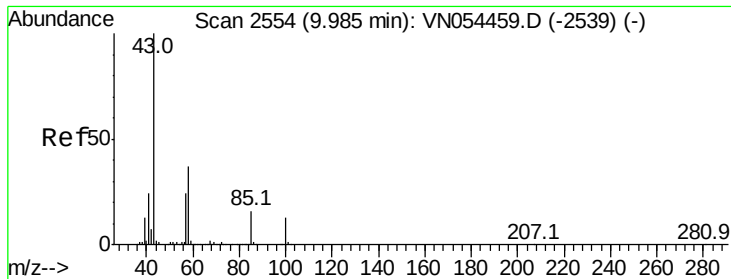
Tgt Ion: 98 Resp: 921752

Ion Ratio Lower Upper

98 100

100 63.8 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 115.826 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 43 Resp: 551853

Ion Ratio Lower Upper

43 100

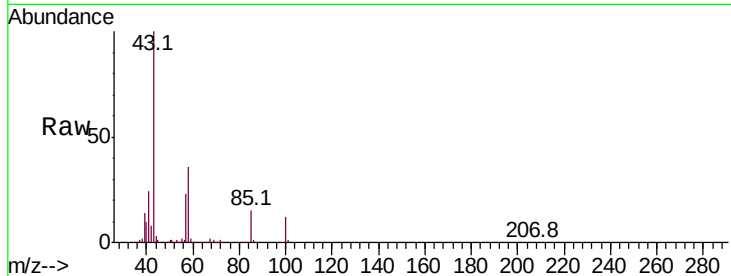
58 35.3 31.8 47.6

Manual Integrations

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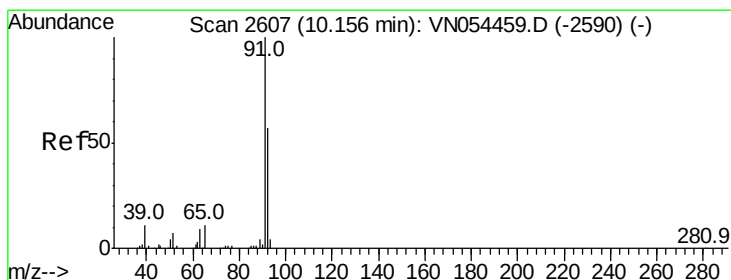
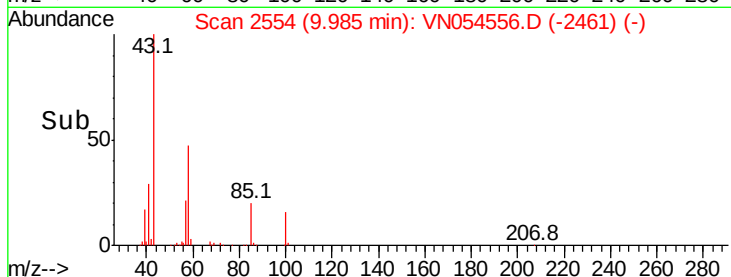
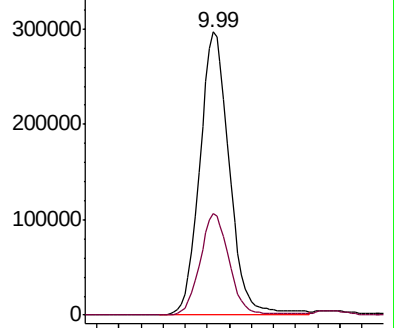
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.823 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054556.D

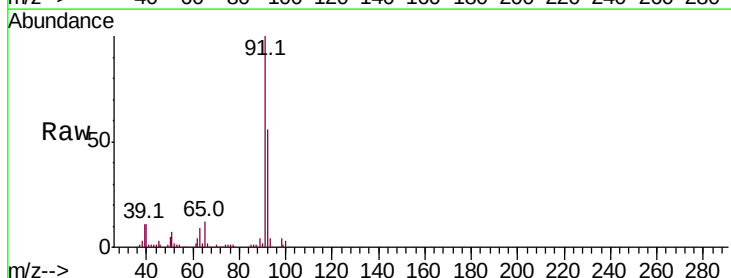
Acq: 22 Mar 2019 14:25

Tgt Ion: 92 Resp: 262114

Ion Ratio Lower Upper

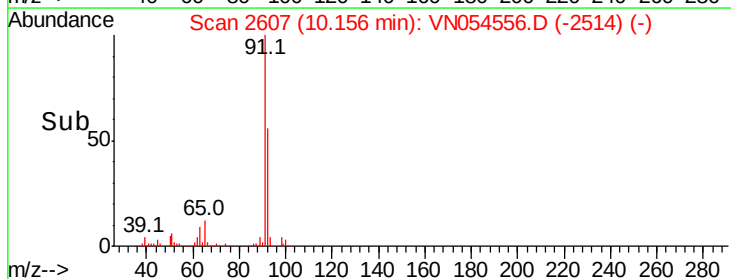
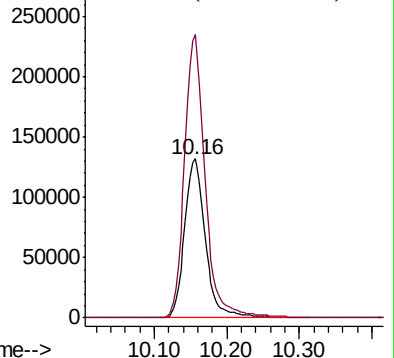
92 100

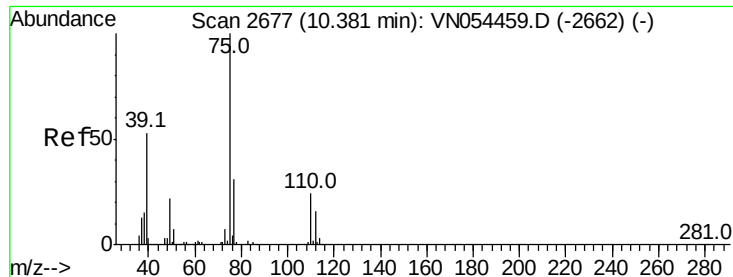
91 176.6 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 19.276 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 75 Resp: 128051

Ion Ratio Lower Upper

75 100

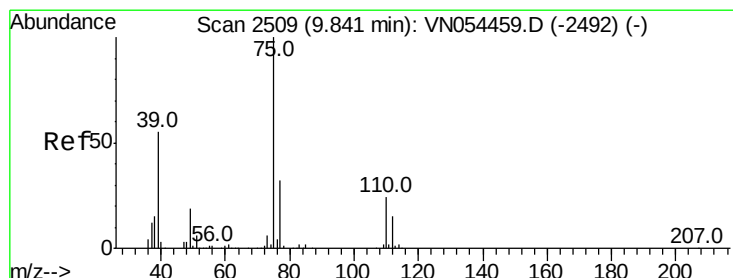
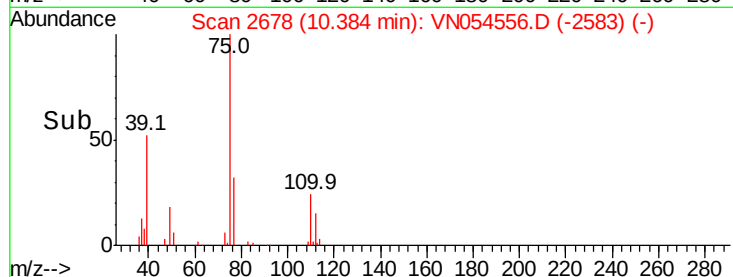
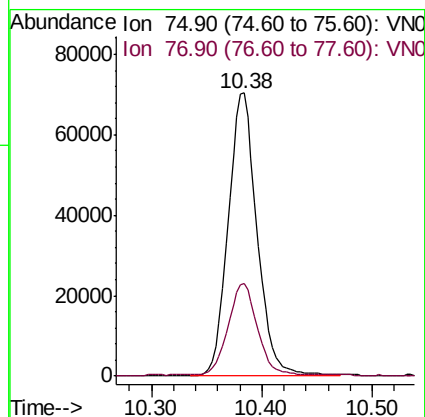
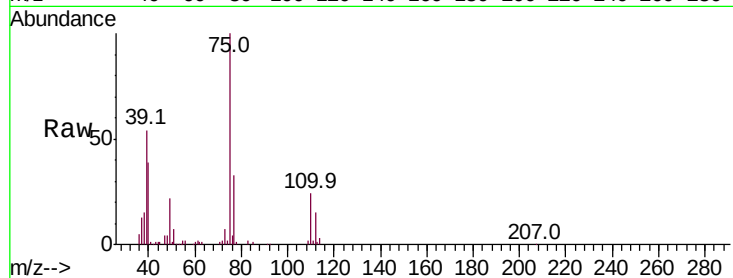
77 32.4 25.8 38.8

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.832 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

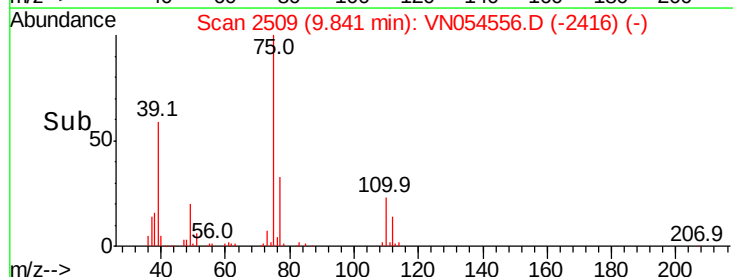
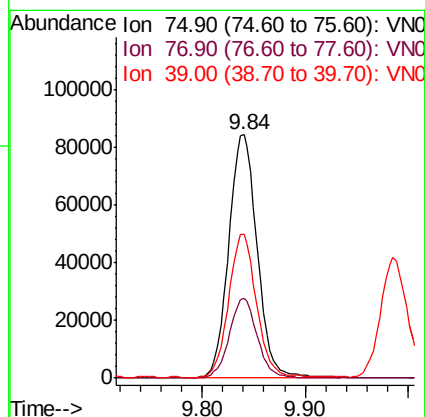
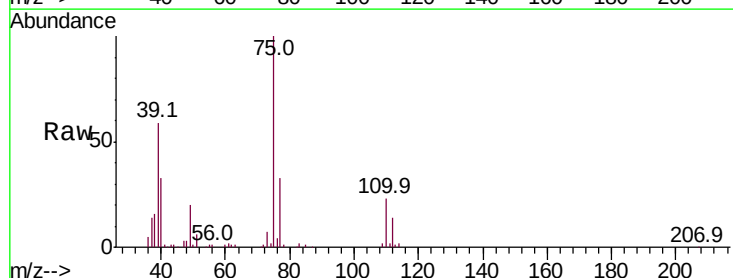
Tgt Ion: 75 Resp: 162525

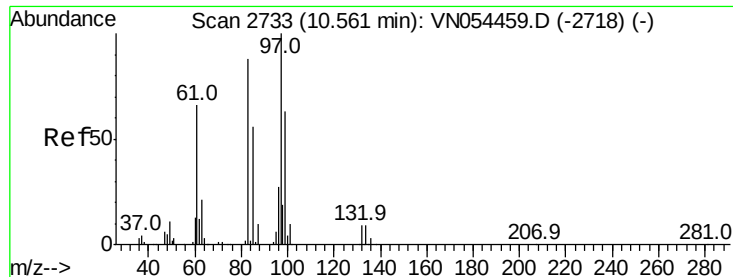
Ion Ratio Lower Upper

75 100

77 33.0 25.4 38.0

39 58.8 37.2 55.8#





#55

1,1,2-Trichloroethane

Concen: 21.976 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

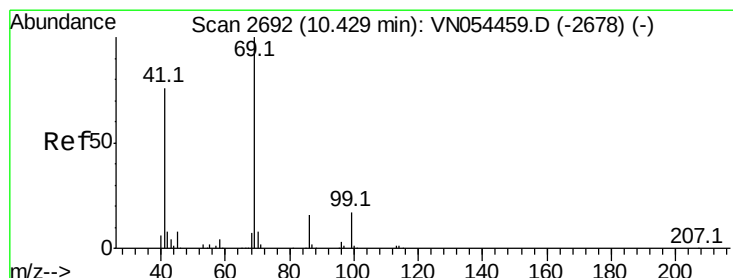
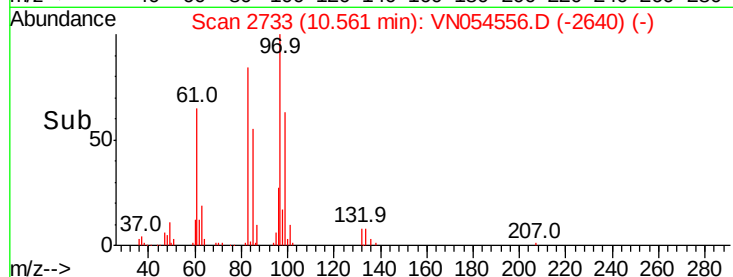
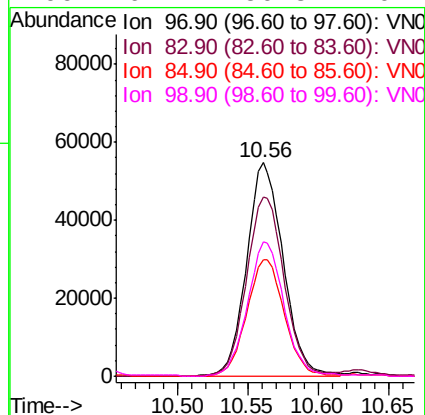
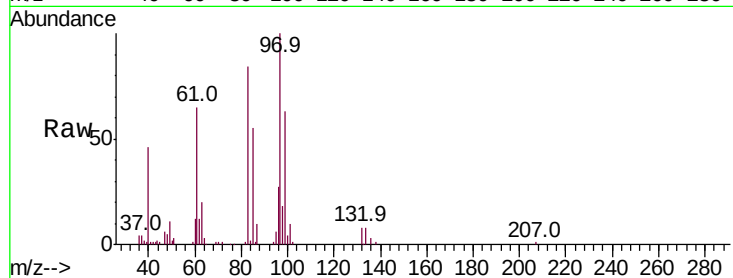
ClientSampleId :

VN0322WBS01

Tot Ion:	97	Resp:	99435
Ion	Ratio	Lower	Upper
97	100		
83	84.1	66.6	100.0
85	54.6	44.4	66.6
99	62.7	50.8	76.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 21.312 ug/l

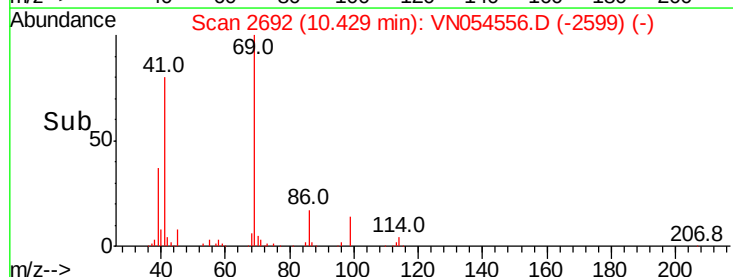
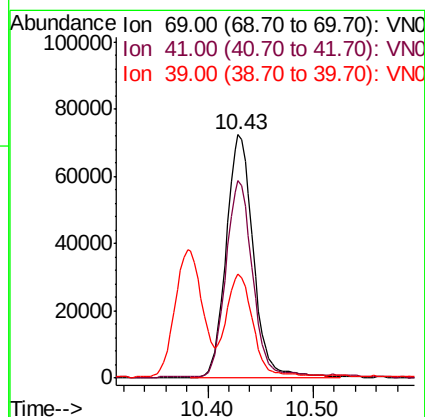
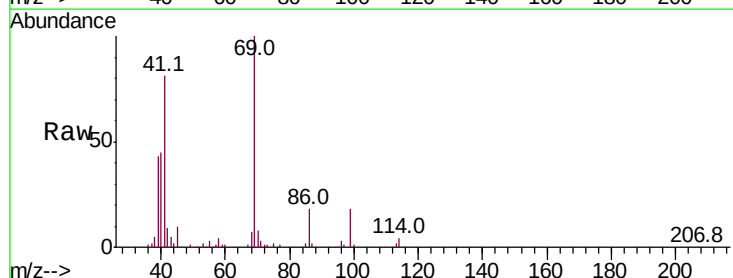
RT: 10.43 min Scan# 2692

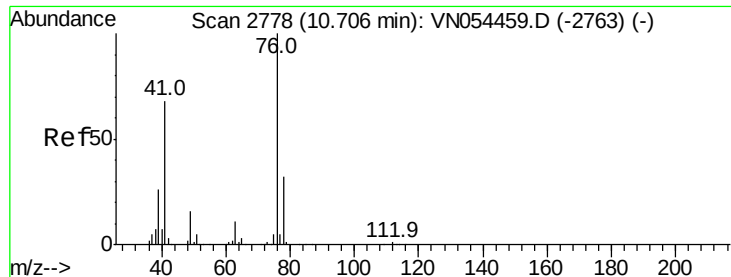
Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion:	69	Resp:	129431
Ion	Ratio	Lower	Upper
69	100		
41	78.7	49.4	74.2#
39	41.2	28.3	42.5





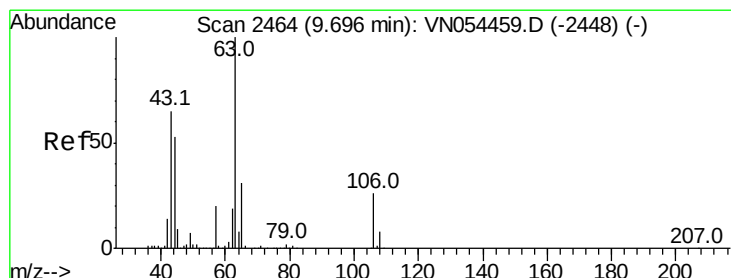
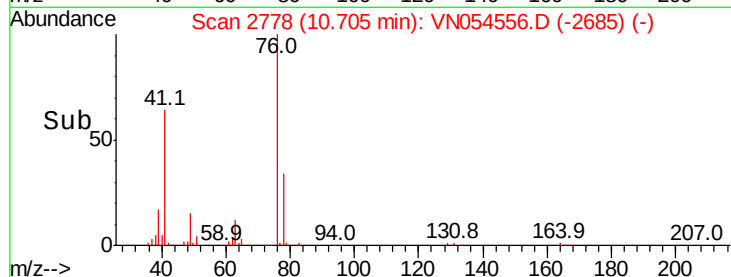
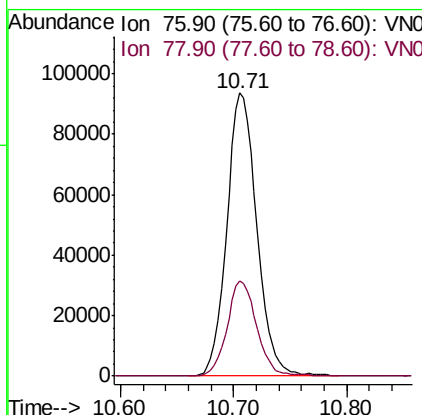
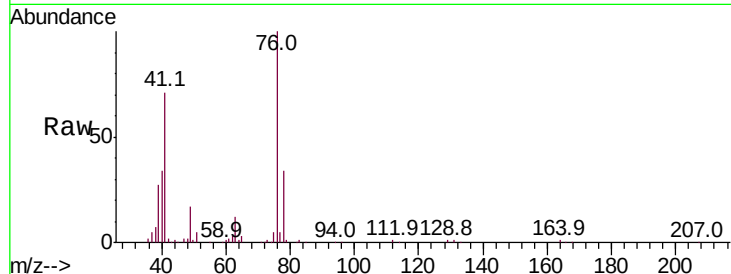
#57
 1,3-Dichloropropane
 Concen: 21.931 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Instrument :
 MSVOA_N
 ClientSampled :
 VN0322WBS01

Tot Ion: 76 Resp: 172499
 Ion Ratio Lower Upper
 76 100
 78 33.2 25.7 38.5

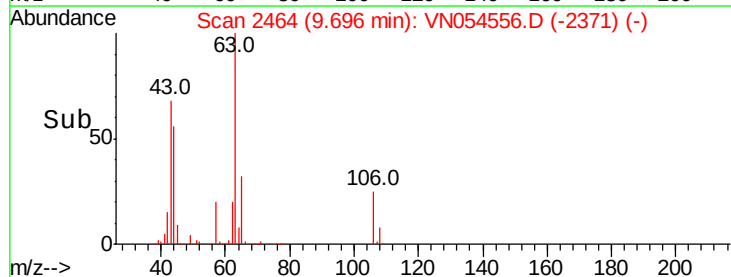
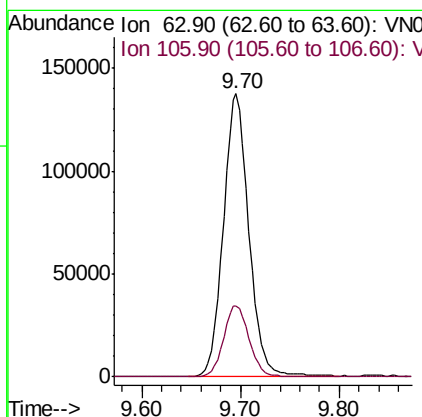
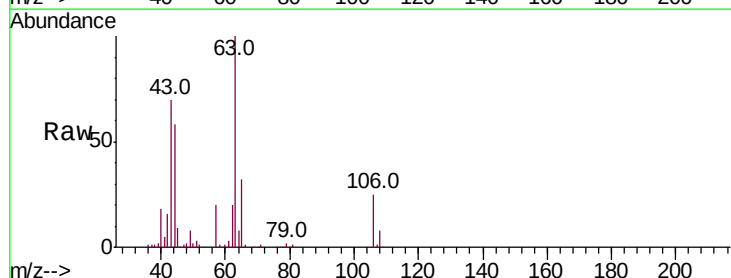
Manual Integrations
 APPROVED

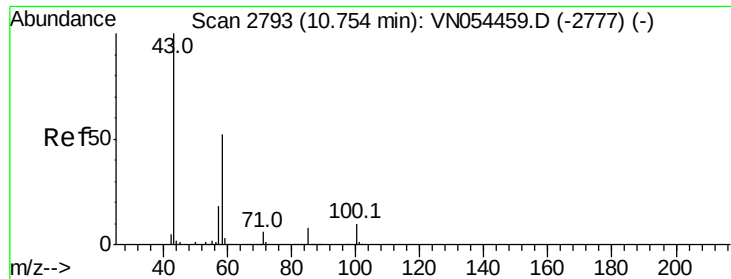
MMDadoda
 3/25/2019 3:11:12 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 99.964 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Tgt Ion: 63 Resp: 249992
 Ion Ratio Lower Upper
 63 100
 106 25.1 24.4 36.6





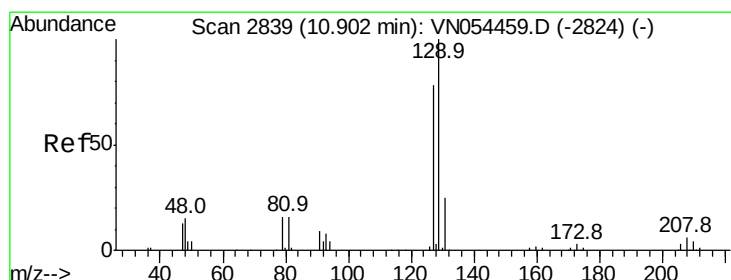
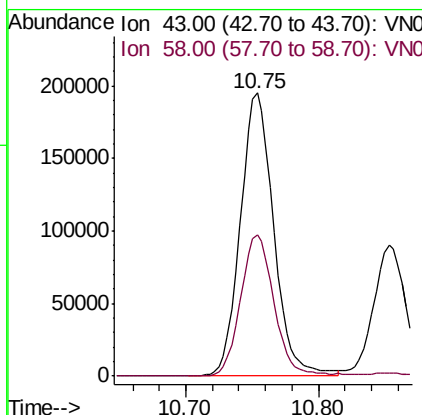
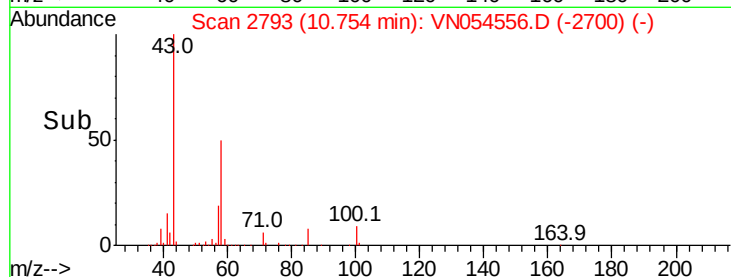
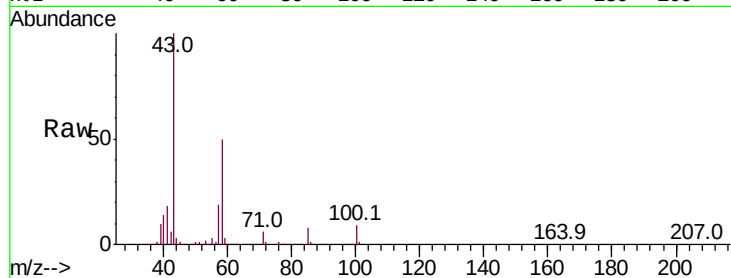
#59
2-Hexanone
Concen: 109.164 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion: 43 Resp: 339729
Ion Ratio Lower Upper
43 100
58 50.4 28.0 83.9

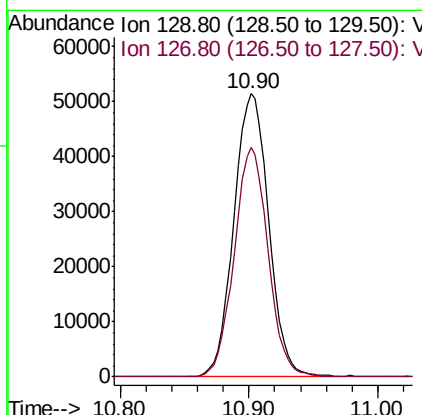
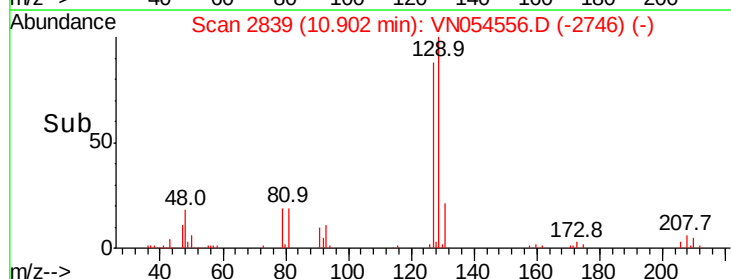
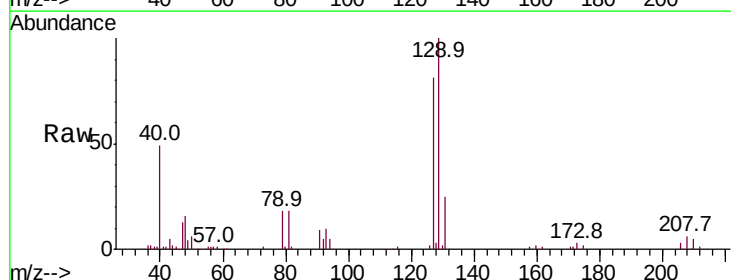
Manual Integrations
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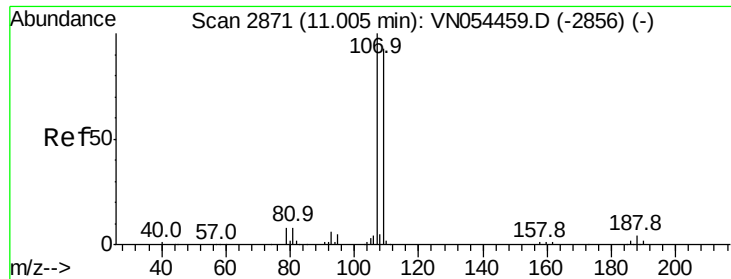
MMDadoda
3/25/2019 3:11:12 PM



#60
Dibromochloromethane
Concen: 20.068 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion: 129 Resp: 96626
Ion Ratio Lower Upper
129 100
127 78.7 38.6 115.8





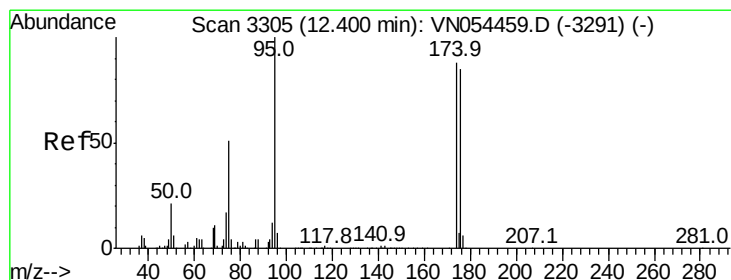
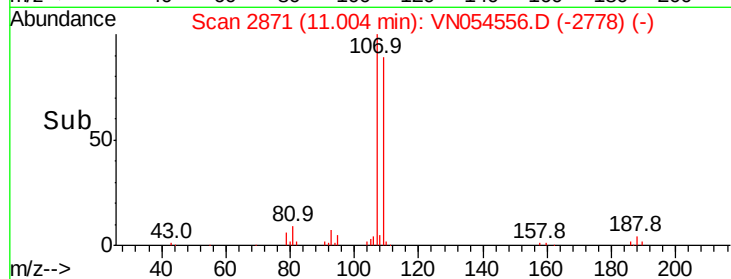
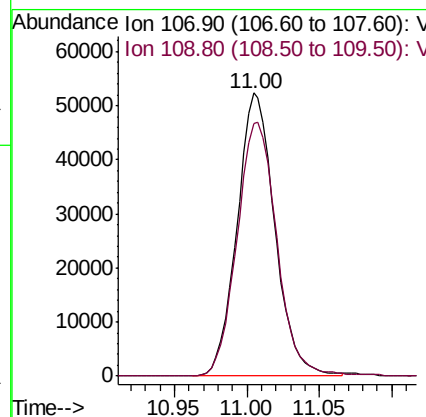
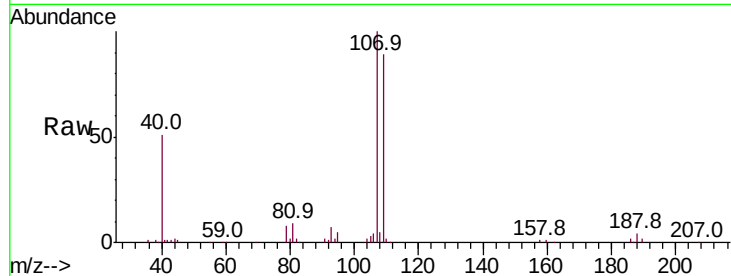
#61
 1,2-Dibromoethane
 Concen: 21.168 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322WBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	75.9	113.9

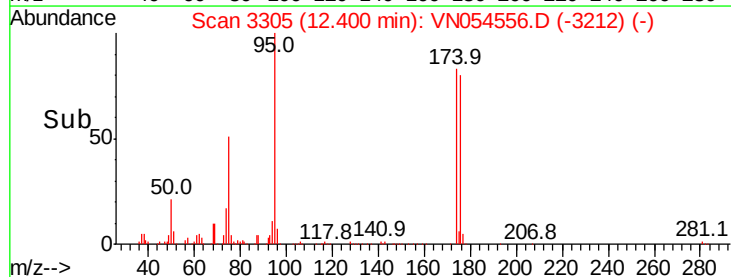
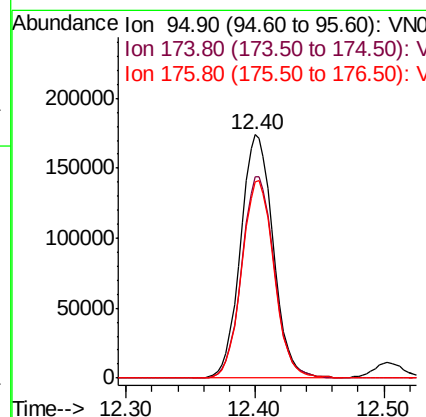
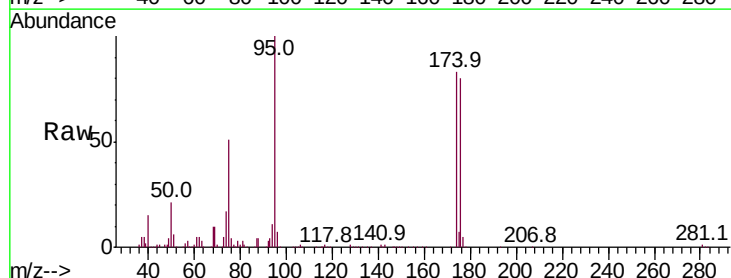
Manual Integrations
 APPROVED

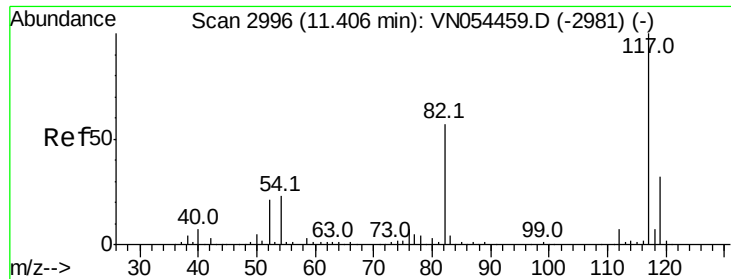
MMDadoda
 3/25/2019 3:11:12 PM



#62
 4-Bromofluorobenzene
 Concen: 48.564 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
95	100		
174	82.5	0.0	191.0
176	80.7	0.0	187.4





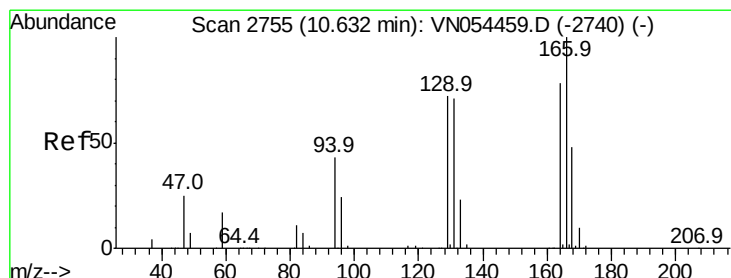
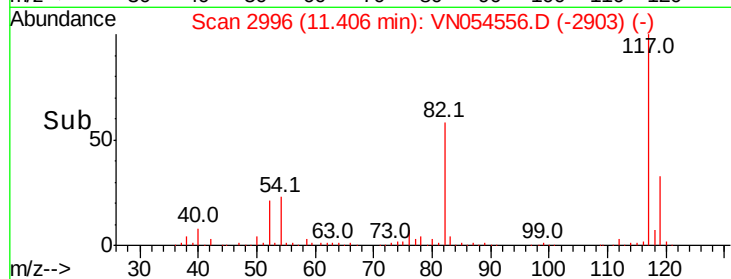
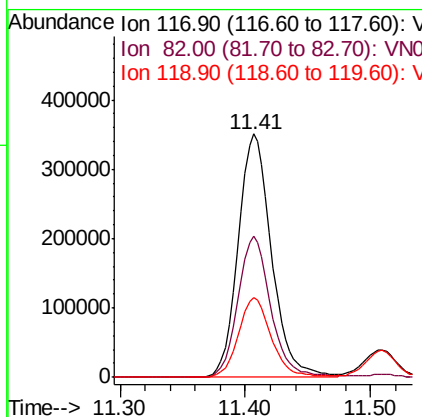
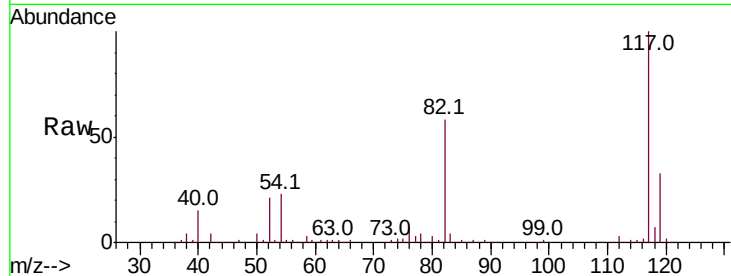
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.0	40.0	60.0
119	33.0	25.8	38.6

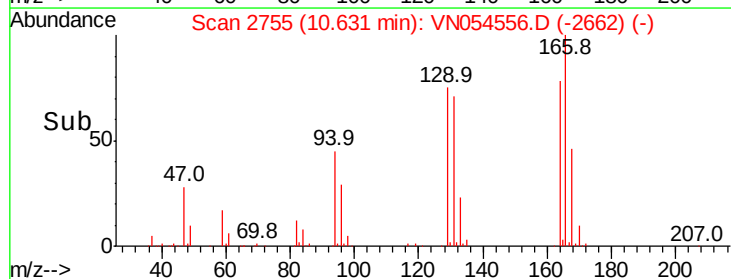
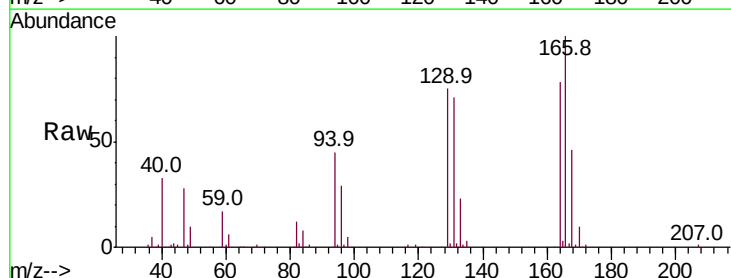
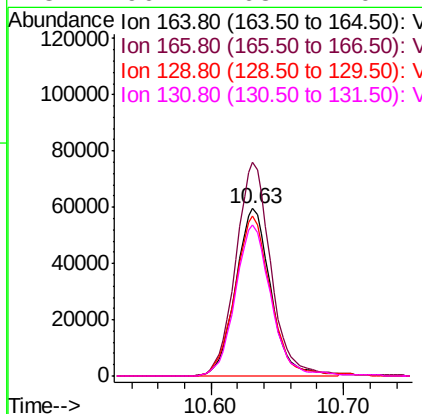
Manual Integrations
APPROVED

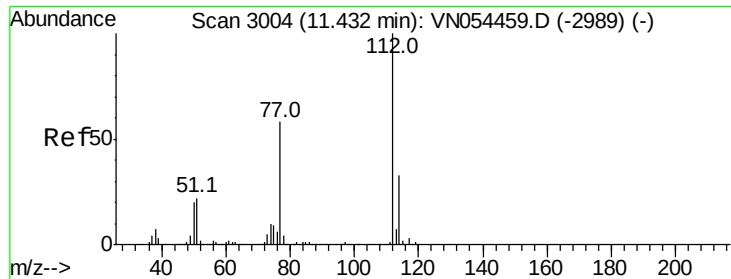
MMDadoda
3/25/2019 3:11:12 PM



#64
Tetrachloroethene
Concen: 20.424 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.6	103.9	155.9
129	95.3	71.1	106.7
131	90.4	68.2	102.4





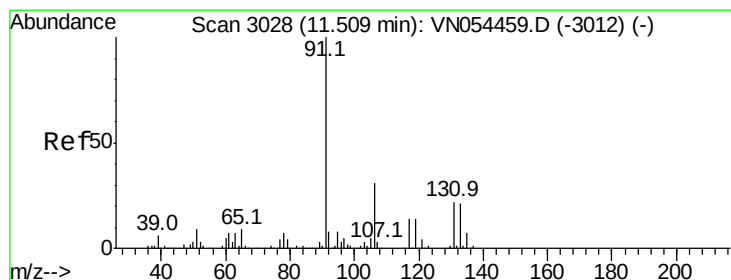
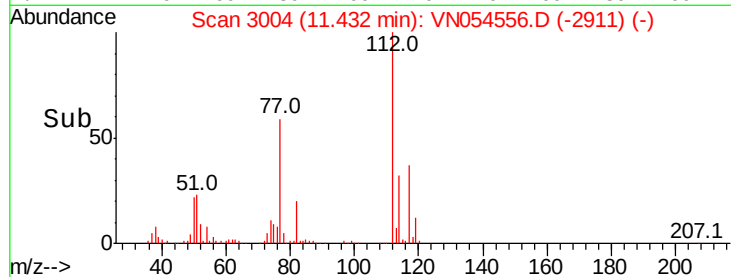
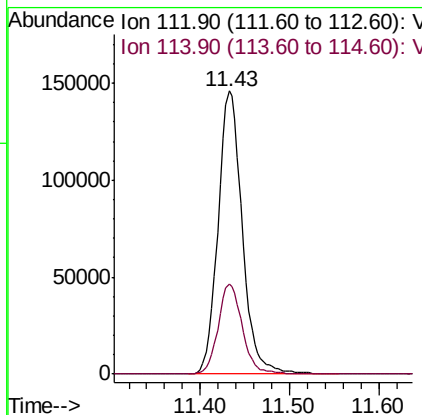
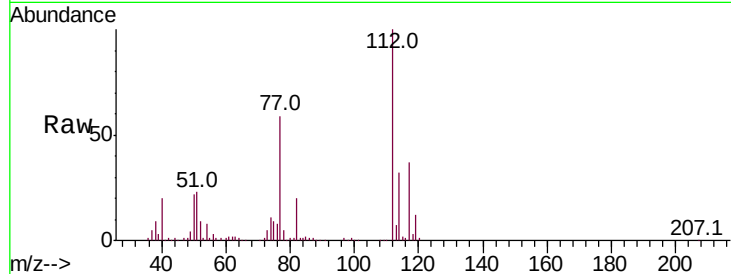
#65
Chlorobenzene
Concen: 20.816 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion:112 Resp: 274416
Ion Ratio Lower Upper
112 100
114 31.8 25.9 38.9

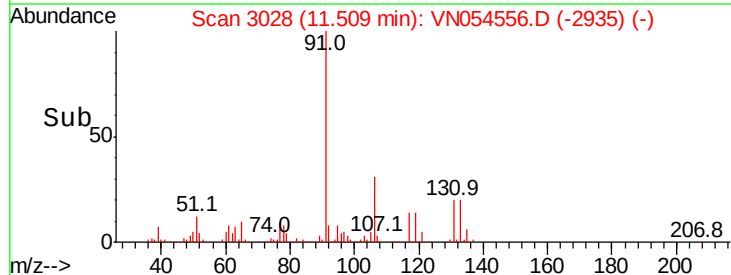
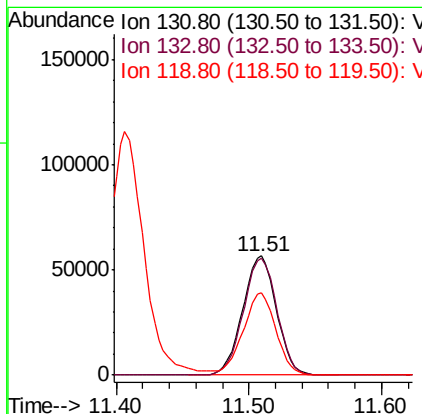
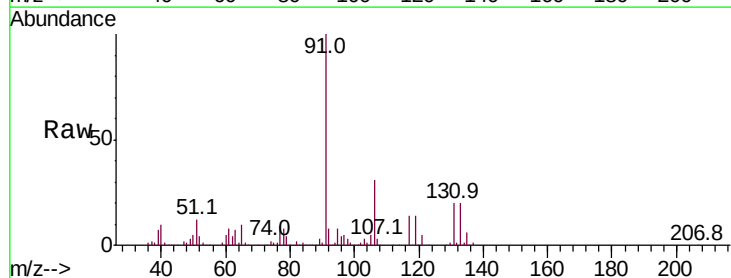
Manual Integrations
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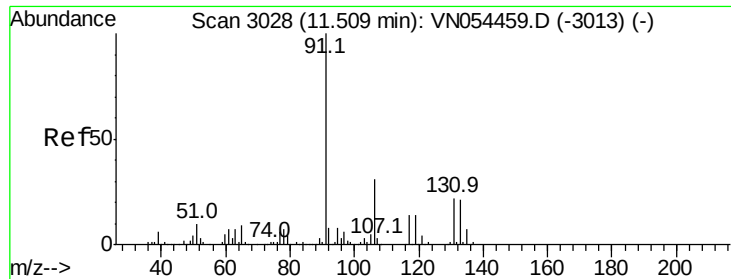
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.106 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion:131 Resp: 99866
Ion Ratio Lower Upper
131 100
133 98.1 47.6 142.9
119 67.8 32.4 97.0





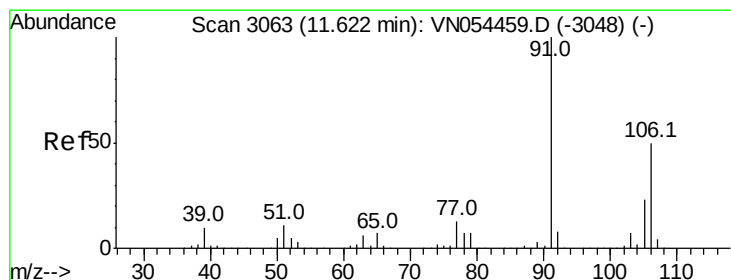
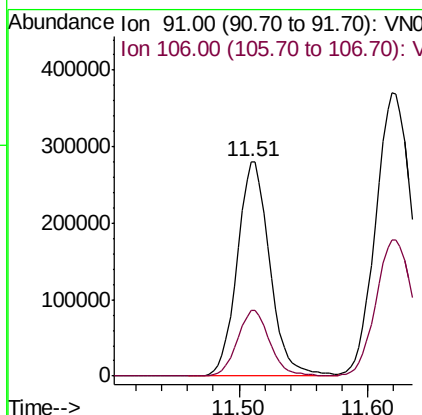
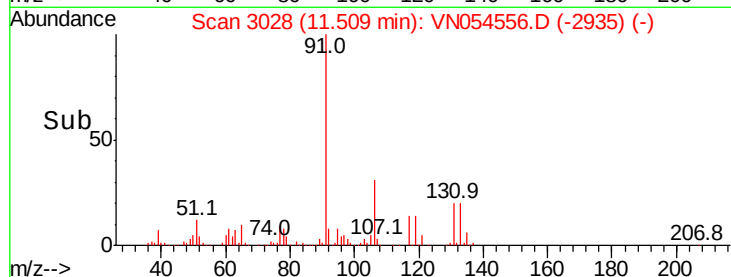
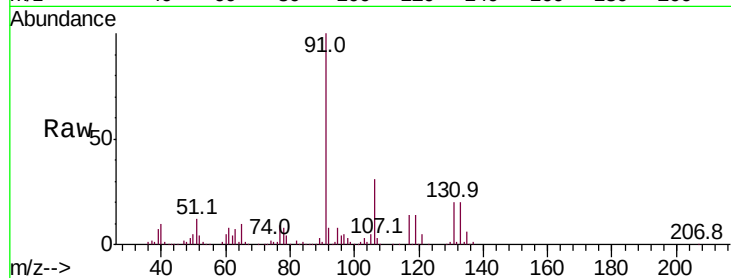
#67
Ethyl Benzene
Concen: 21.176 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion: 91 Resp: 493128
Ion Ratio Lower Upper
91 100
106 30.8 25.5 38.3

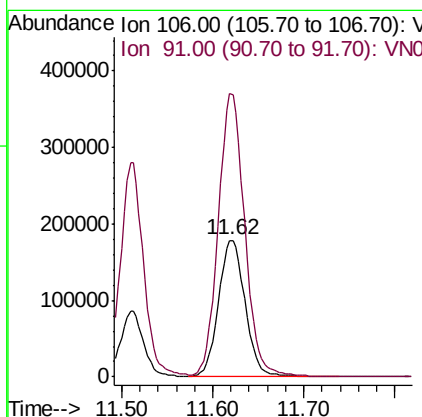
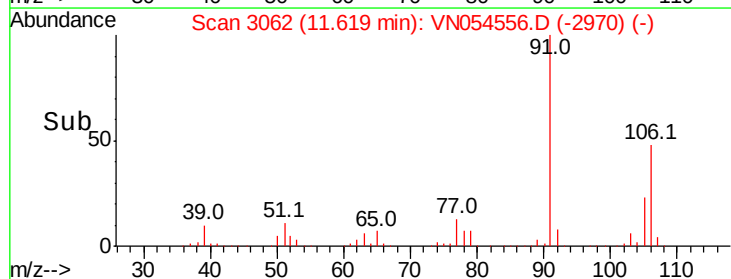
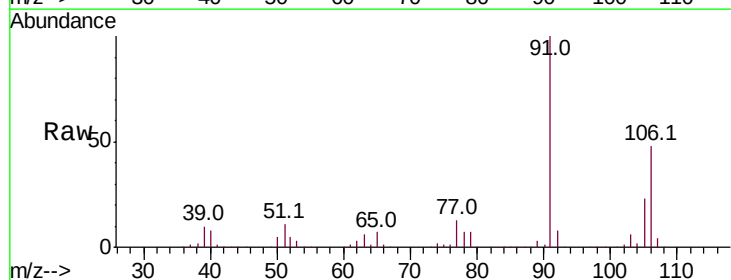
Manual Integrations
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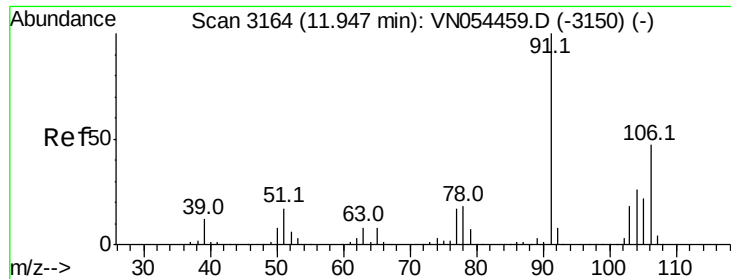
MMDadoda
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#68
m/p-Xylenes
Concen: 41.461 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion: 106 Resp: 365697
Ion Ratio Lower Upper
106 100
91 204.6 159.4 239.2





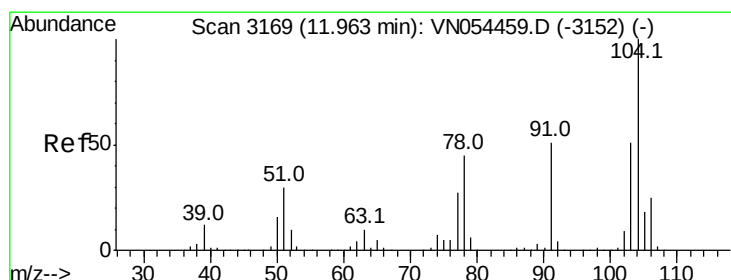
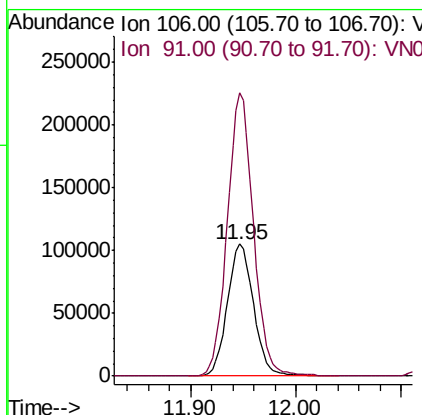
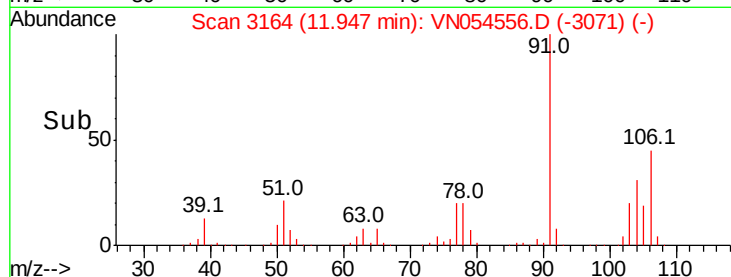
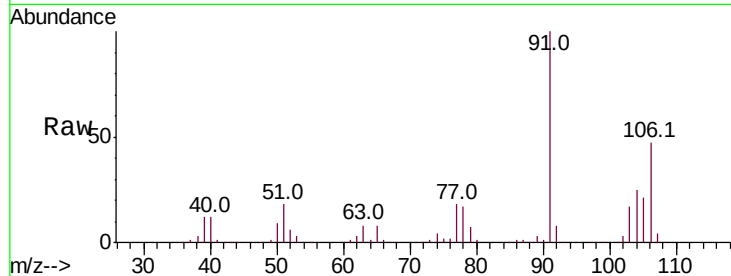
#69
o-Xylene
Concen: 21.028 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion:106 Resp: 181135
Ion Ratio Lower Upper
106 100
91 213.1 105.7 317.1

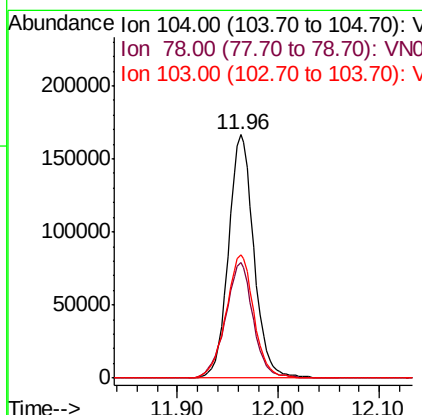
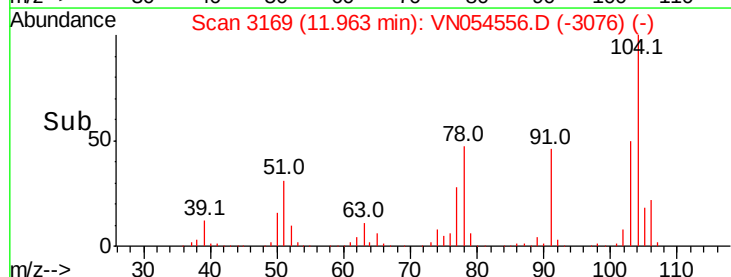
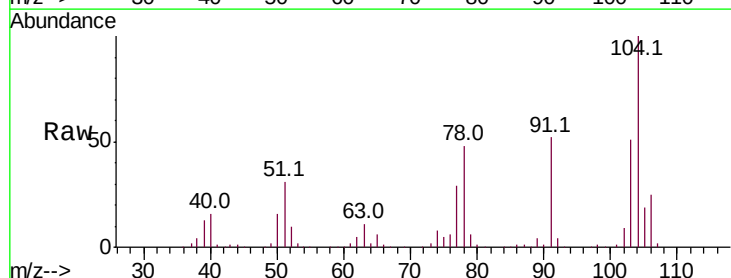
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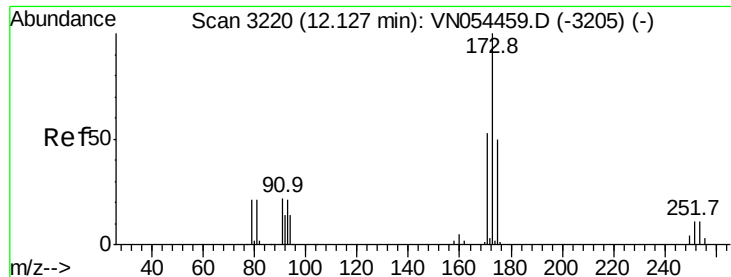
MMDadoda
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#70
Styrene
Concen: 20.892 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion:104 Resp: 292244
Ion Ratio Lower Upper
104 100
78 51.8 38.2 57.2
103 55.7 44.4 66.6





#71

Bromoform

Concen: 18.492 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion:173 Resp: 55548

Ion Ratio Lower Upper

173 100

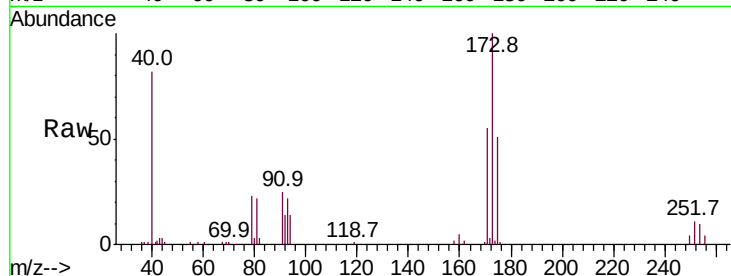
175 47.9 24.4 73.2

254 0.0 0.1 0.1#

Manual Integrations
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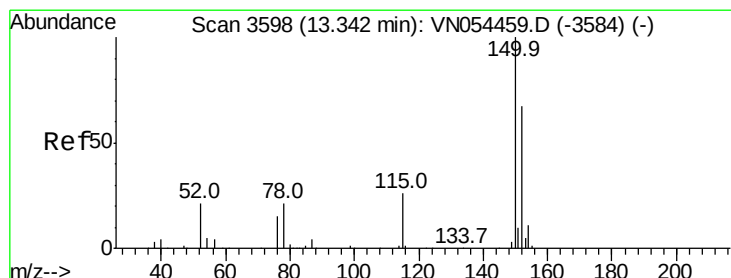
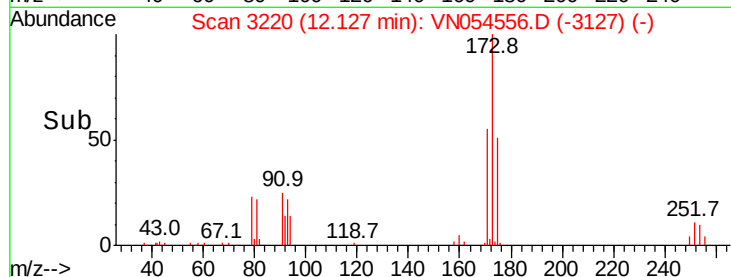
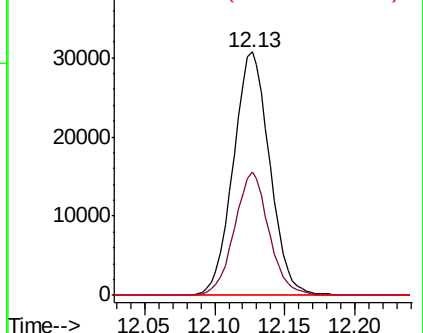
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Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

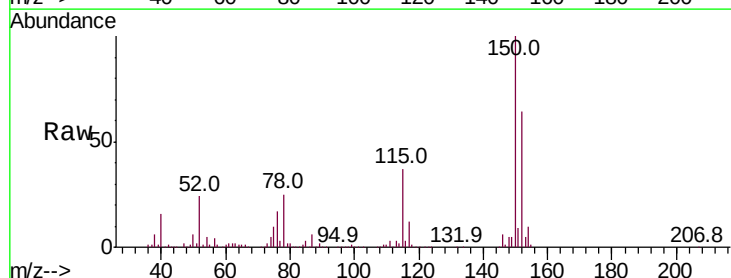
Tgt Ion:152 Resp: 270192

Ion Ratio Lower Upper

152 100

115 58.2 27.2 81.6

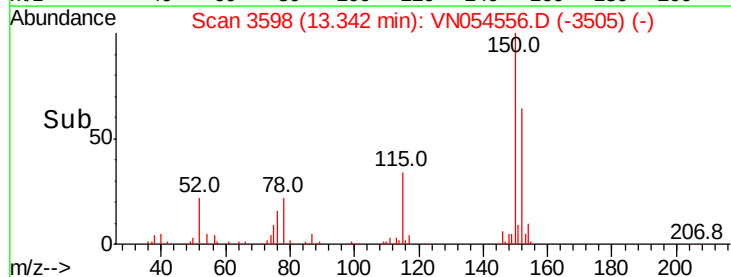
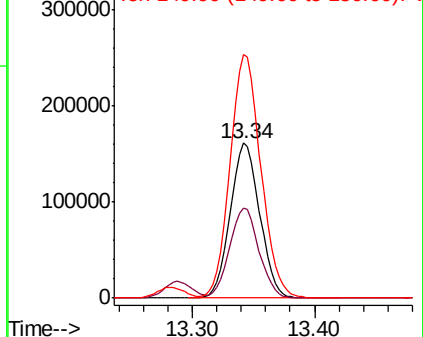
150 164.8 0.0 349.2

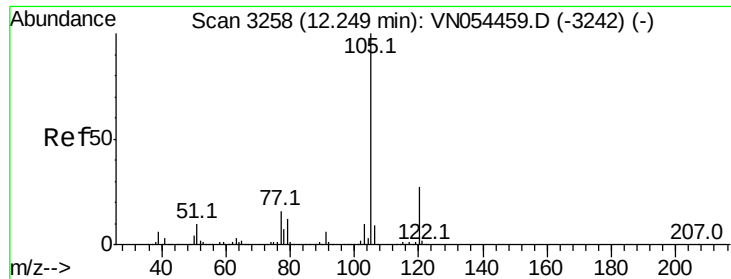


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





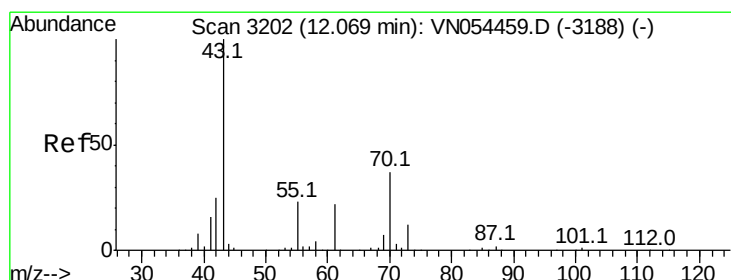
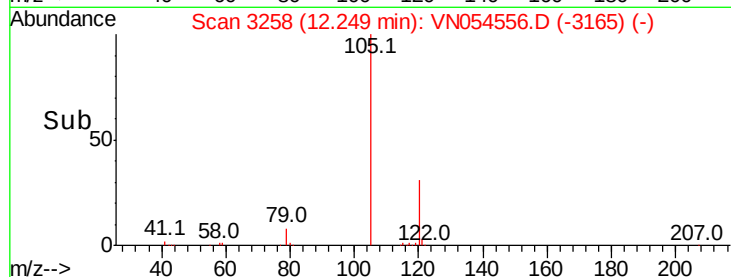
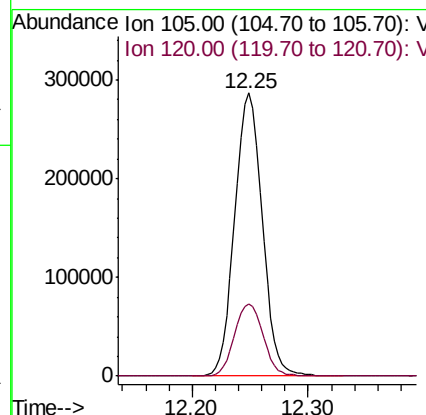
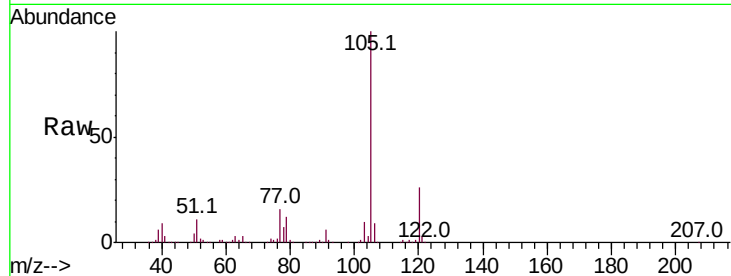
#73
Isopropylbenzene
Concen: 21.738 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.8	41.3

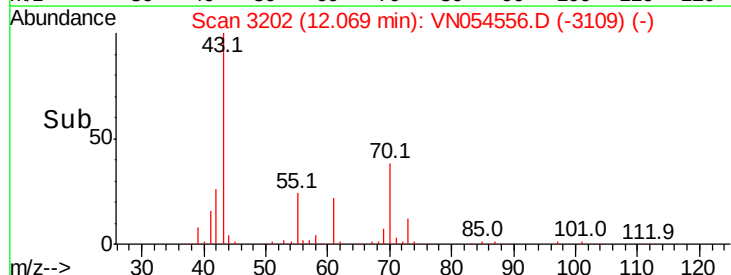
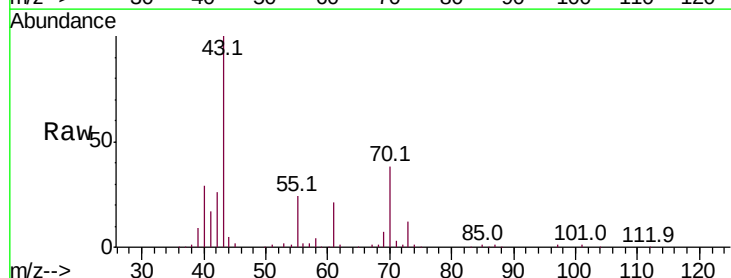
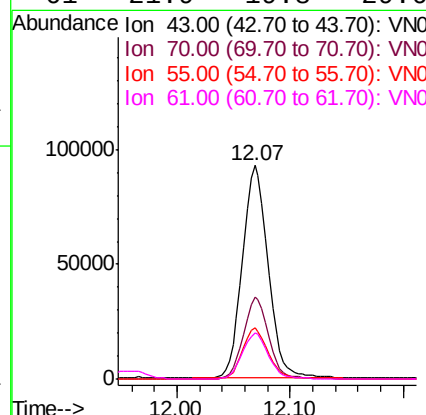
Manual Integrations
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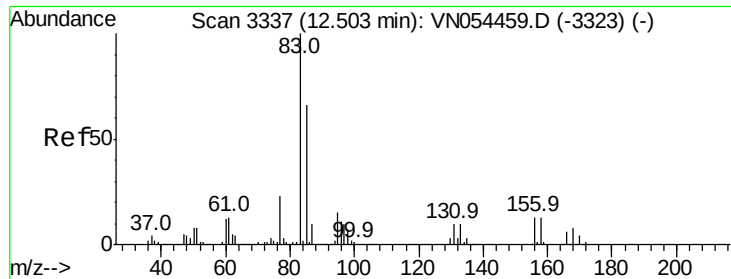
MMDadoda
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#74
N-ethyl acetate
Concen: 23.714 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
43	100		
70	37.7	35.4	53.0
55	23.6	19.8	29.6
61	21.9	19.8	29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 23.079 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

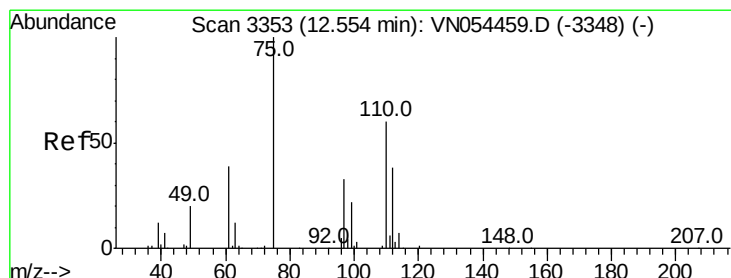
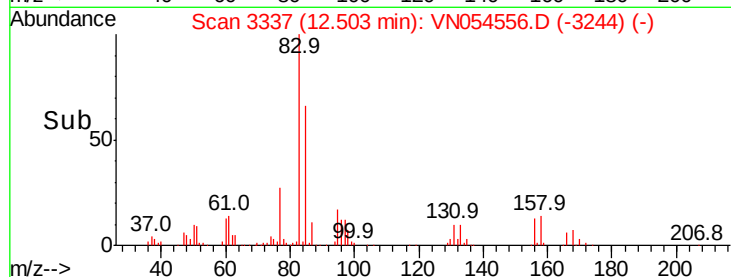
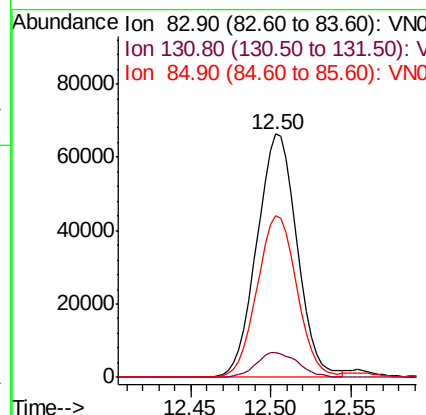
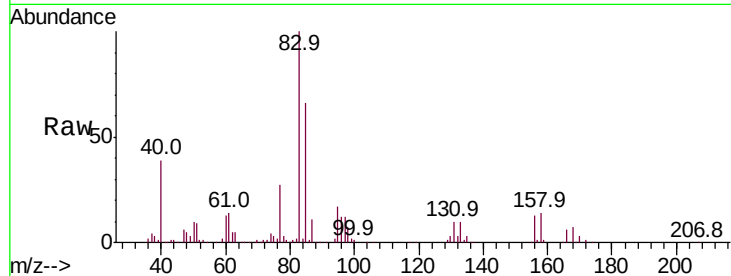
ClientSampleId :

VN0322WBS01

Tot Ion:	83	Resp:	114706
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.8	17.4
85	65.7	32.2	96.6

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.786 ug/l m

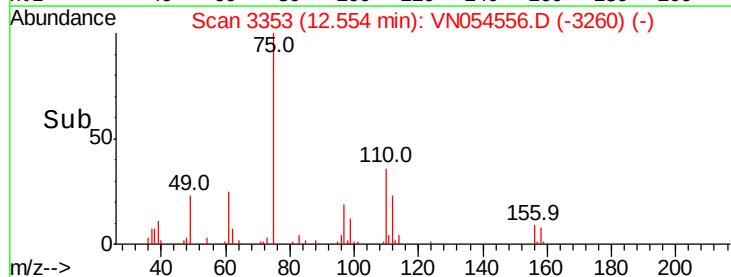
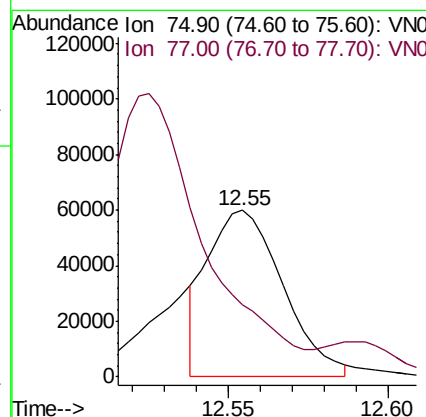
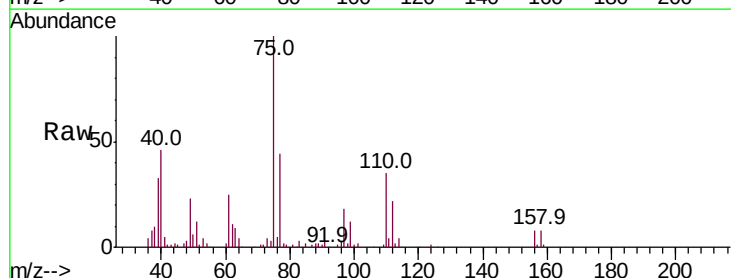
RT: 12.55 min Scan# 3353

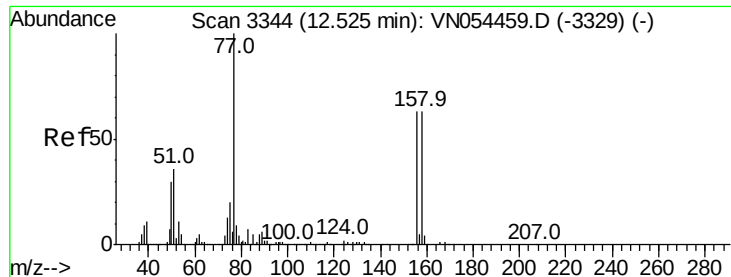
Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion:	75	Resp:	97694
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 21.215 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

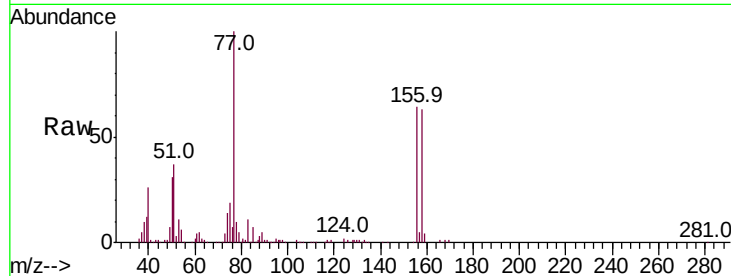
ClientSampled :

VN0322WBS01

Tot Ion:	156	Resp:	114560
Ion Ratio	Lower	Upper	
156	100		
77	192.7	81.5	244.4
158	99.1	49.0	147.2

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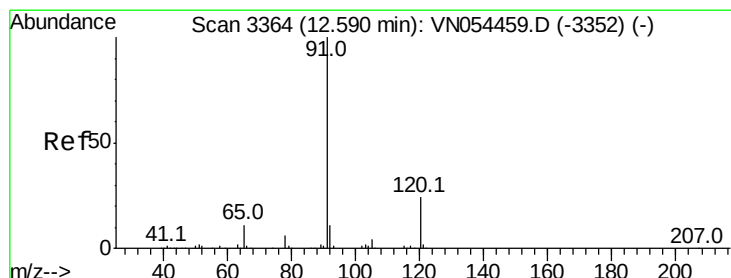
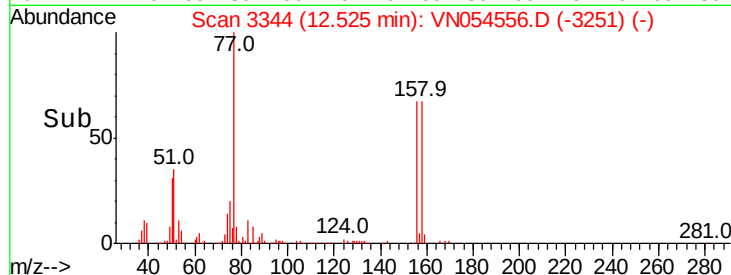
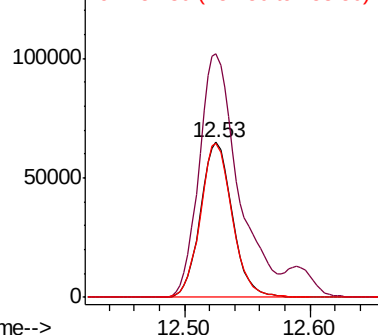
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.576 ug/l

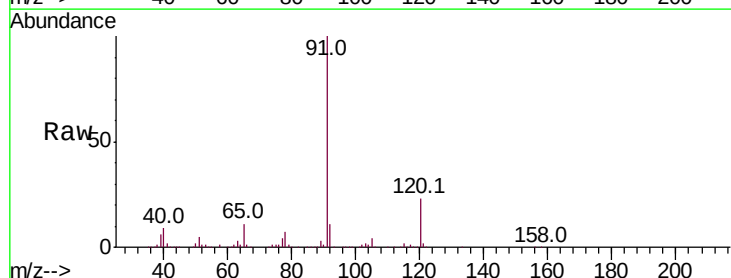
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054556.D

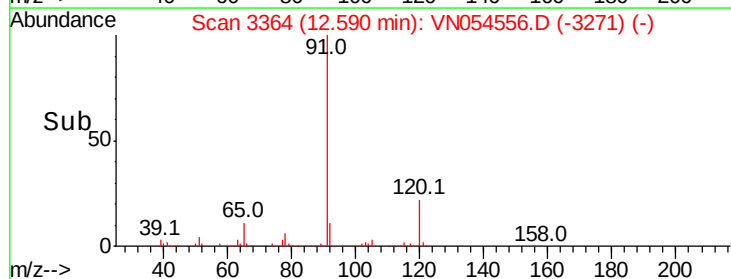
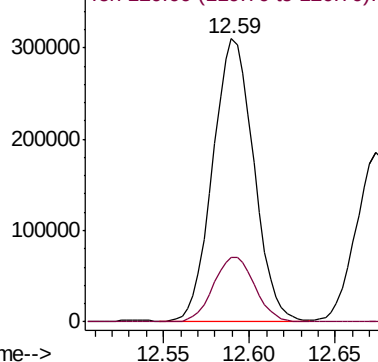
Acq: 22 Mar 2019 14:25

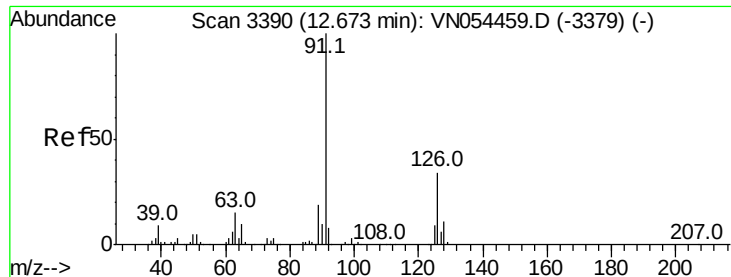
Tgt Ion:	91	Resp:	509392
Ion Ratio	Lower	Upper	
91	100		
120	23.2	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 21.476 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion: 91 Resp: 316188

Ion Ratio Lower Upper

91 100

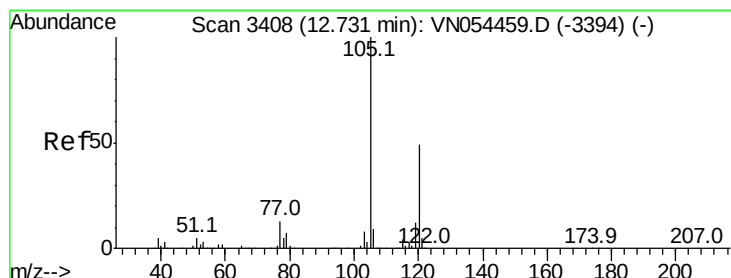
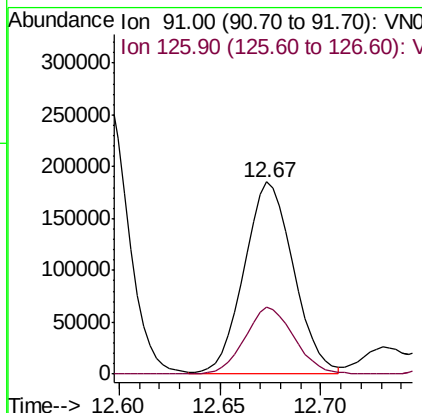
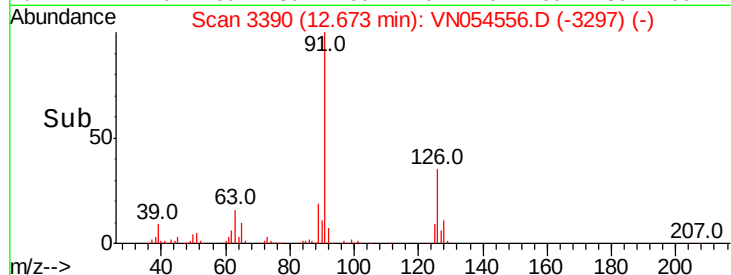
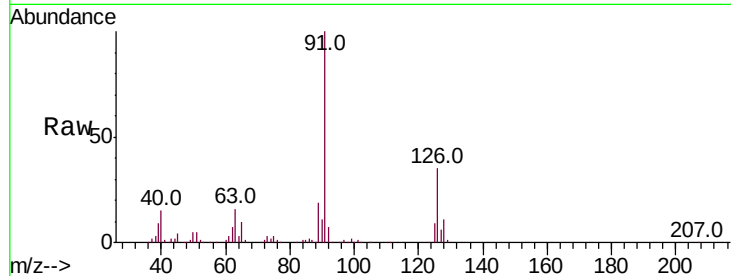
126 34.8 18.7 56.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.230 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054556.D

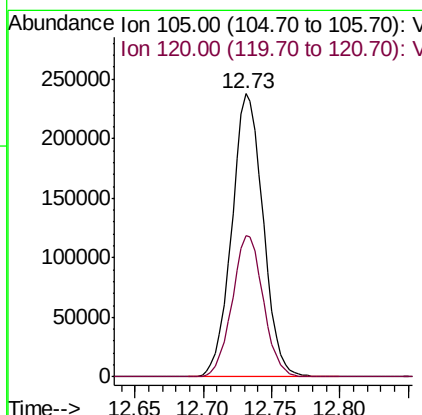
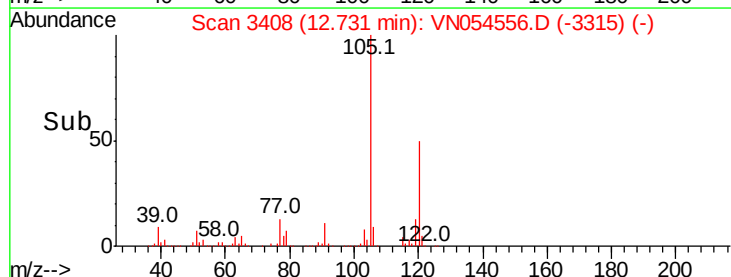
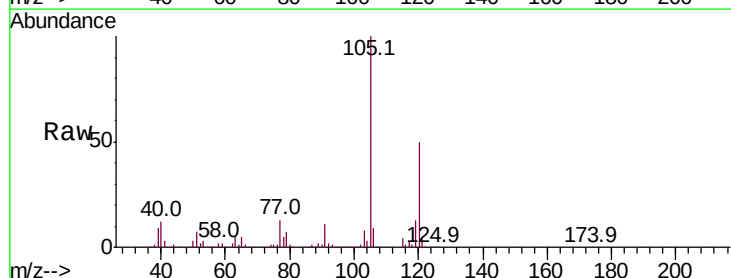
Acq: 22 Mar 2019 14:25

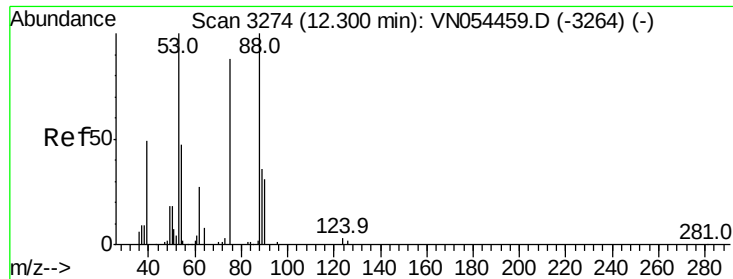
Tgt Ion: 105 Resp: 378832

Ion Ratio Lower Upper

105 100

120 49.5 25.0 75.0





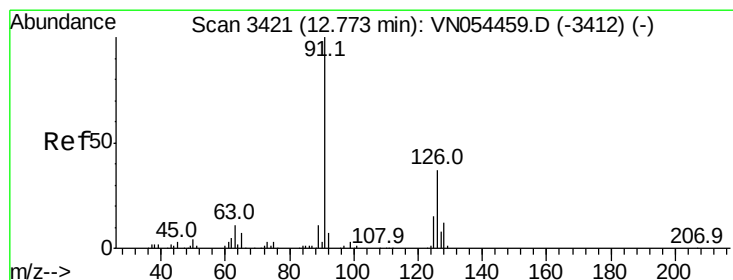
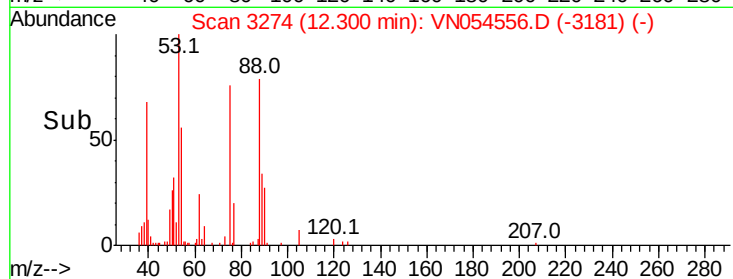
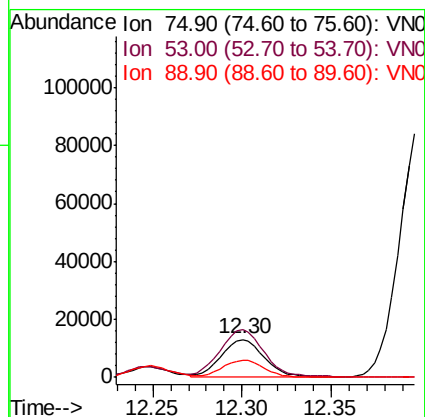
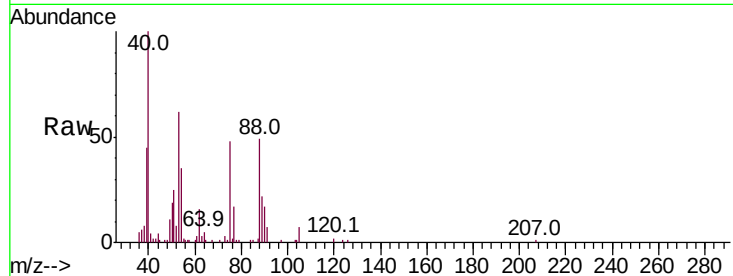
#81
trans-1,4-Dichloro-2-butene
Concen: 19.683 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion: 75 Resp: 21926
Ion Ratio Lower Upper
75 100
53 131.0 76.2 114.2#
89 44.1 39.2 58.8

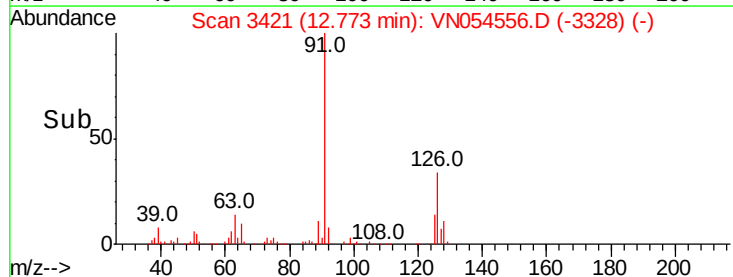
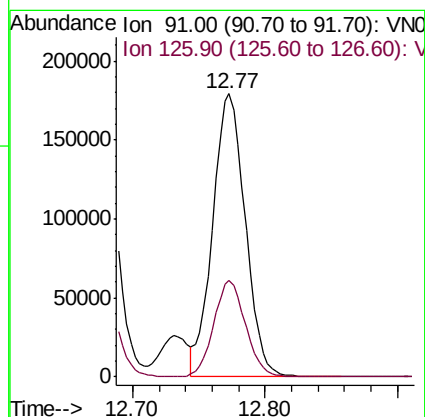
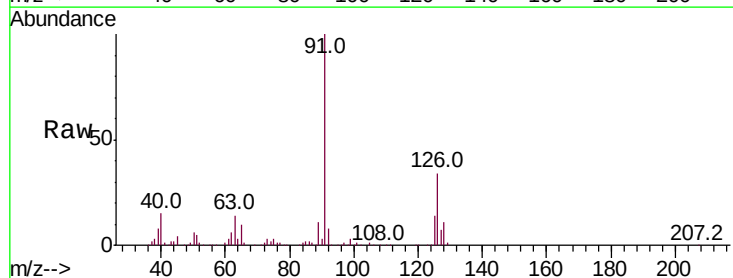
Manual Integrations
APPROVED

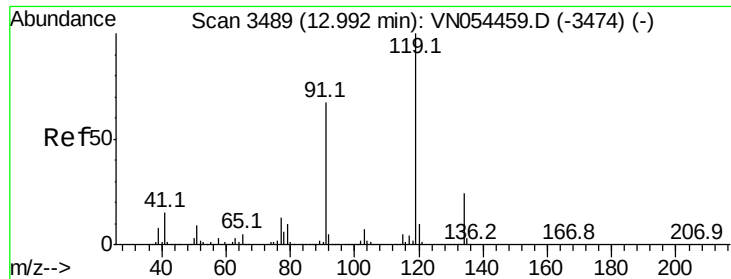
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#82
4-Chlorotoluene
Concen: 21.434 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion: 91 Resp: 305882
Ion Ratio Lower Upper
91 100
126 33.3 18.1 54.1





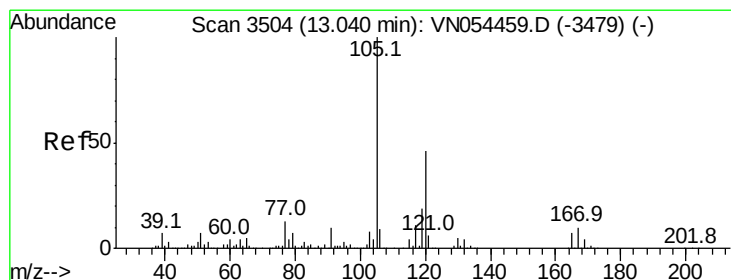
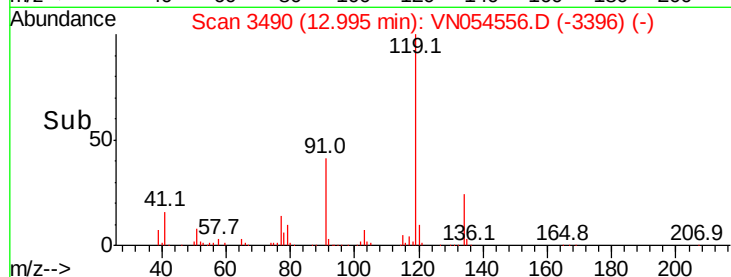
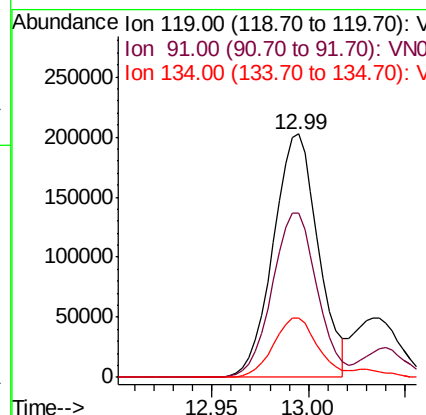
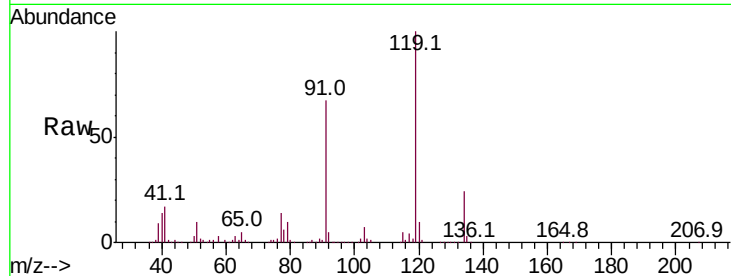
#83
 tert-Butylbenzene
 Concen: 21.122 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322WBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	67.6	30.9	92.8
134	24.3	13.2	39.6

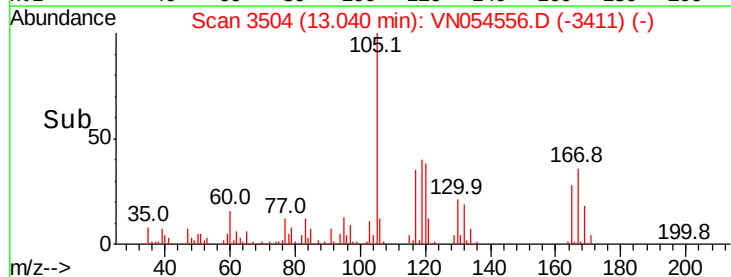
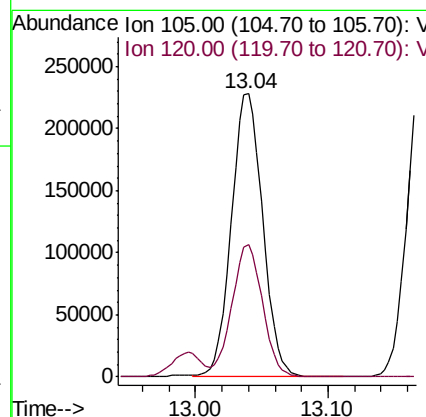
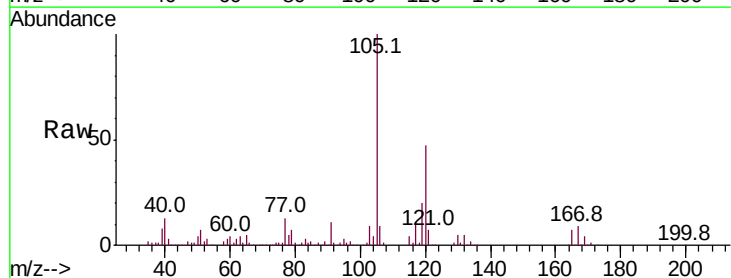
Manual Integrations
 APPROVED

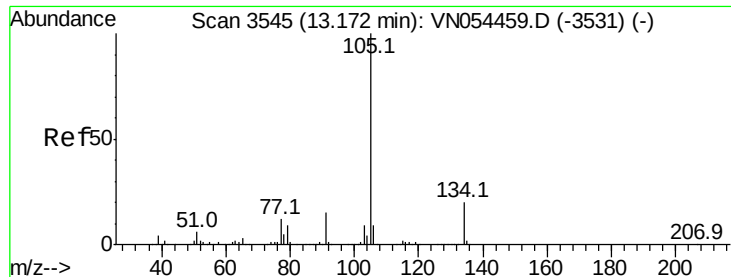
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.299 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.4	70.3





#85

sec-Butylbenzene

Concen: 21.216 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

VN0322WBS01

Tot Ion:105 Resp: 410798

Ion Ratio Lower Upper

105 100

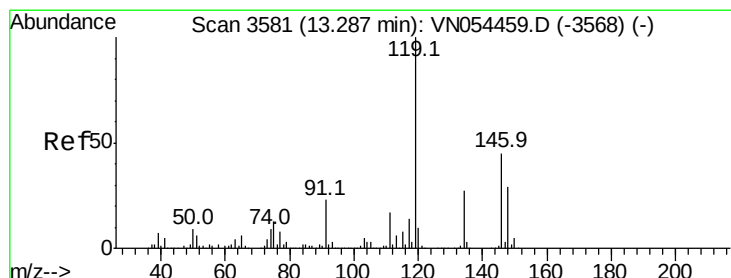
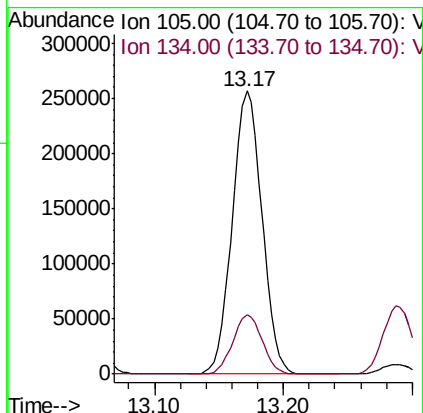
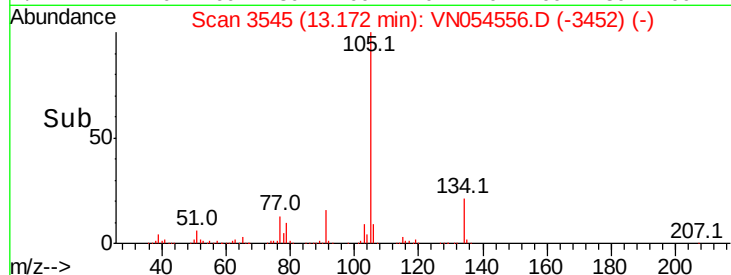
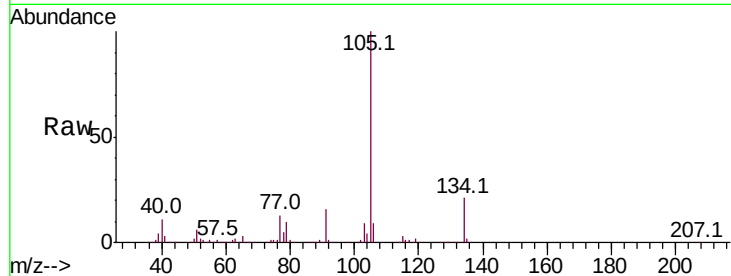
134 20.7 10.7 32.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 21.209 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

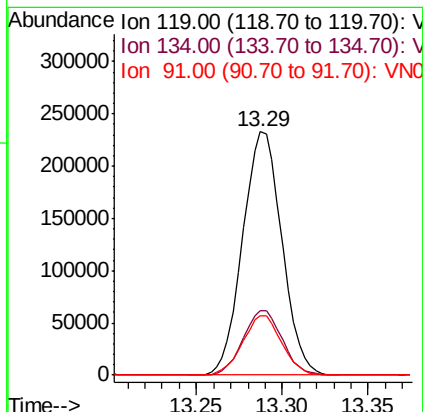
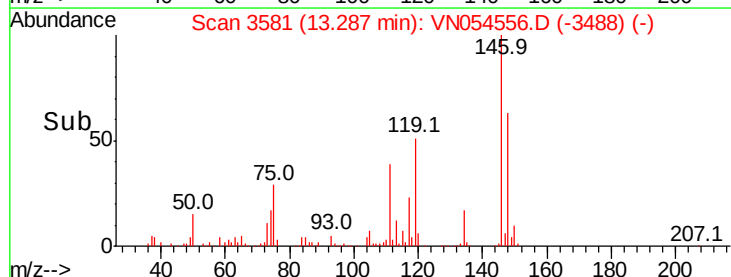
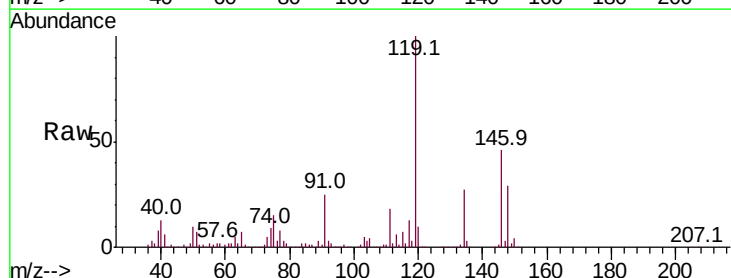
Tgt Ion:119 Resp: 367410

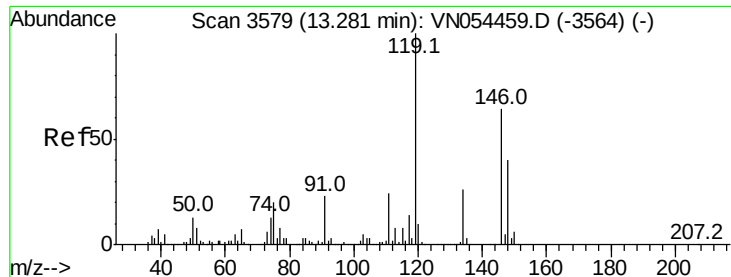
Ion Ratio Lower Upper

119 100

134 26.6 13.6 40.8

91 24.2 11.1 33.3





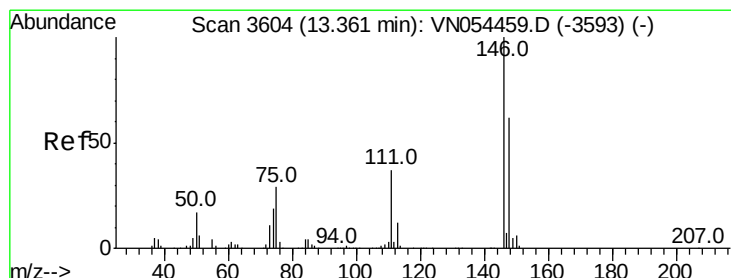
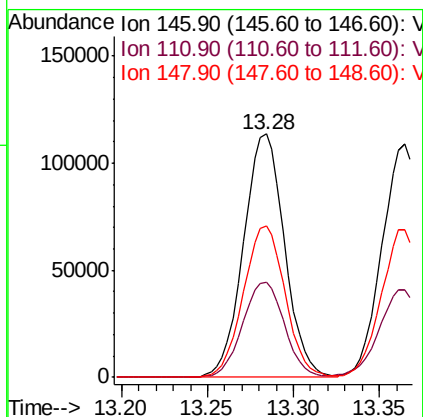
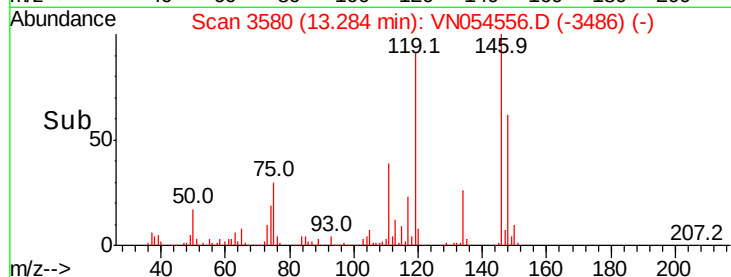
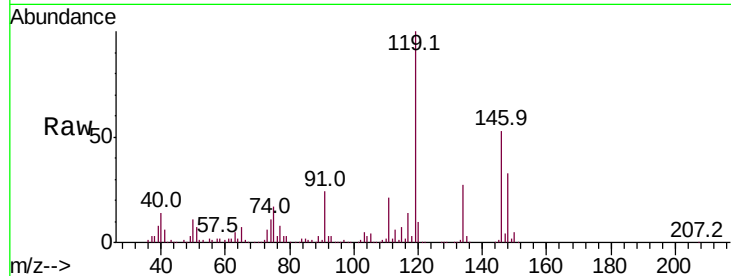
#87
 1,3-Dichlorobenzene
 Concen: 21.003 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	18.8	56.3
148	63.4	32.2	96.6

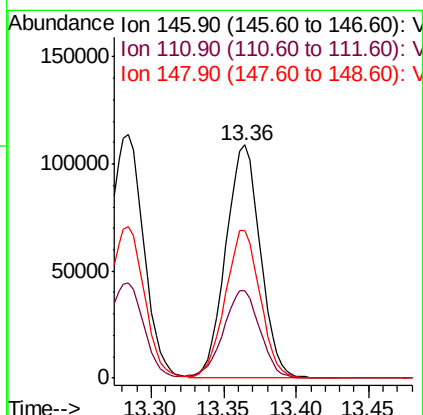
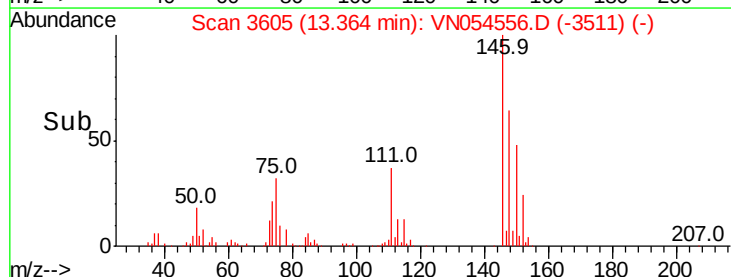
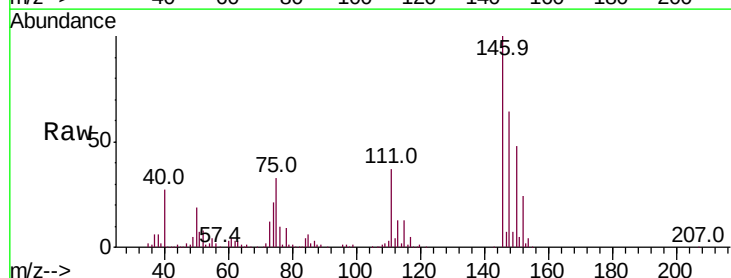
Manual Integrations
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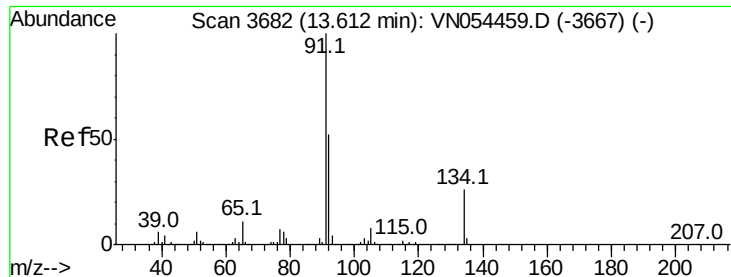
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 3/25/2019 3:11:12 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.651 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	18.1	54.1
148	64.0	32.0	96.0





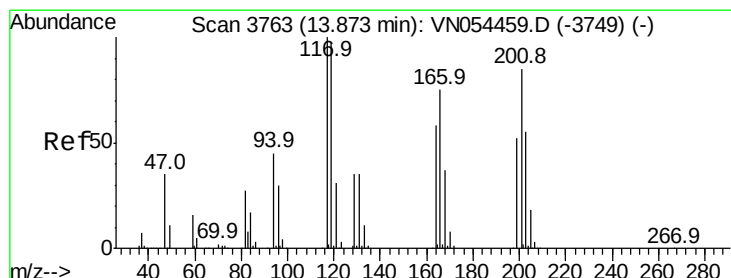
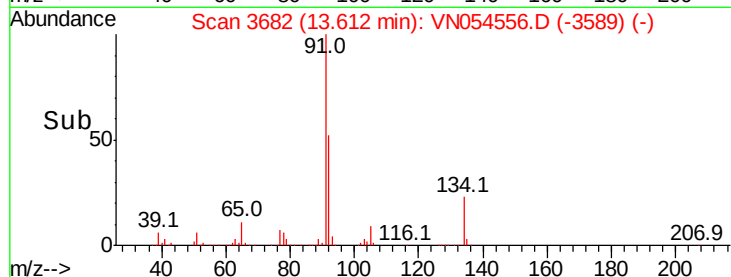
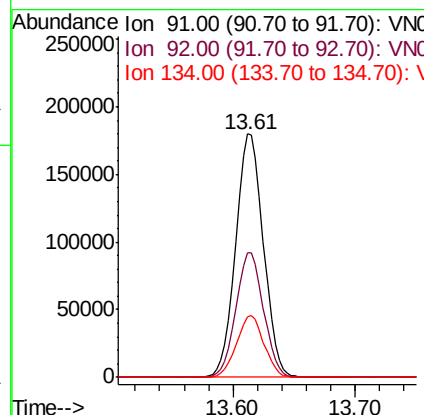
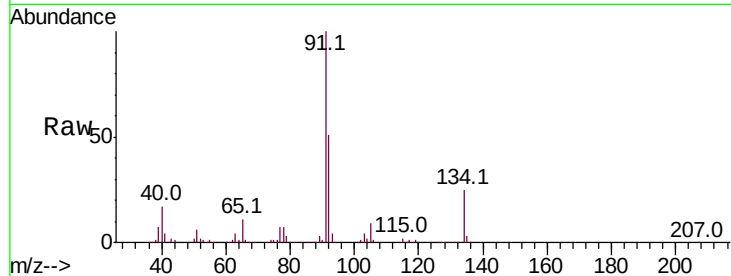
#89
n-Butylbenzene
Concen: 21.047 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Instrument :
MSVOA_N
ClientSampleId :
VN0322WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.0	26.2	78.6
134	25.2	14.3	42.9

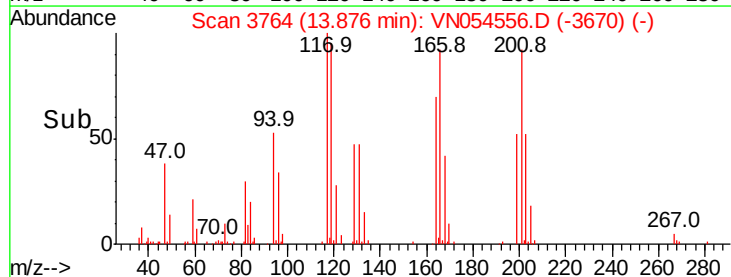
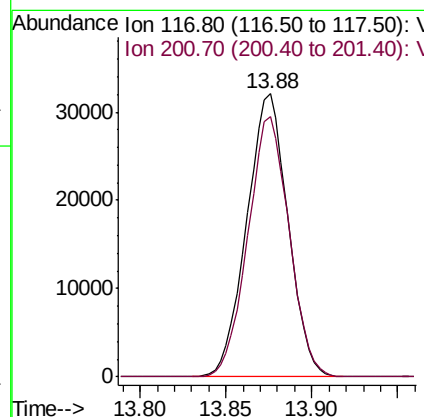
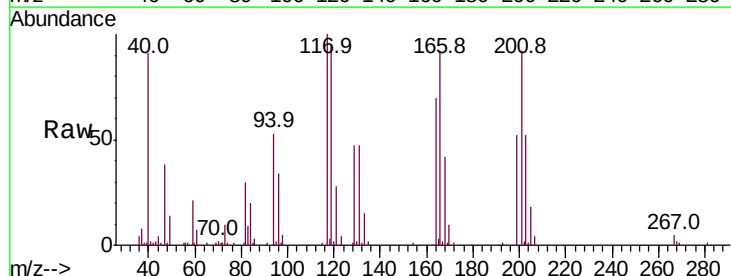
Manual Integrations
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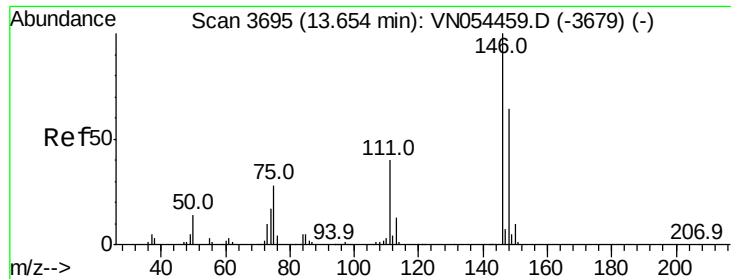
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#90
Hexachloroethane
Concen: 19.895 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054556.D
Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.5	48.1	144.4





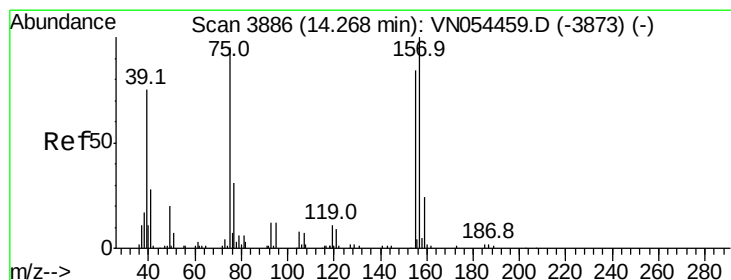
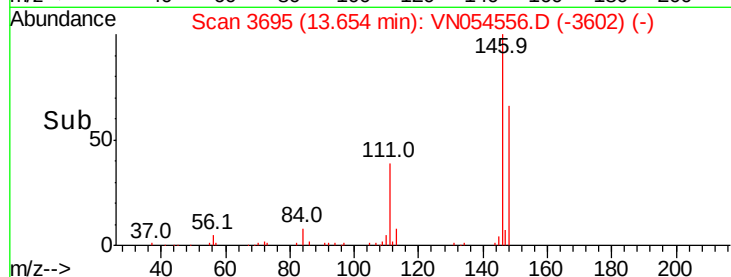
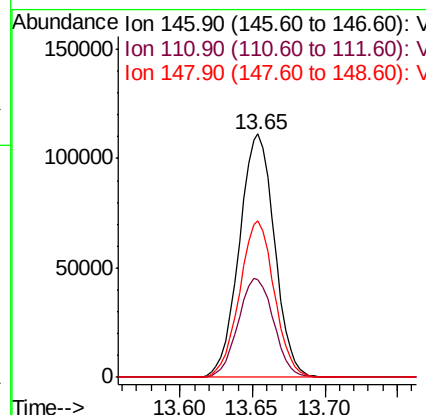
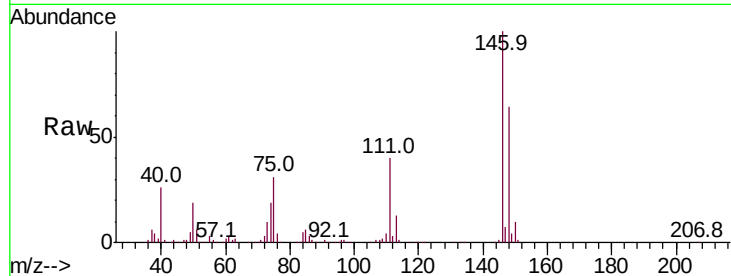
#91
 1,2-Dichlorobenzene
 Concen: 21.671 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0322WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.1	57.3
148	63.4	32.4	97.0

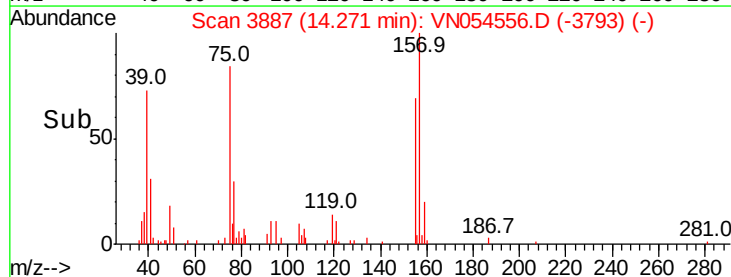
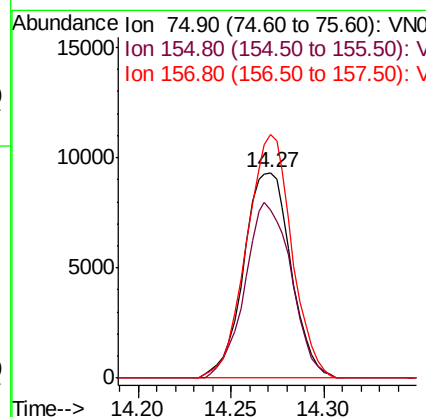
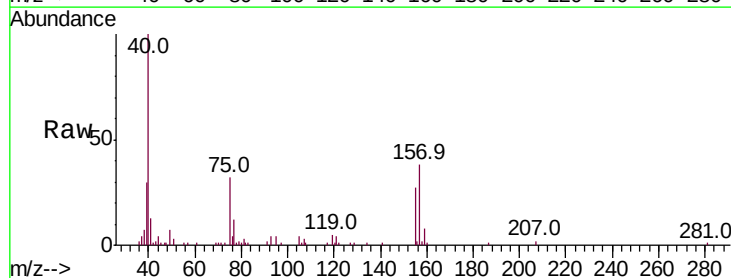
Manual Integrations
 APPROVED

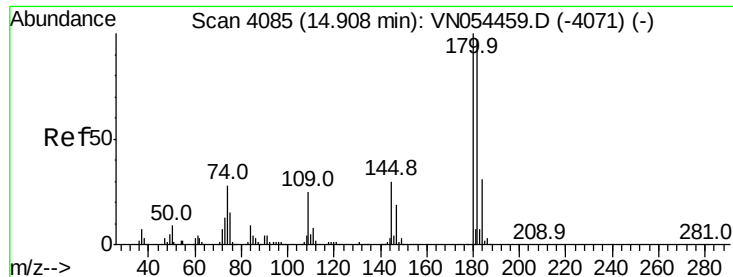
MMDadoda
 3/25/2019 3:11:12 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.643 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN054556.D
 Acq: 22 Mar 2019 14:25

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.0	50.1	150.3
157	113.5	63.1	189.3





#93

1,2,4-Trichlorobenzene

Concen: 20.322 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

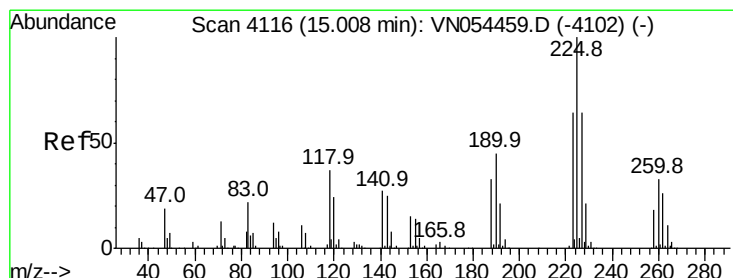
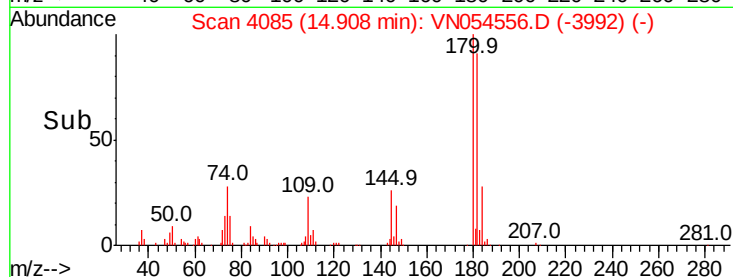
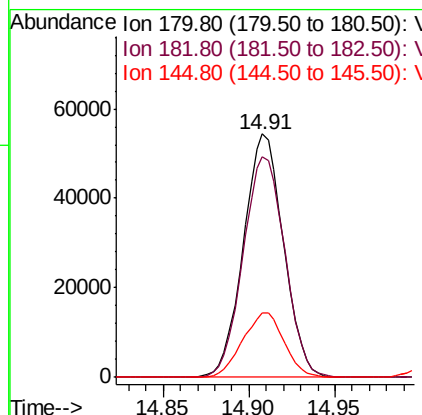
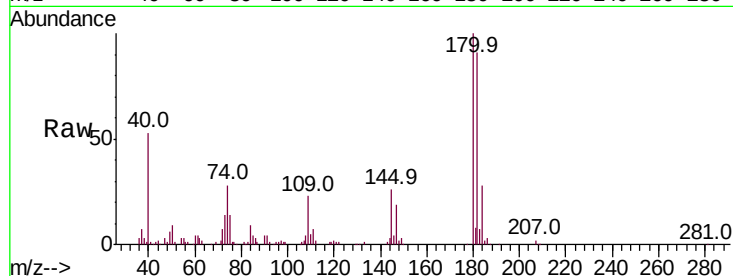
ClientSampleId :

VN0322WBS01

Tot Ion:	180	Resp:	87805
Ion Ratio	Lower	Upper	
180	100		
182	94.4	48.0	144.2
145	27.6	14.2	42.8

Manual Integrations
APPROVED

MMDadoda
3/25/2019 3:11:12 PM



#94

Hexachlorobutadiene

Concen: 21.427 ug/l

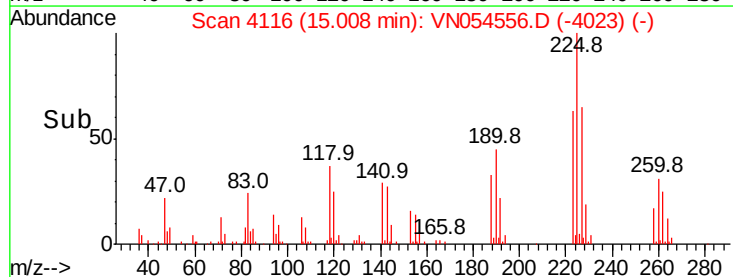
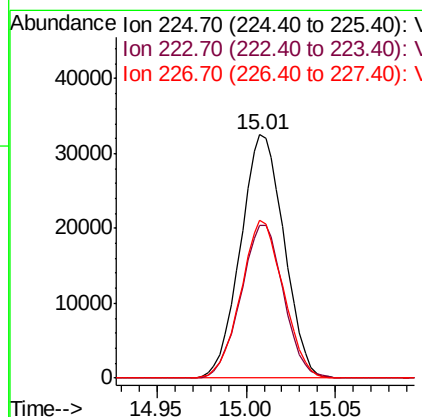
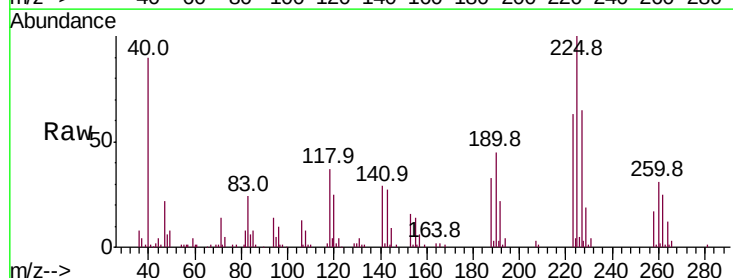
RT: 15.01 min Scan# 4116

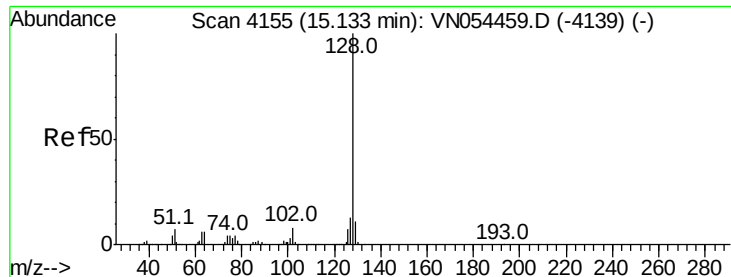
Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion:	225	Resp:	55455
Ion Ratio	Lower	Upper	
225	100		
223	61.6	31.1	93.5
227	63.1	31.9	95.9





#95

Naphthalene

Concen: 20.980 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Instrument :

MSVOA_N

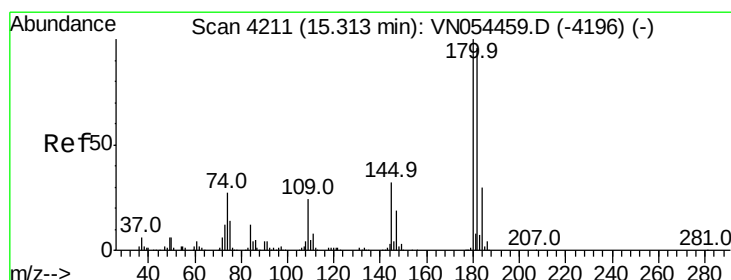
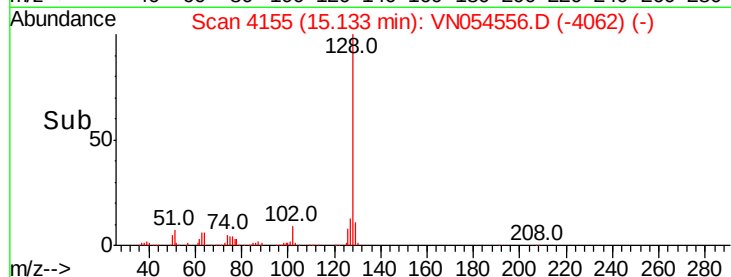
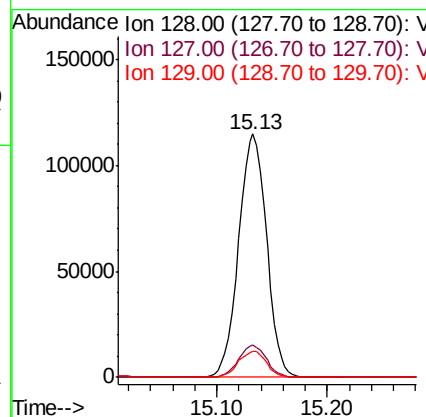
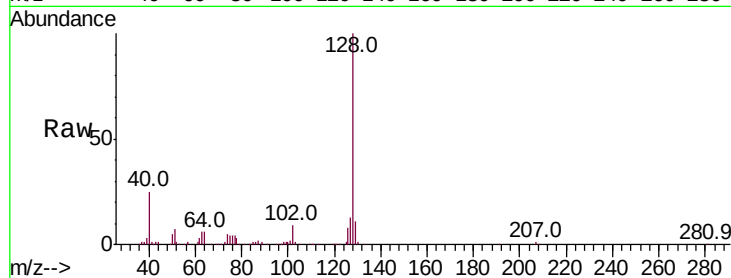
ClientSampleId :

VN0322WBS01

Tot Ion:	128	Resp:	202198
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.1	15.1
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/25/2019 3:11:12 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.295 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN054556.D

Acq: 22 Mar 2019 14:25

Tgt Ion:	180	Resp:	87276
Ion Ratio	Lower	Upper	
180	100		
182	98.4	47.5	142.6
145	30.7	14.8	44.3

