

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\
 Data File : VV009155.D
 Acq On : 04 Jan 2019 11:18
 Operator : SY/MD
 Sample : VSTD00563
 Misc : 5.00 G/10ML/MSVOA V/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Manual Integrations
 APPROVED

MMDadoda
 1/7/2019 11:59:55 PM

Quant Time: Jan 05 04:34:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:20:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	159687	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	141398	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	70461	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	7773	7.12	ug/L	0.00
7) Chloroethane-d5	1.58	69	5112	4.83	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	22319	6.11	ug/L	0.00
20) 2-Butanone-d5	3.97	46	8223m	10.86	ug/L	0.00
24) Chloroform-d	4.40	84	19532	5.81	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	9838	5.47	ug/L	0.00
29) Benzene-d6	5.10	84	37932	6.02	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	10672	5.91	ug/L	0.00
37) Toluene-d8	7.36	98	35016	5.89	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	4503	5.25	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	4689	11.00	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	10668	5.37	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	13092	5.50	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	16333	6.363	ug/L 95
3) Chloromethane	1.25	50	10393	5.978	ug/L 95
5) Vinyl chloride	1.32	62	10807	5.806	ug/L 96
6) Bromomethane	1.53	94	5597	4.269	ug/L 96
8) Chloroethane	1.59	64	5105	4.450	ug/L 87
9) Trichlorofluoromethane	1.76	101	22488	6.589	ug/L 98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	13232	5.822	ug/L 97
12) 1,1-Dichloroethene	2.14	96	11105	5.634	ug/L 88
13) Acetone	2.21	43	12925	11.869	ug/L 98
14) Carbon disulfide	2.32	76	33042	5.866	ug/L 100
15) Methyl Acetate	2.47	43	7223	5.360	ug/L 98
16) Methylene chloride	2.53	84	20809	8.722	ug/L 97
17) Methyl tert-butyl Ether	2.81	73	22025	4.562	ug/L 95
18) trans-1,2-Dichloroethene	2.79	96	11787	5.643	ug/L 98
19) 1,1-Dichloroethane	3.23	63	18388	5.301	ug/L 98
21) 2-Butanone	4.04	43	9097m	9.083	ug/L
22) cis-1,2-Dichloroethene	3.96	96	12004	5.375	ug/L 96
23) Bromochloromethane	4.30	128	5251	4.998	ug/L 94
25) Chloroform	4.42	83	19575	5.299	ug/L 100
27) 1,2-Dichloroethane	5.18	62	12477	5.028	ug/L 95
30) Cyclohexane	4.72	56	18169	5.796	ug/L 99
31) 1,1,1-Trichloroethane	4.66	97	18651	5.425	ug/L 99
32) Carbon tetrachloride	4.87	117	17127	5.443	ug/L 97
34) Benzene	5.15	78	41307	5.434	ug/L 100
35) Trichloroethene	5.96	95	12084	5.518	ug/L 99
36) Methylcyclohexane	6.17	83	20812	5.688	ug/L 98
40) 1,2-Dichloropropane	6.22	63	9090	4.961	ug/L 97
41) Bromodichloromethane	6.55	83	13044	5.194	ug/L 94
42) cis-1,3-Dichloropropene	7.07	75	13642	4.699	ug/L 96
43) 4-Methyl-2-pentanone	7.29	43	17562	10.056	ug/L 93

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Manual Integrations
 APPROVED

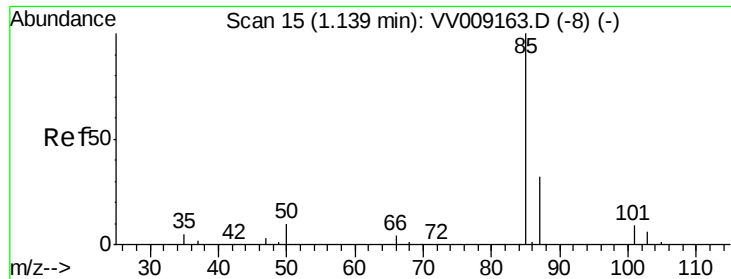
MMDadoda
 1/7/2019 11:59:55 PM

Quant Time: Jan 05 04:34:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

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

44) Toluene	7.43	91	43274	5.280	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	12837	5.050	ug/L	94
46) 1,1,2-Trichloroethane	7.88	97	8166	5.043	ug/L	97
47) Tetrachloroethene	8.02	164	11225	5.916	ug/L	91
49) 2-Hexanone	8.20	43	11271	8.769	ug/L	98
50) Dibromochloromethane	8.29	129	9520	4.786	ug/L	97
51) 1,2-Dibromoethane	8.40	107	8249	4.872	ug/L #	96
52) Chlorobenzene	8.92	112	30030	5.340	ug/L	97
53) Ethylbenzene	9.05	91	48812	5.267	ug/L	97
54) m,p-Xylene	9.18	106	18034	4.994	ug/L	94
55) o-xylene	9.59	106	17196	5.150	ug/L	97
56) Styrene	9.60	104	27874	4.950	ug/L	91
57) Isopropylbenzene	9.98	105	47794	5.159	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	10768	4.963	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	8346	4.813	ug/L	99
62) Bromoform	9.78	173	6292	5.056	ug/L #	95
63) 1,3-Dichlorobenzene	11.23	146	22350	5.034	ug/L	96
64) 1,4-Dichlorobenzene	11.32	146	24166	5.222	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	21855	5.168	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	2160	4.920	ug/L	88
67) 1,3,5-Trichlorobenzene	12.69	180	17252	4.818	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	11658	4.000	ug/L	94
69) Naphthalene	13.56	128	17895	3.015	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	10462	3.912	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 6.363 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tot Ion: 85 Resp: 16333

Ion Ratio Lower Upper

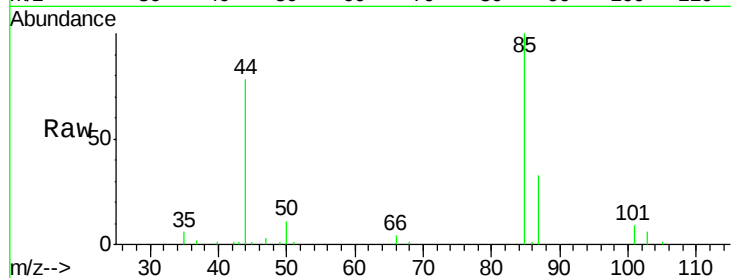
85 100

87 29.1 22.5 41.7

Manual Integrations
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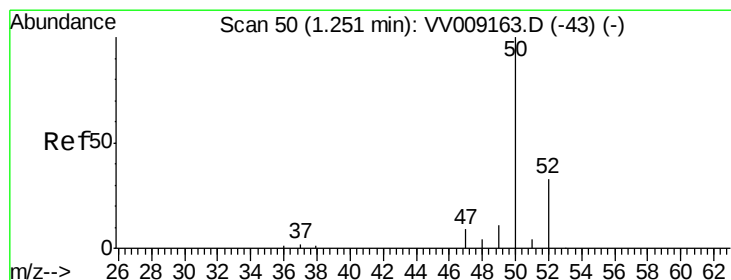
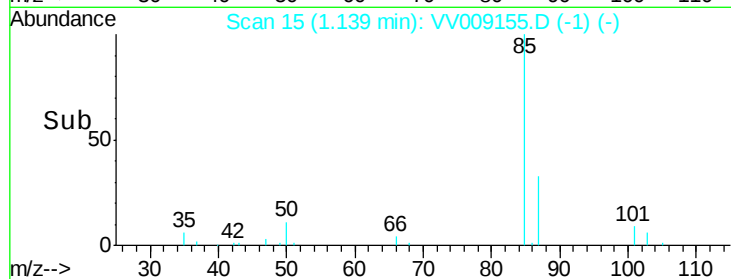
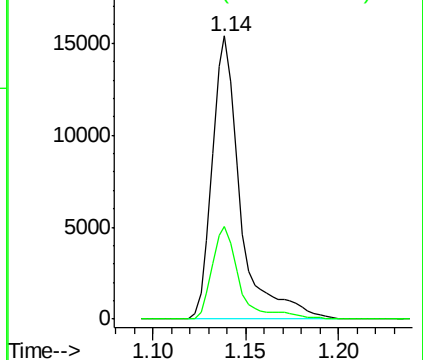
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 5.978 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009155.D

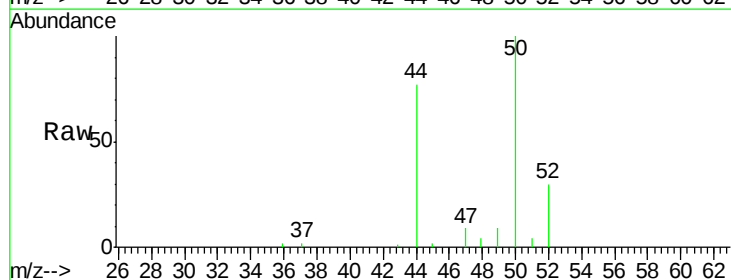
Acq: 04 Jan 2019 11:18

Tgt Ion: 50 Resp: 10393

Ion Ratio Lower Upper

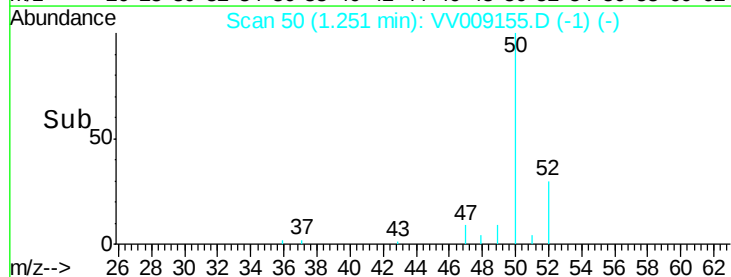
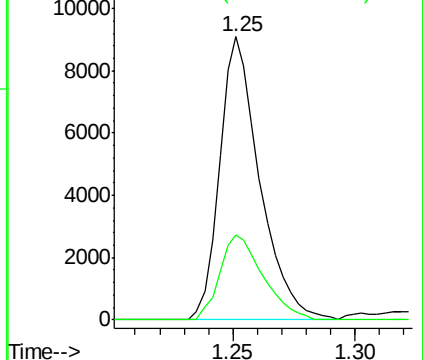
50 100

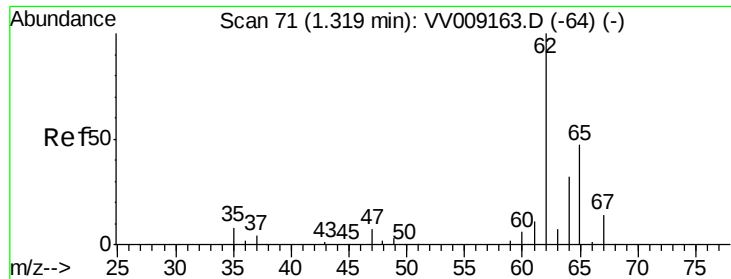
52 30.2 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 5.806 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampled :

VSTD00563

Tot Ion: 62 Resp: 10807

Ion Ratio Lower Upper

62 100

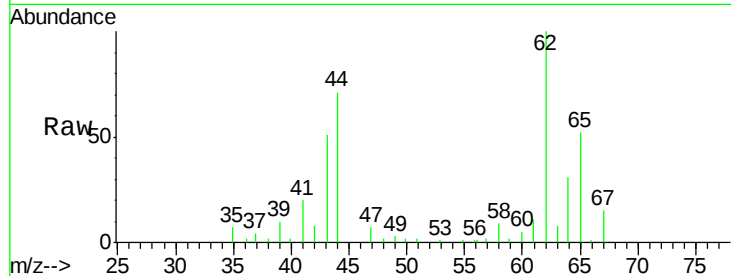
64 30.7 23.0 42.6

Manual Integrations

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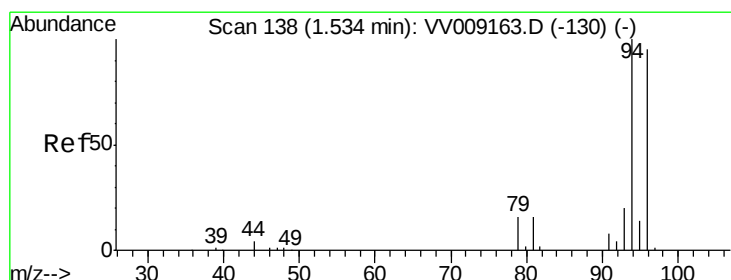
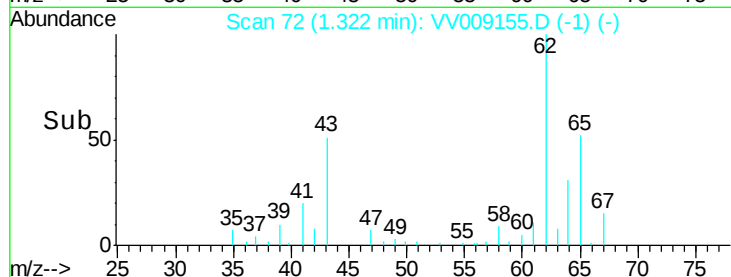
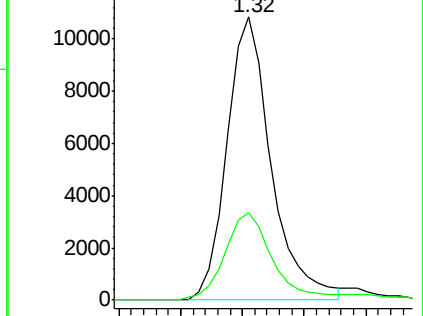
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Abundance Ion 62.00 (61.70 to 62.70): VV009163.D (-64) (-)

Ion 64.00 (63.70 to 64.70): VV009163.D (-64) (-)



#6

Bromomethane

Concen: 4.269 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV009155.D

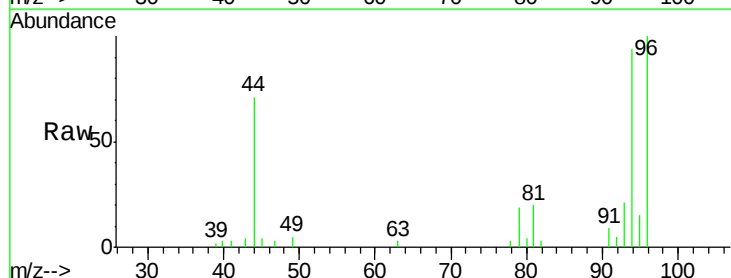
Acq: 04 Jan 2019 11:18

Tgt Ion: 94 Resp: 5597

Ion Ratio Lower Upper

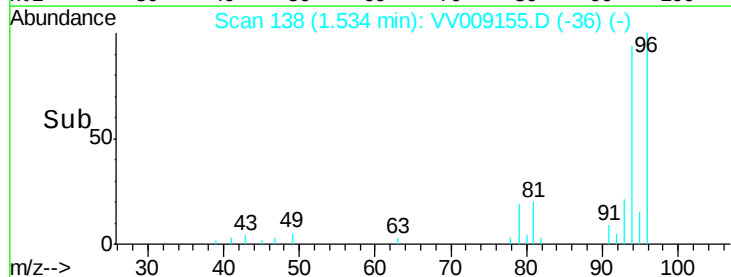
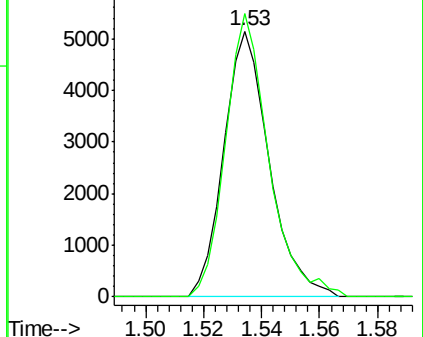
94 100

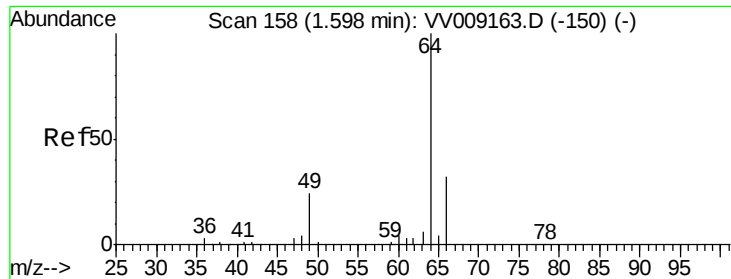
96 101.1 9.7 185.1



Abundance Ion 94.00 (93.70 to 94.70): VV009163.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV009163.D (-130) (-)





#8

Chloroethane

Concen: 4.450 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.01 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tot Ion: 64 Resp: 5105

Ion Ratio Lower Upper

64 100

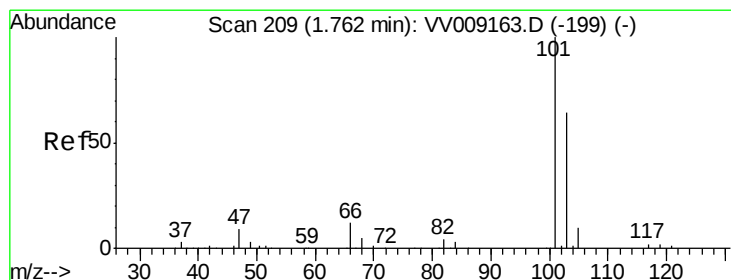
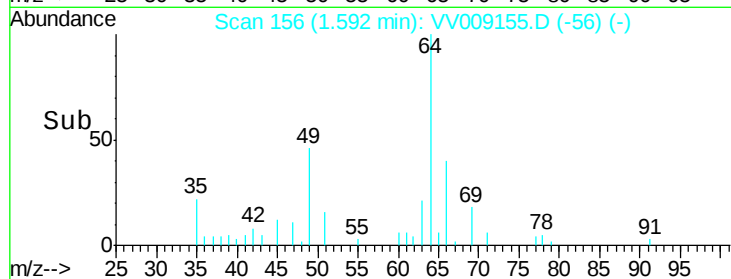
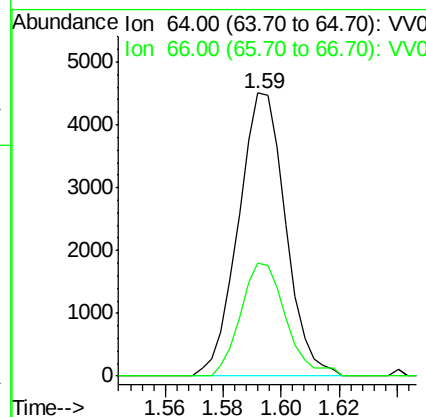
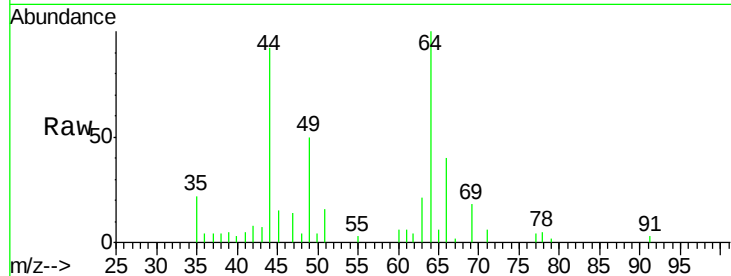
66 40.2 23.2 43.0

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 6.589 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.01 min

Lab File: VV009155.D

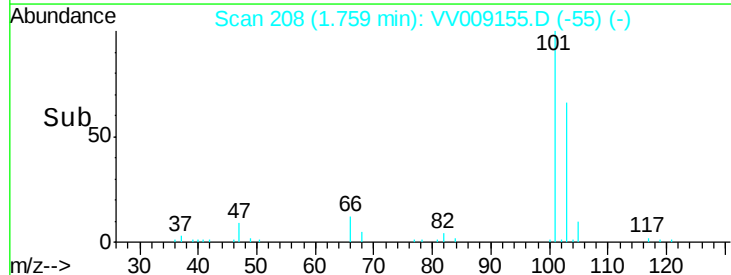
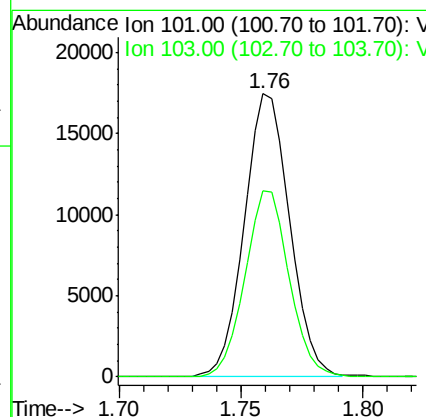
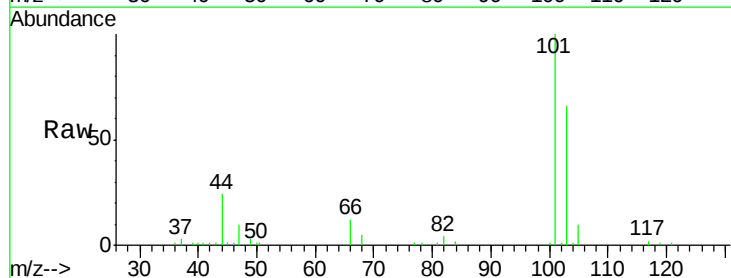
Acq: 04 Jan 2019 11:18

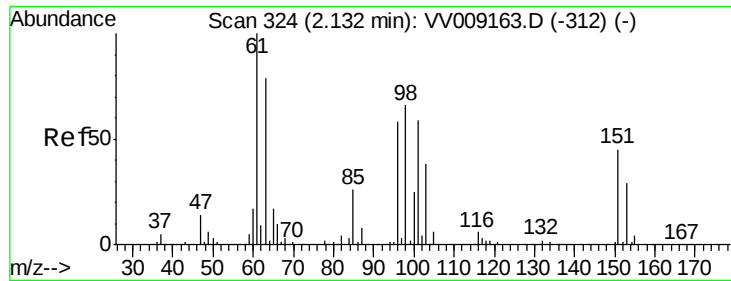
Tgt Ion: 101 Resp: 22488

Ion Ratio Lower Upper

101 100

103 63.8 46.0 85.4





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.822 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

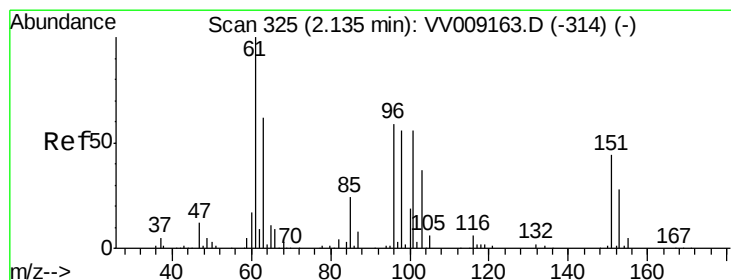
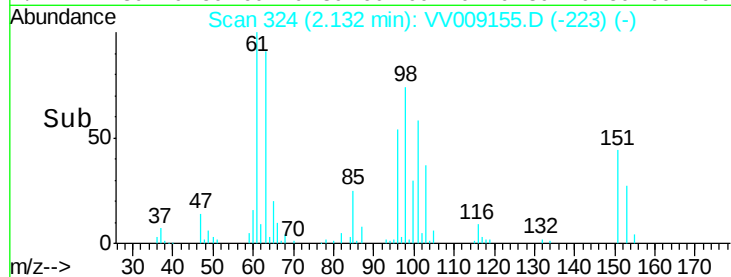
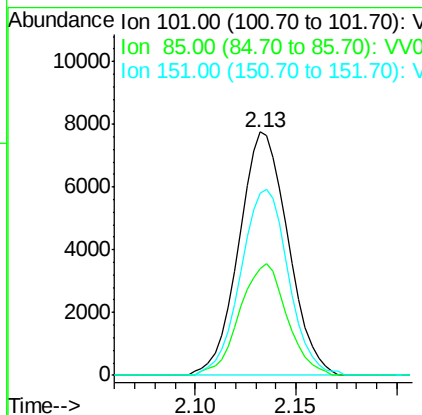
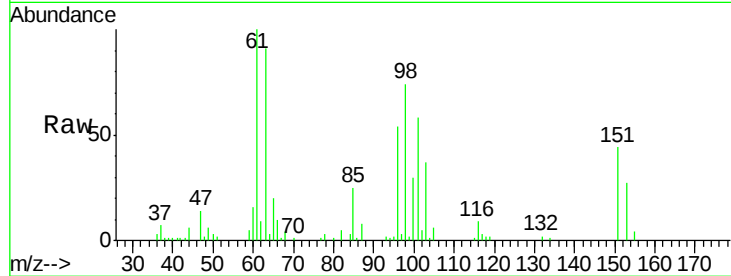
ClientSampleId :

VSTD00563

Tot Ion:	101	Resp:	13232
Ion Ratio	Lower	Upper	
101	100		
85	43.9	34.6	52.0
151	74.2	62.6	94.0

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 5.634 ug/L

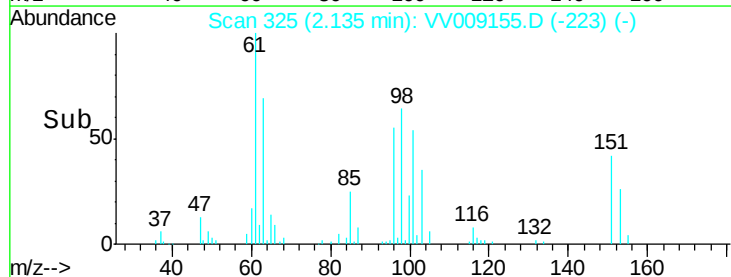
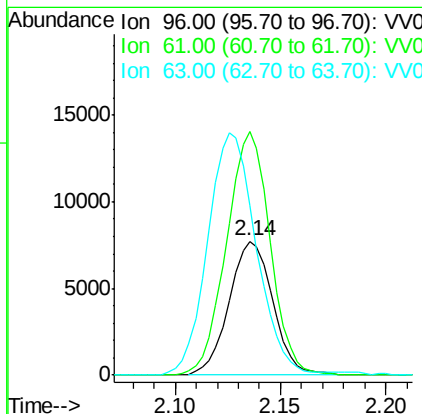
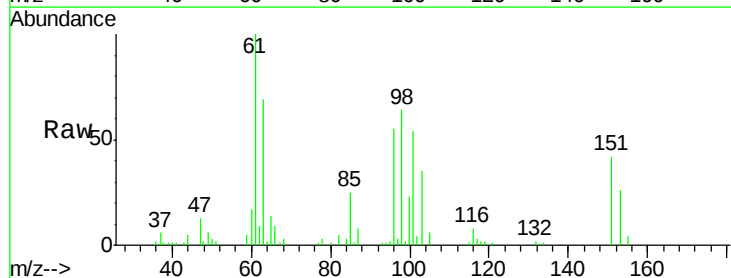
RT: 2.14 min Scan# 325

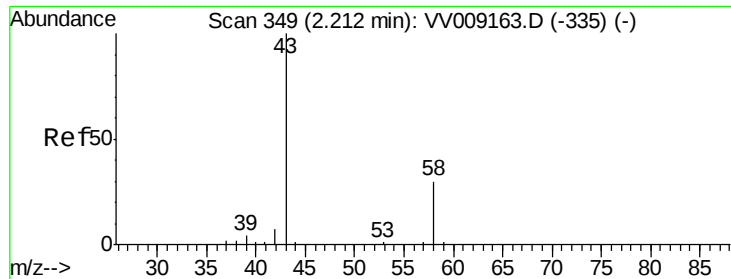
Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Tgt Ion:	96	Resp:	11105
Ion Ratio	Lower	Upper	
96	100		
61	182.1	117.0	217.4
63	126.5	78.2	145.2





#13

Acetone

Concen: 11.869 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.01 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tot Ion: 43 Resp: 12925

Ion Ratio Lower Upper

43 100

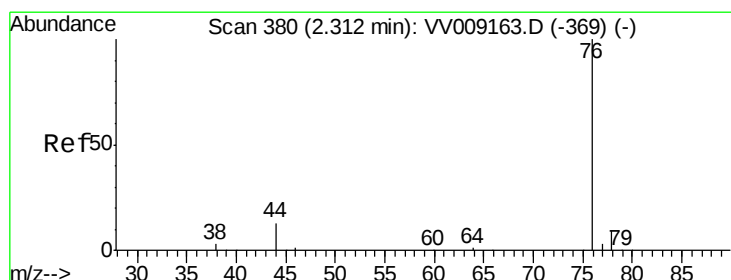
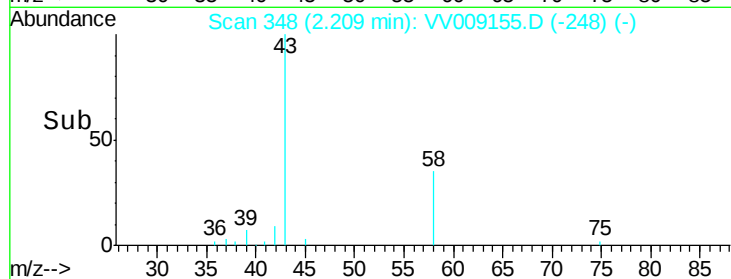
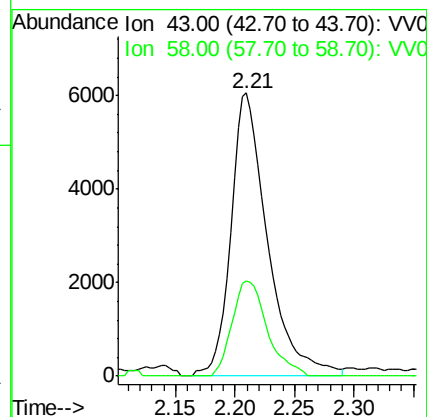
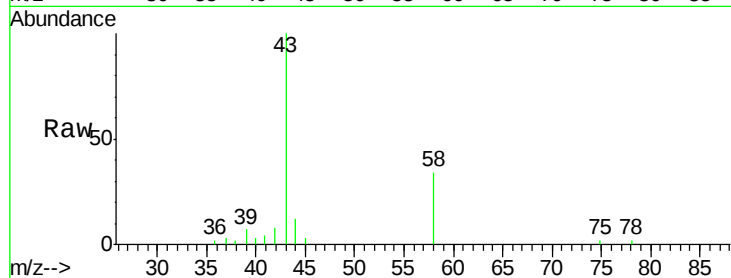
58 32.3 0.0 67.0

Manual Integrations

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#14

Carbon disulfide

Concen: 5.866 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009155.D

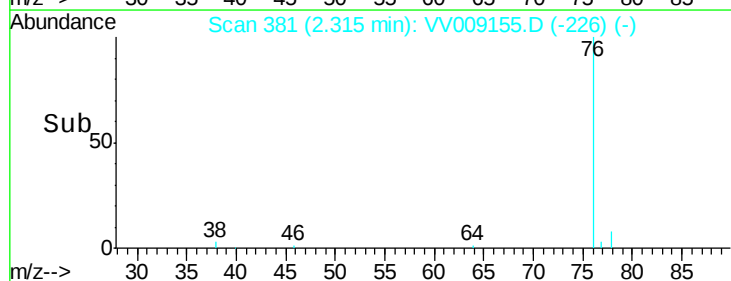
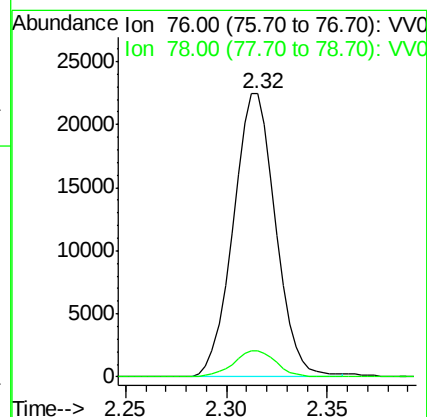
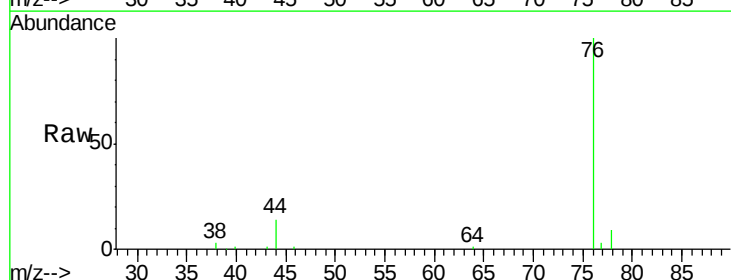
Acq: 04 Jan 2019 11:18

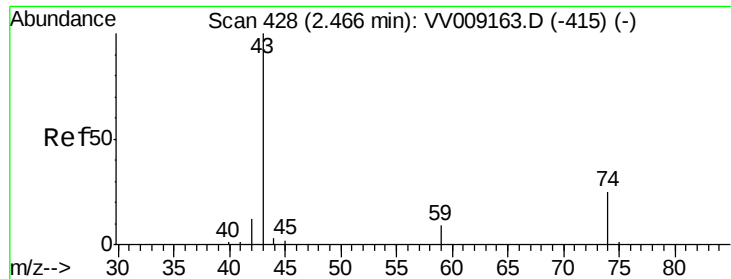
Tgt Ion: 76 Resp: 33042

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





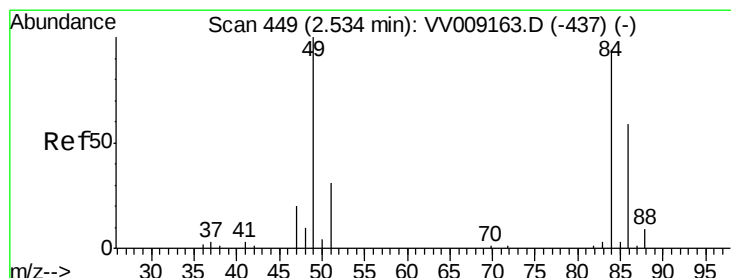
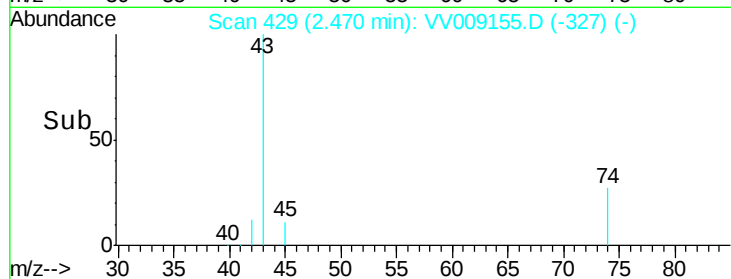
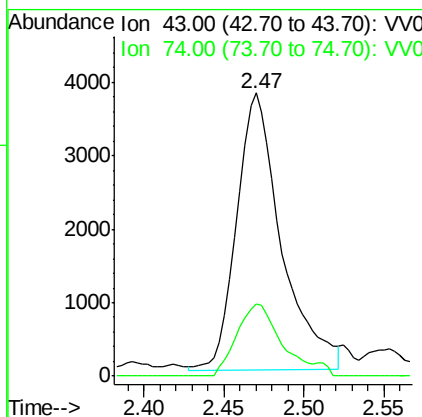
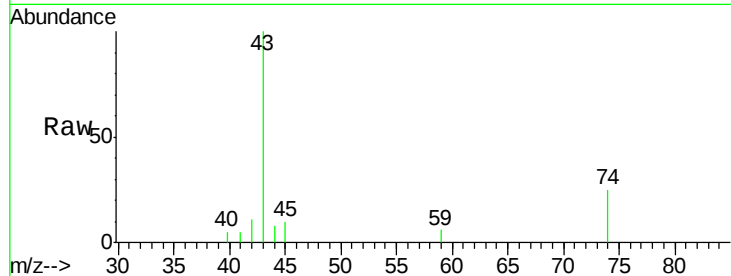
#15
Methvl Acetate
Concen: 5.360 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Instrument :
MSVOA_V
ClientSampled :
VSTD00563

Tot Ion: 43 Resp: 7223
Ion Ratio Lower Upper
43 100
74 25.4 19.4 29.0

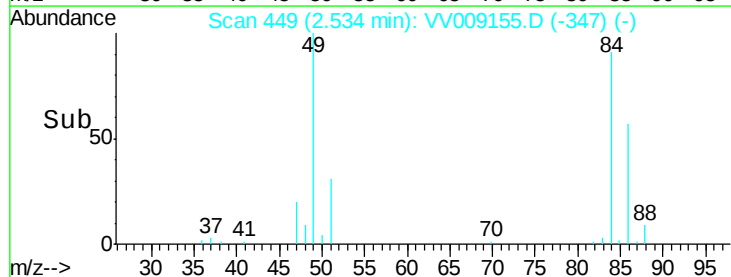
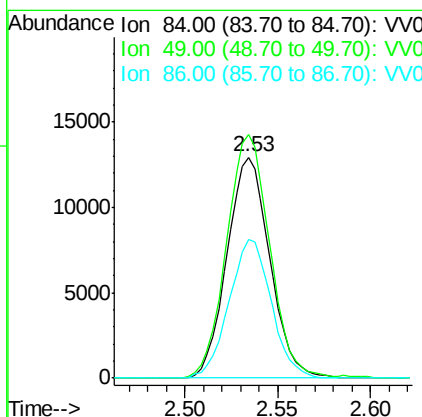
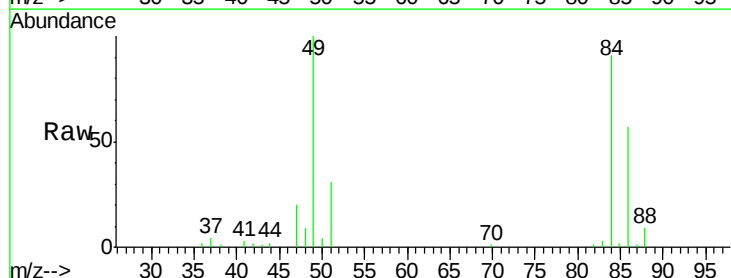
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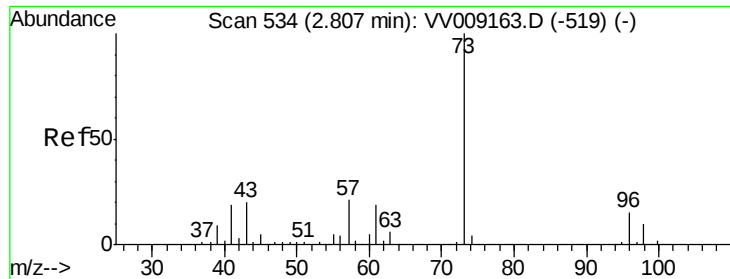
MMDadoda
1/7/2019 11:59:55 PM



#16
Methylene chloride
Concen: 8.722 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion: 84 Resp: 20809
Ion Ratio Lower Upper
84 100
49 110.2 77.6 144.2
86 62.8 47.4 88.0





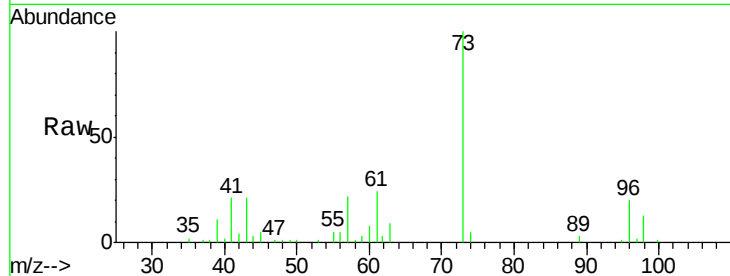
#17
Methvl tert-butvl Ether
Concen: 4.562 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Instrument :
MSVOA_V
ClientSampled :
VSTD00563

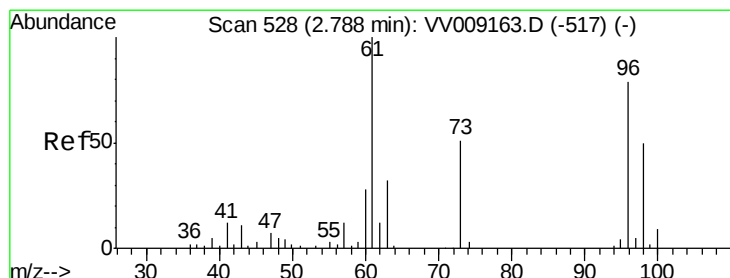
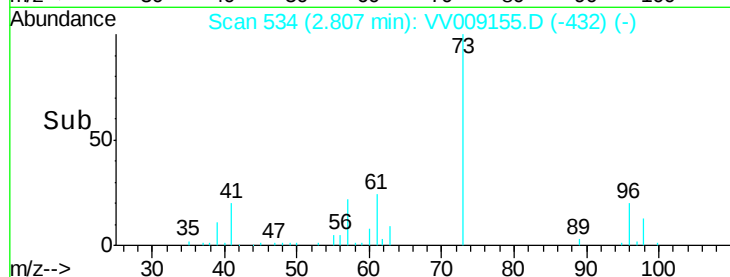
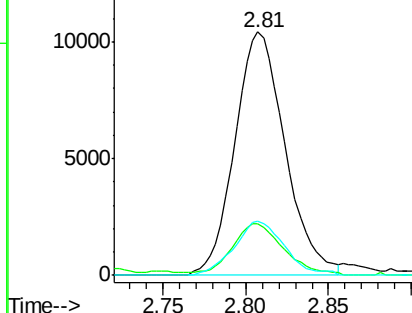
Tot Ion	Ratio	Lower	Upper
73	100		
43	22.2	15.4	23.2
57	22.0	16.2	24.2

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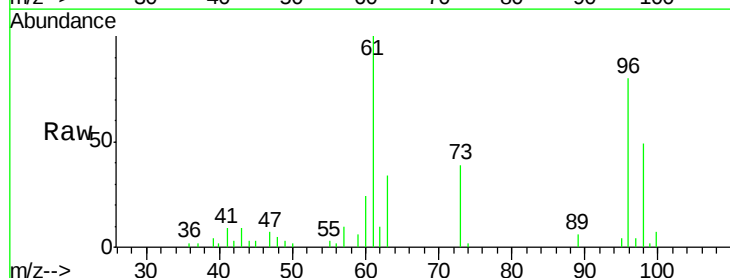


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

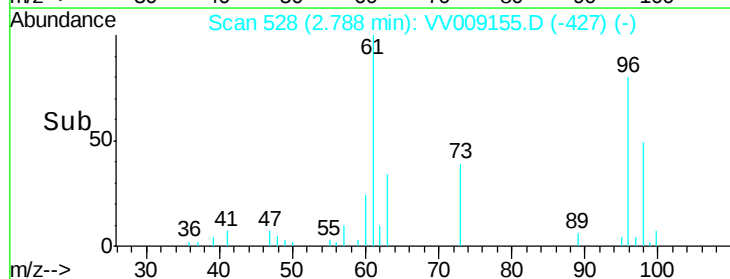
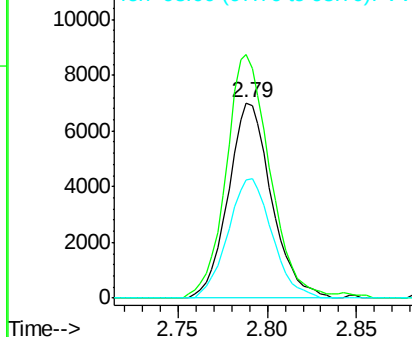


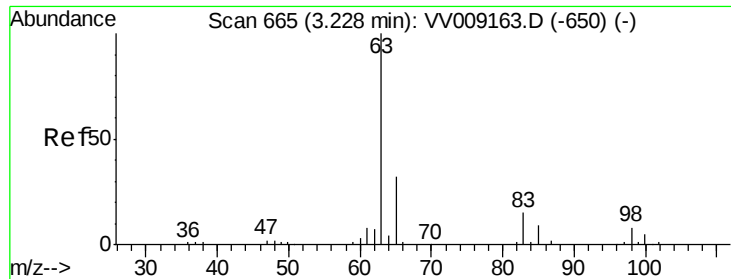
#18
trans-1,2-Dichloroethene
Concen: 5.643 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.01 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	124.6	88.8	164.8
98	60.6	43.5	80.9



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0





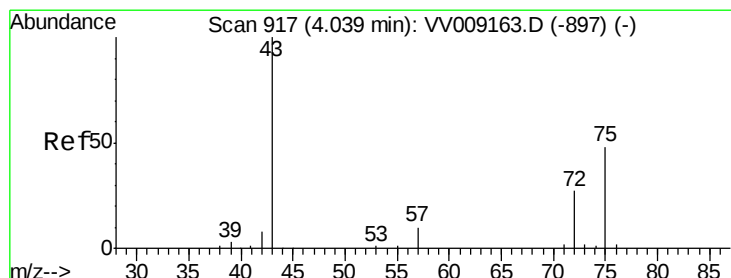
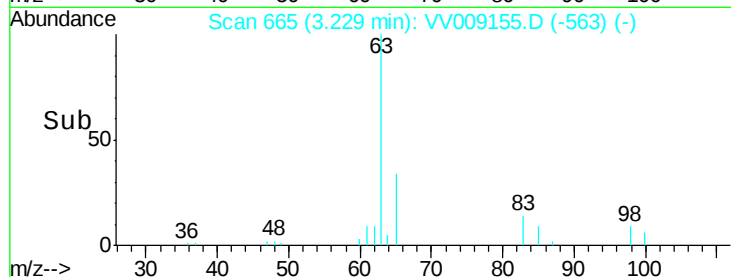
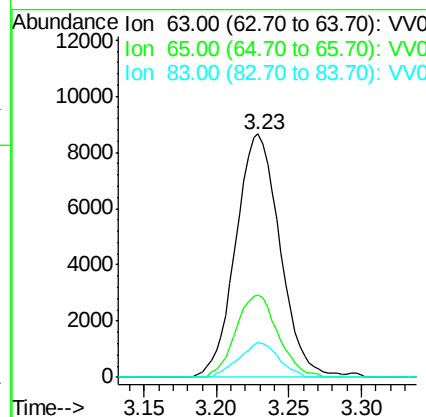
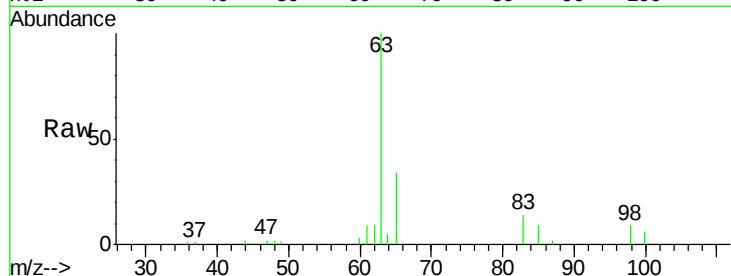
#19
 1,1-Dichloroethane
 Concen: 5.301 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.9	22.6	42.0
83	14.3	9.9	18.3

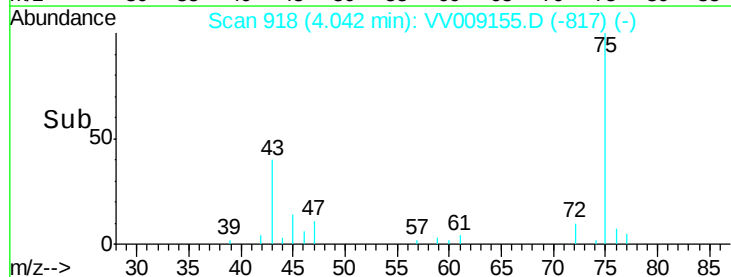
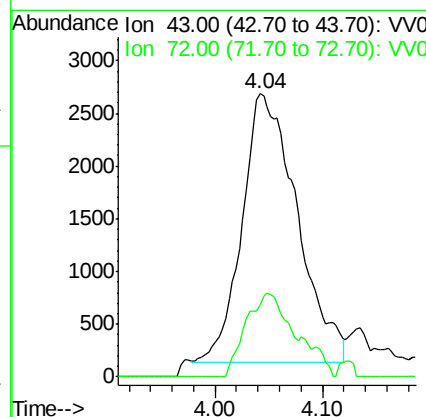
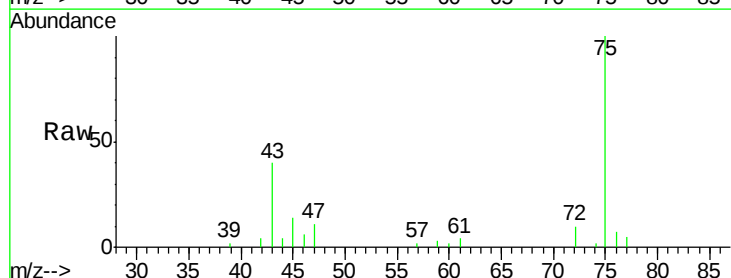
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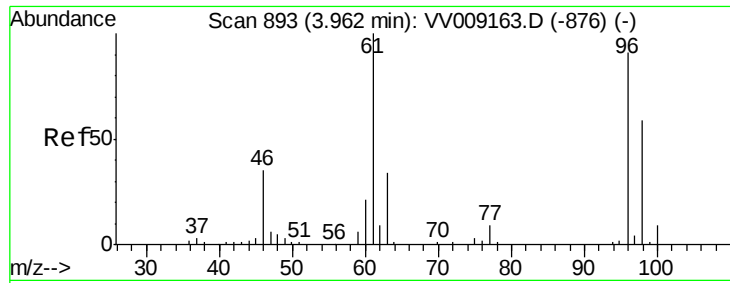
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#21
 2-Butanone
 Concen: 9.083 ug/L m
 RT: 4.04 min Scan# 918
 Delta R.T. -0.01 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion	Ratio	Lower	Upper
43	100		
72	6.7	0.1	0.1#





#22

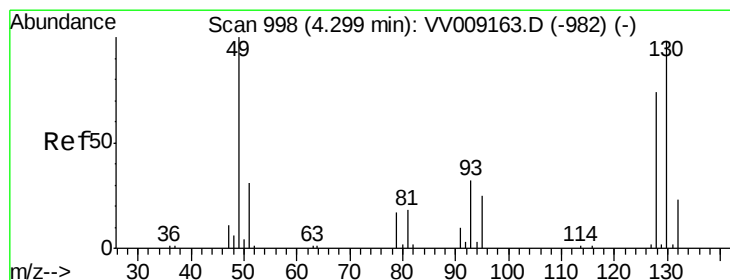
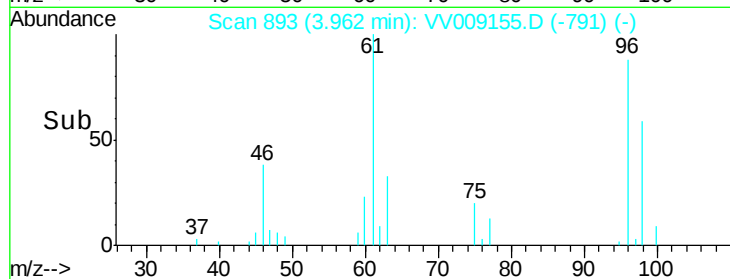
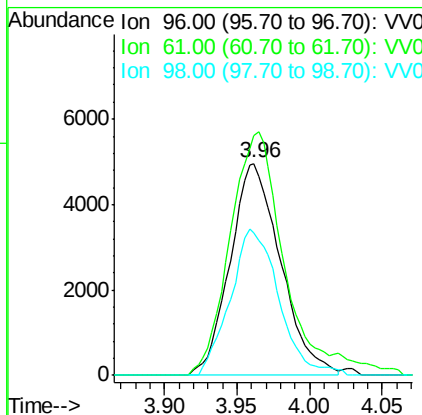
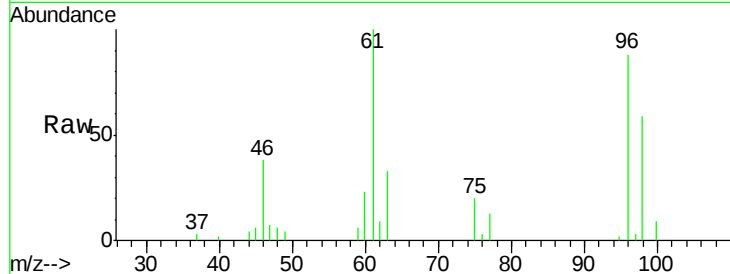
cis-1,2-Dichloroethene
Concen: 5.375 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

Tot Ion	Ratio	Lower	Upper
96	100		
61	113.1	83.2	154.6
98	67.1	45.8	85.2

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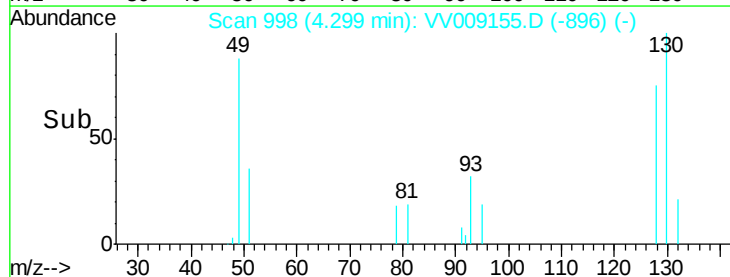
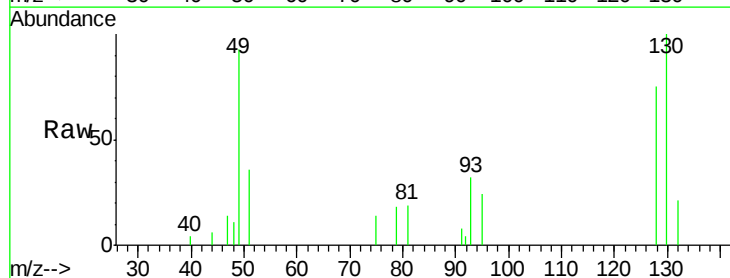
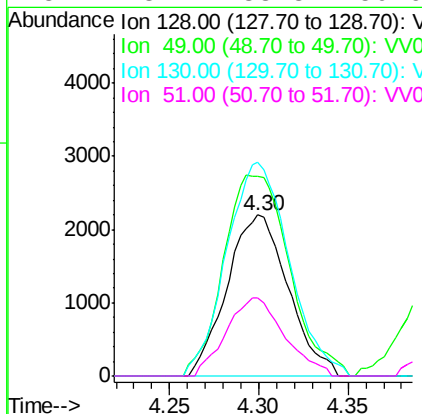
MMDadoda
1/7/2019 11:59:55 PM

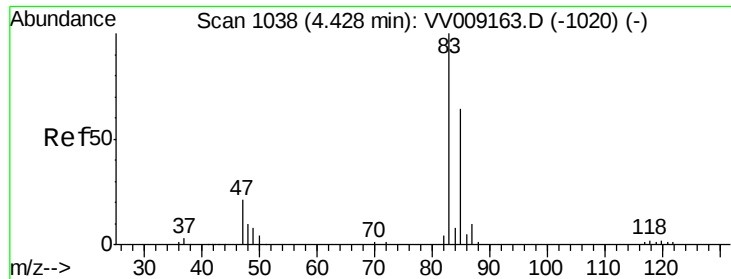


#23

Bromochloromethane
Concen: 4.998 ug/L
RT: 4.30 min Scan# 998
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion	Ratio	Lower	Upper
128	100		
49	123.7	89.9	167.0
130	132.7	87.8	163.2
51	48.4	33.8	50.6





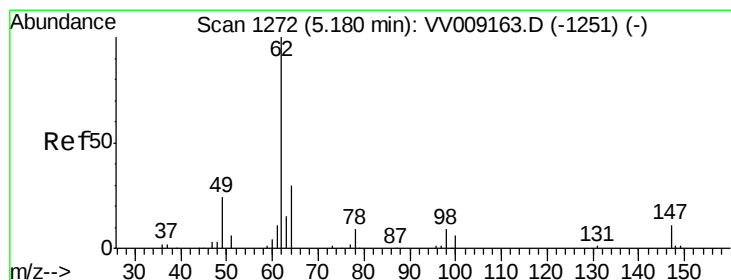
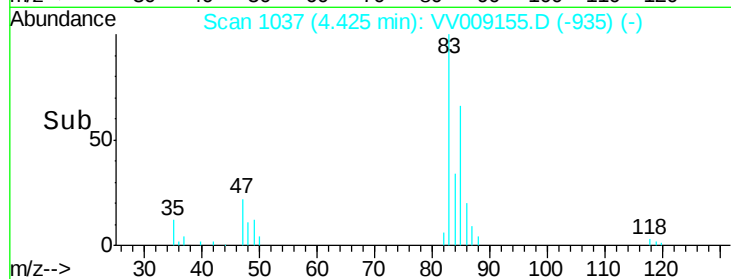
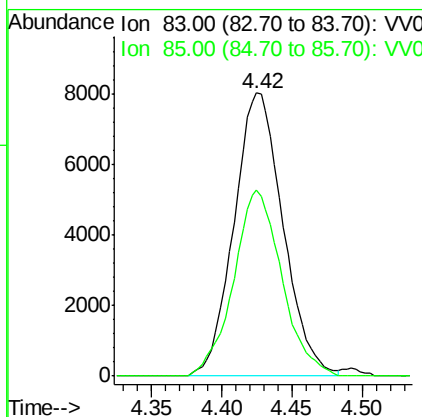
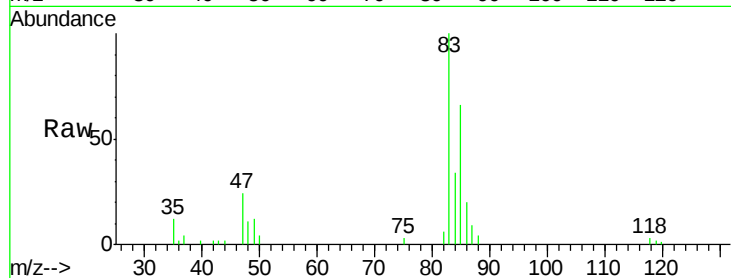
#25
Chloroform
Concen: 5.299 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

Tot Ion	83	Resp	19575
Ion Ratio	100	Lower	Upper
85	64.3	45.3	84.1

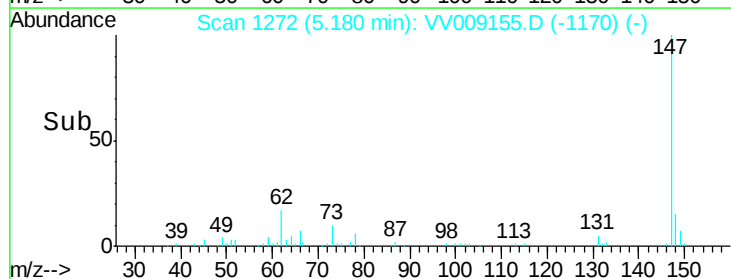
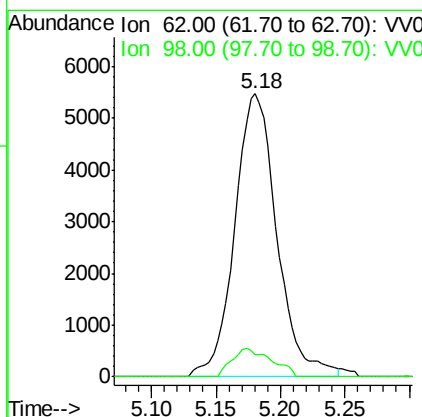
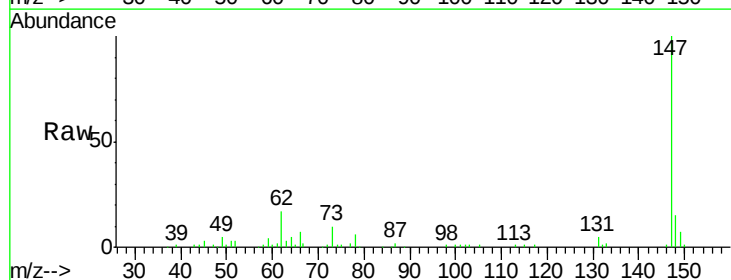
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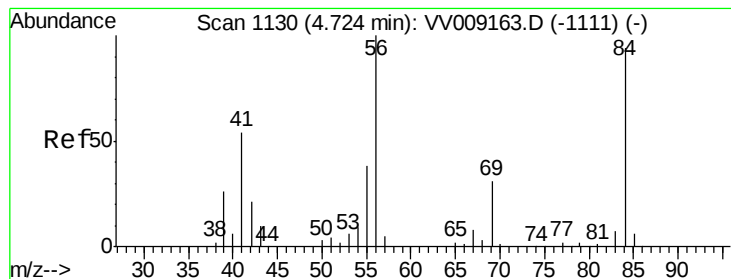
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#27
1,2-Dichloroethane
Concen: 5.028 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion	62	Resp	12477
Ion Ratio	100	Lower	Upper
98	8.1	8.1	12.1





#30

Cvclohexane

Concen: 5.796 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

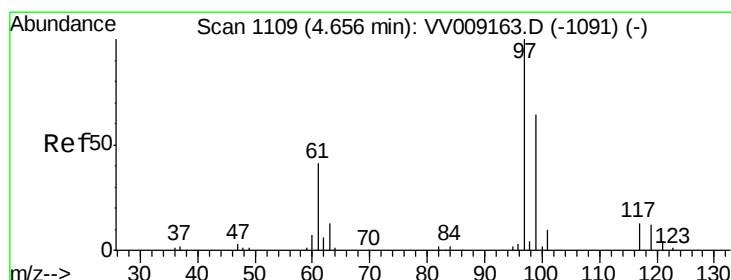
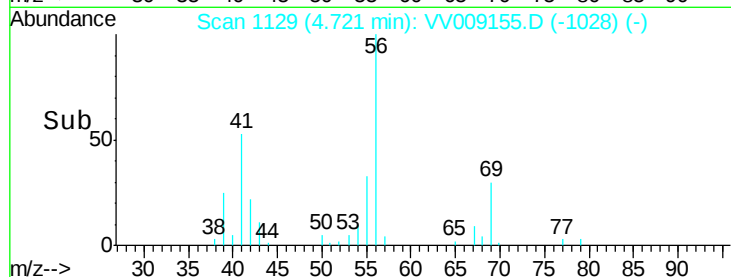
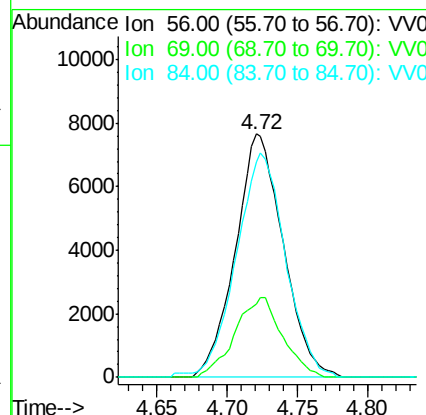
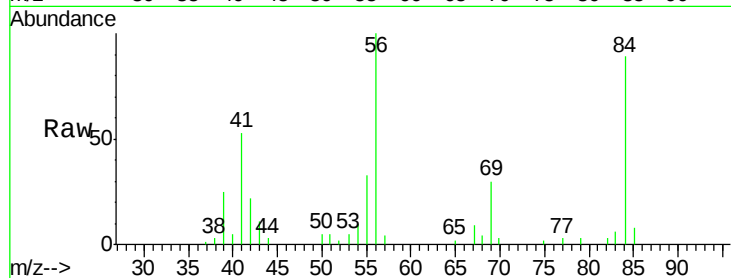
ClientSampleId :

VSTD00563

Tot Ion:	56	Resp:	18169
Ion	Ratio	Lower	Upper
56	100		
69	32.4	26.0	39.0
84	94.3	77.0	115.4

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#31

1,1,1-Trichloroethane

Concen: 5.425 ug/L

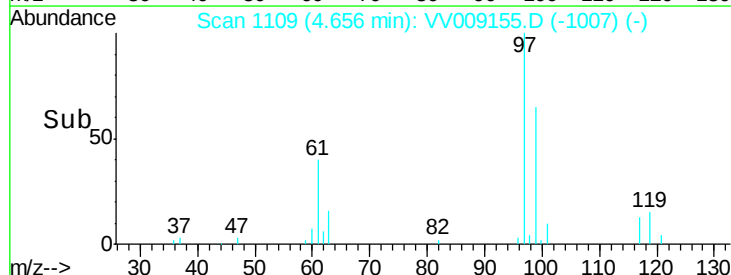
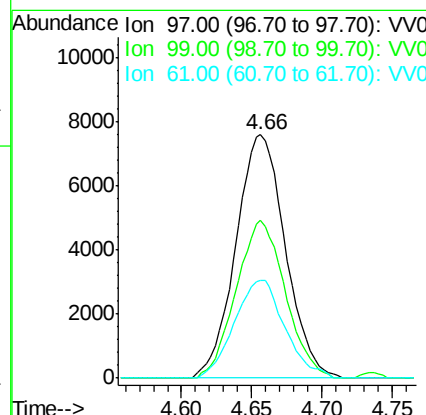
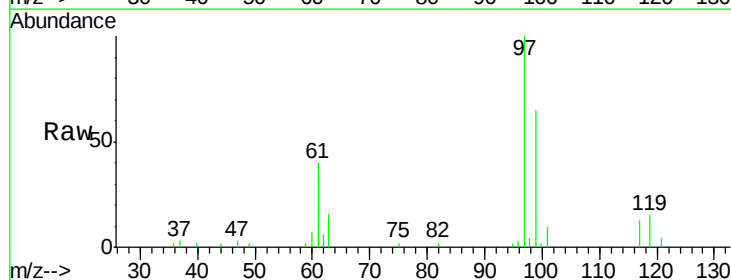
RT: 4.66 min Scan# 1109

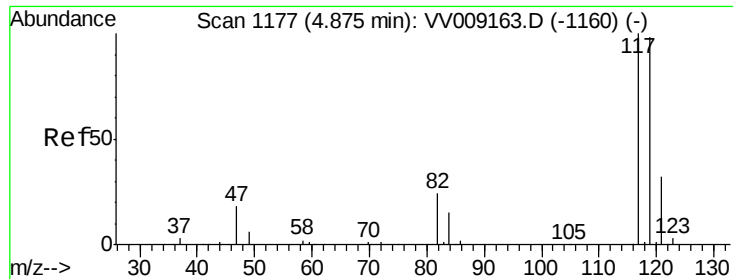
Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Tgt Ion:	97	Resp:	18651
Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.2	76.8
61	41.0	31.8	47.6





#32

Carbon tetrachloride

Concen: 5.443 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tot Ion:117 Resp: 17127

Ion Ratio Lower Upper

117 100

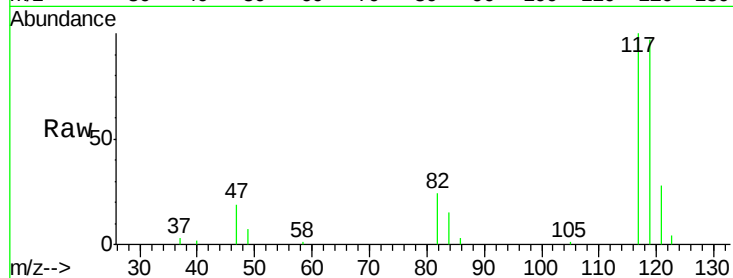
119 99.0 76.6 115.0

Manual Integrations

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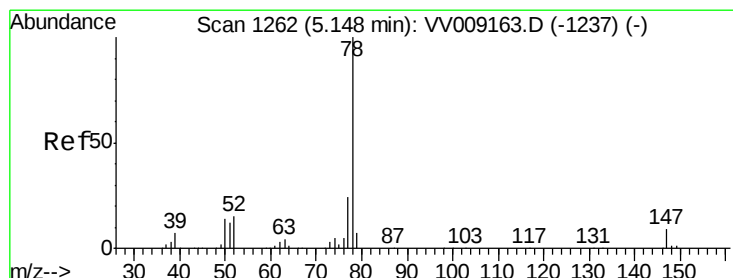
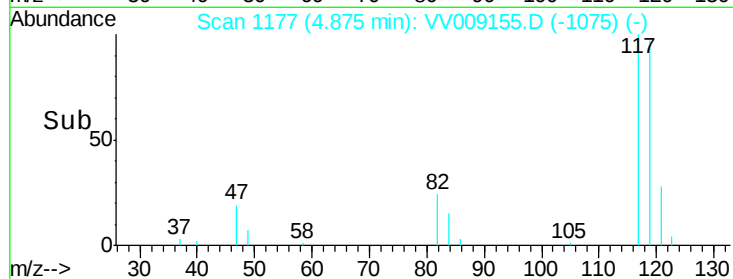
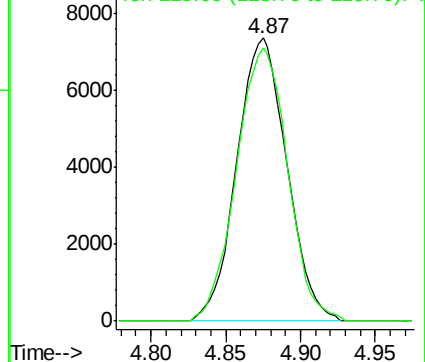
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 5.434 ug/L

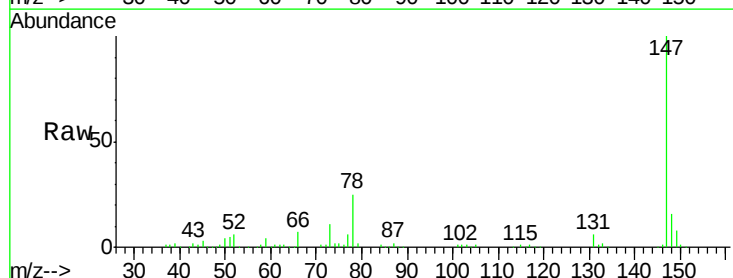
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

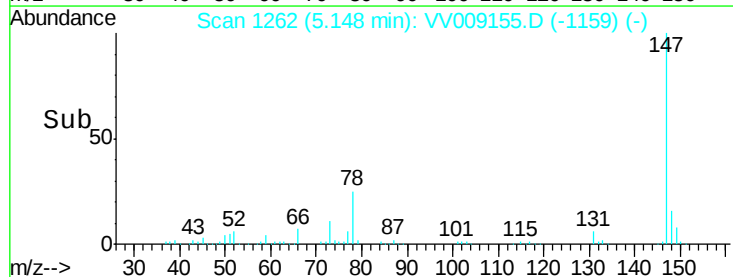
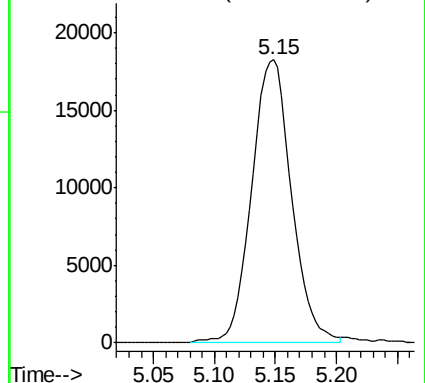
Lab File: VV009155.D

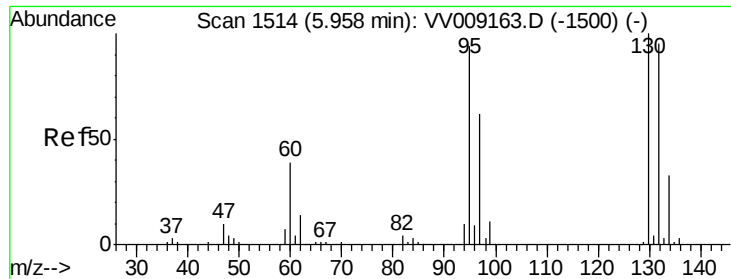
Acq: 04 Jan 2019 11:18

Tgt Ion: 78 Resp: 41307



Abundance Ion 78.00 (77.70 to 78.70): VV0





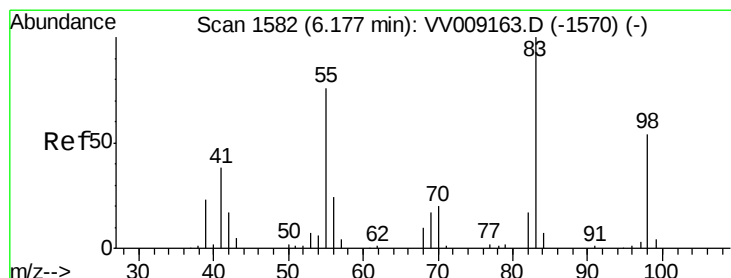
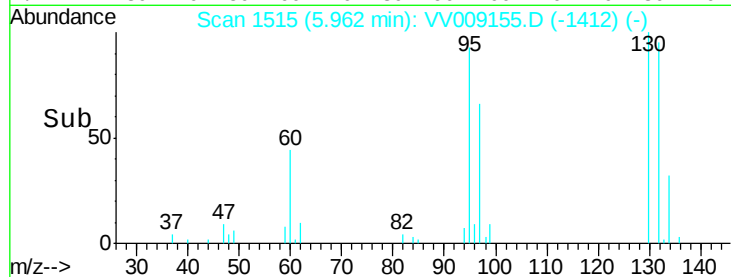
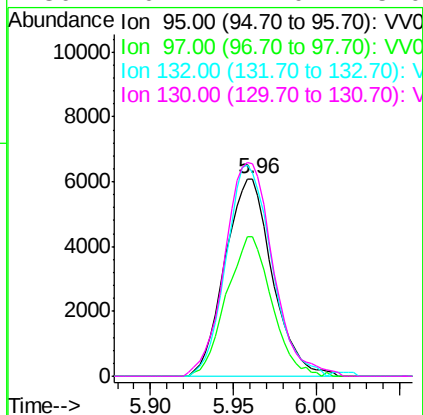
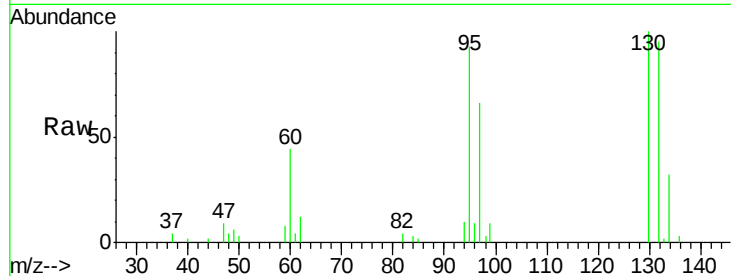
#35
 Trichloroethene
 Concen: 5.518 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
97	67.2	46.2	85.8	
132	103.2	73.9	137.3	
130	110.2	77.0	143.0	

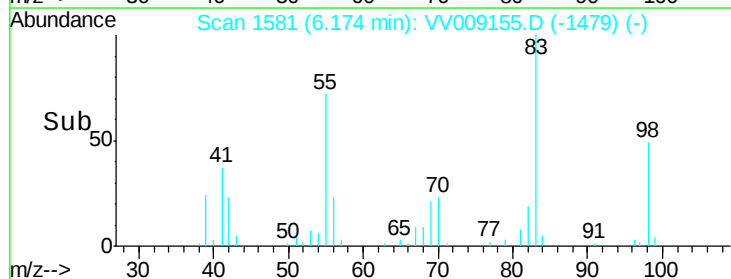
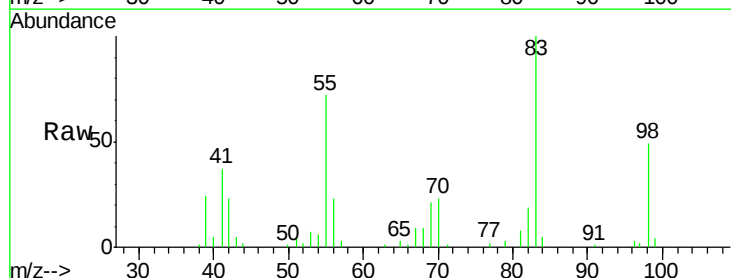
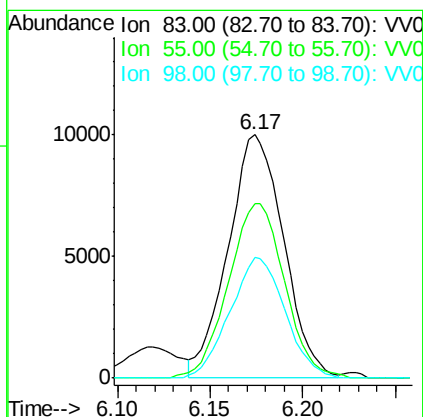
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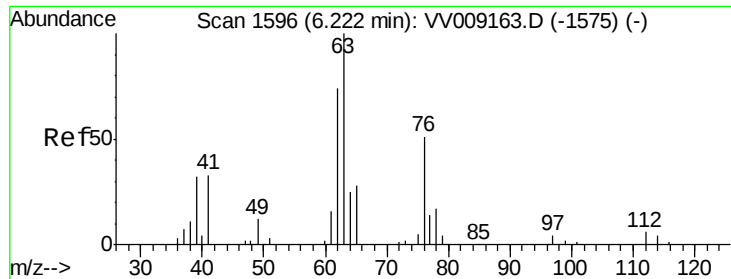
MMDadoda
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#36
 Methylcyclohexane
 Concen: 5.688 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion	Ion	Ratio	Lower	Upper
83	100			
55	72.5	58.5	87.7	
98	49.1	41.4	62.0	





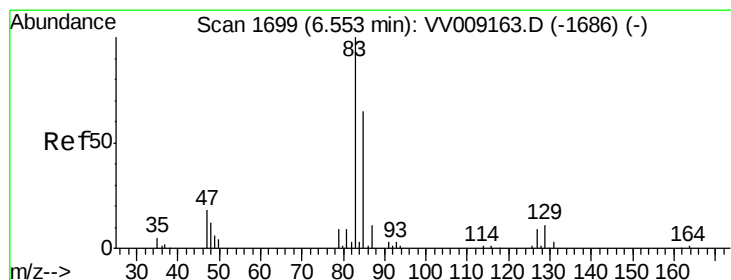
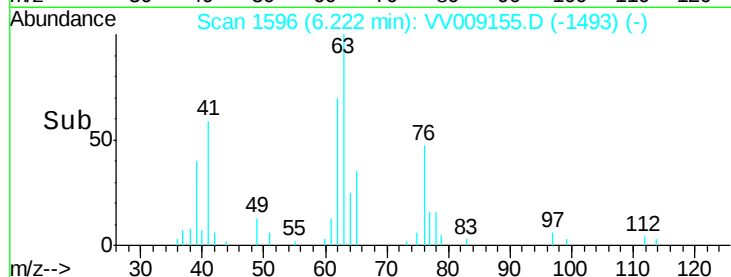
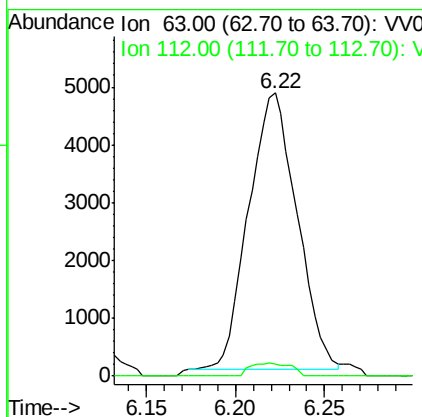
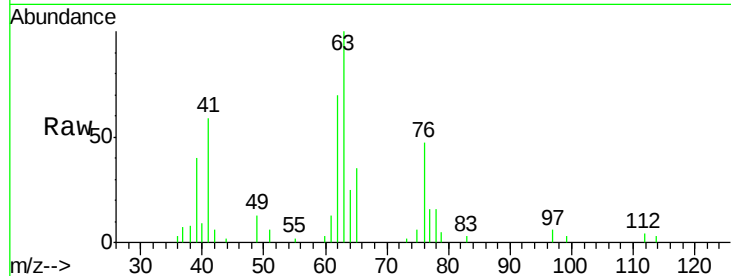
#40
 1,2-Dichloropropane
 Concen: 4.961 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tot Ion: 63 Resp: 9090
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.9 5.9

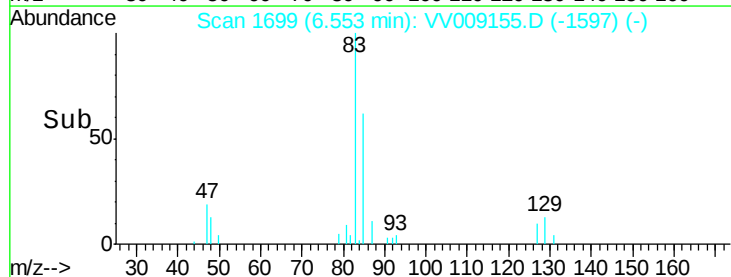
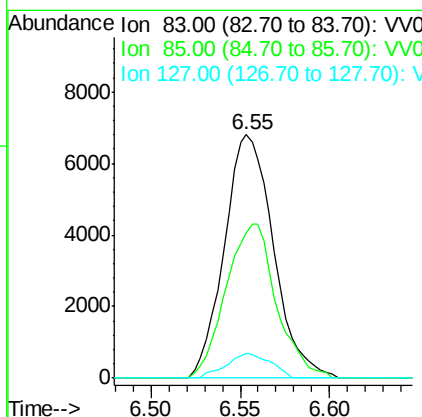
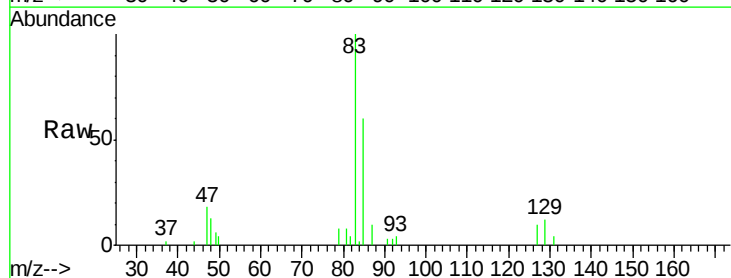
Manual Integrations
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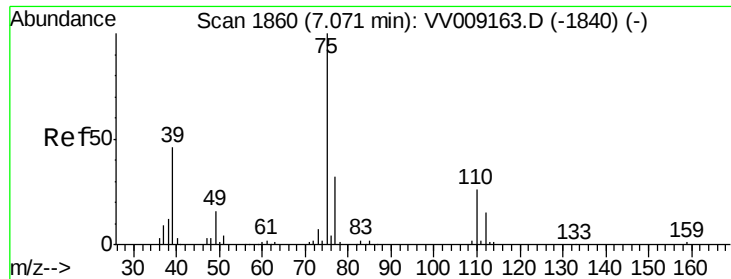
MMDadoda
 1/7/2019 11:59:55 PM



#41
 Bromodichloromethane
 Concen: 5.194 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion: 83 Resp: 13044
 Ion Ratio Lower Upper
 83 100
 85 59.6 45.3 84.1
 127 9.9 7.8 11.6





#42

cis-1,3-Dichloropropene

Concen: 4.699 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tot Ion: 75 Resp: 13642

Ion Ratio Lower Upper

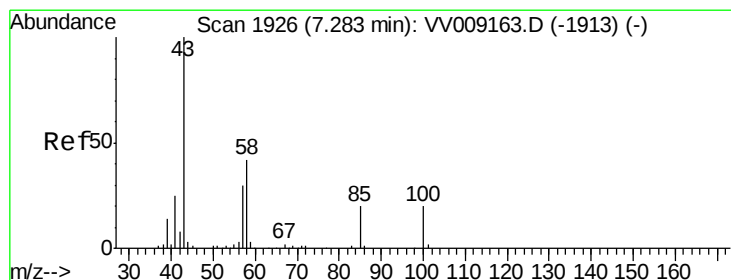
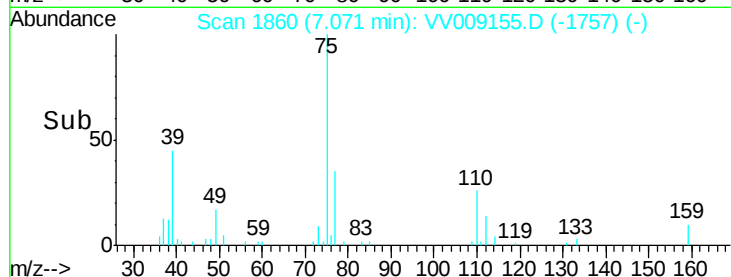
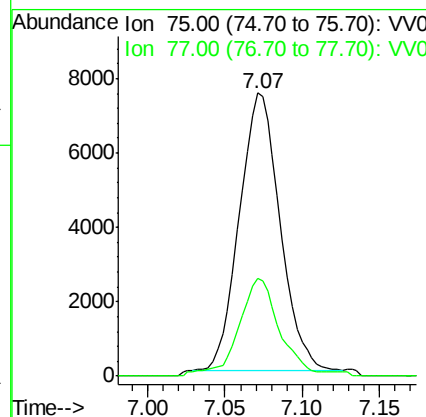
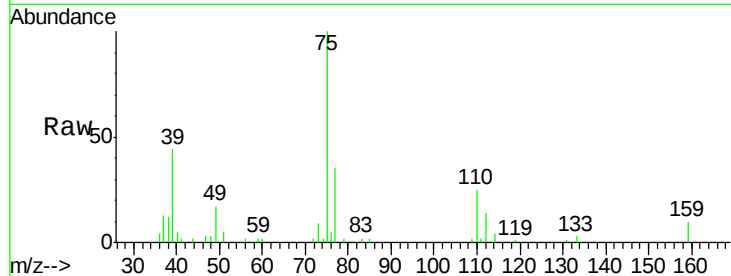
75 100

77 34.7 22.8 42.4

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#43

4-Methyl-2-pentanone

Concen: 10.056 ug/L

RT: 7.29 min Scan# 1927

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

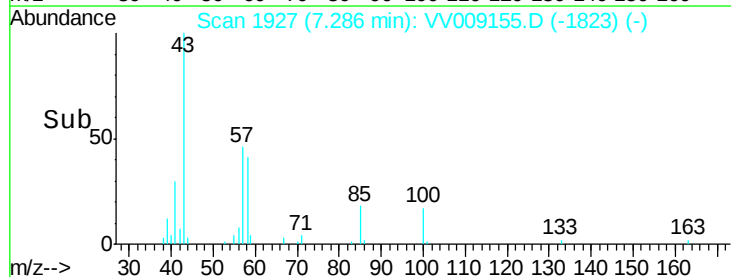
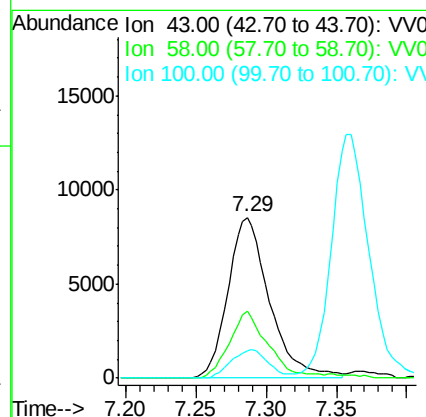
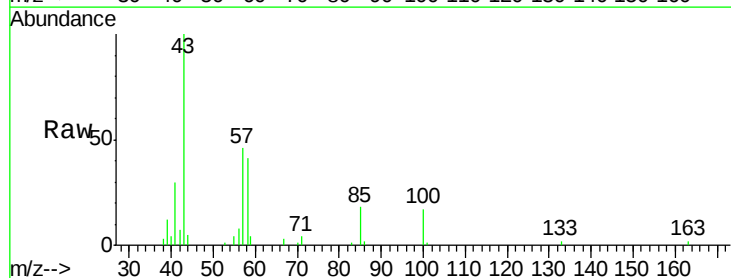
Tgt Ion: 43 Resp: 17562

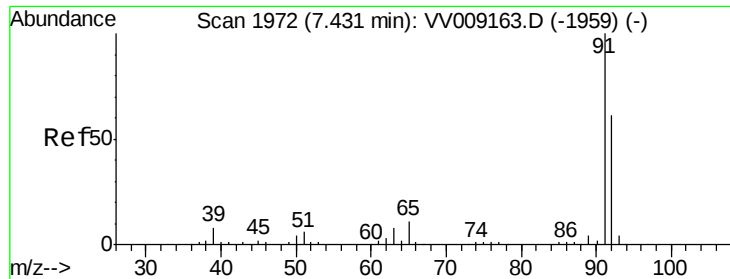
Ion Ratio Lower Upper

43 100

58 37.8 33.4 50.2

100 15.6 15.2 22.8





#44

Toluene

Concen: 5.280 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tot Ion: 91 Resp: 43274

Ion Ratio Lower Upper

91 100

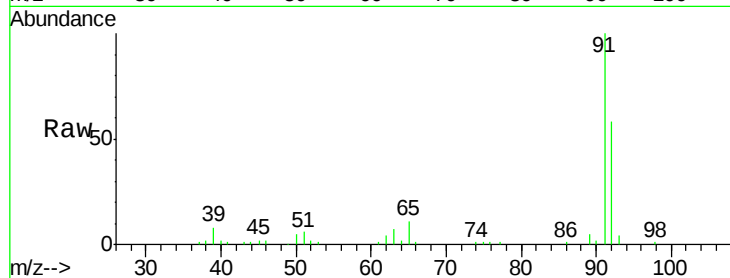
92 58.1 41.7 77.5

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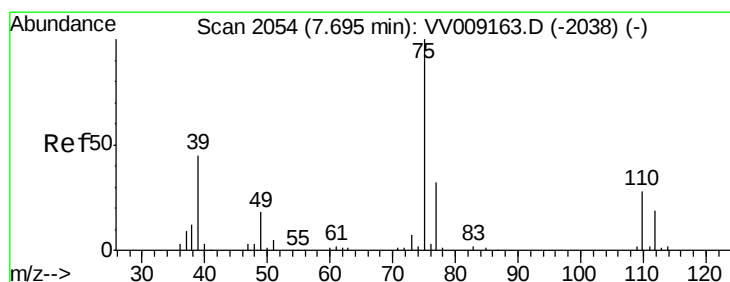
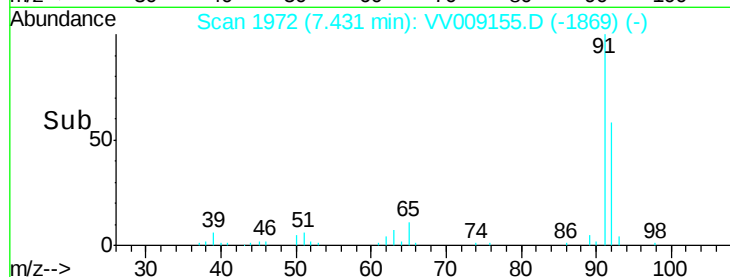
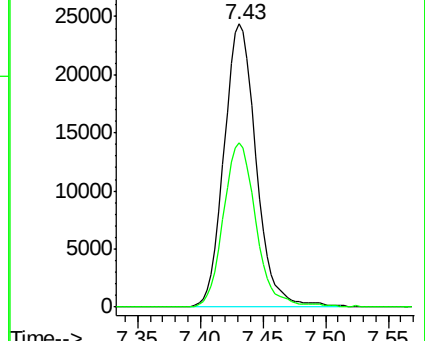
MMDadoda

1/7/2019 11:59:55 PM



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#45

trans-1,3-Dichloropropene

Concen: 5.050 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009155.D

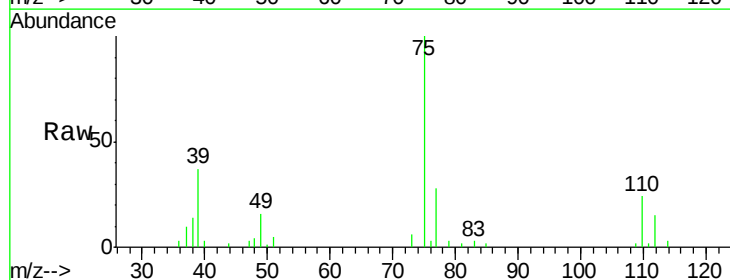
Acq: 04 Jan 2019 11:18

Tgt Ion: 75 Resp: 12837

Ion Ratio Lower Upper

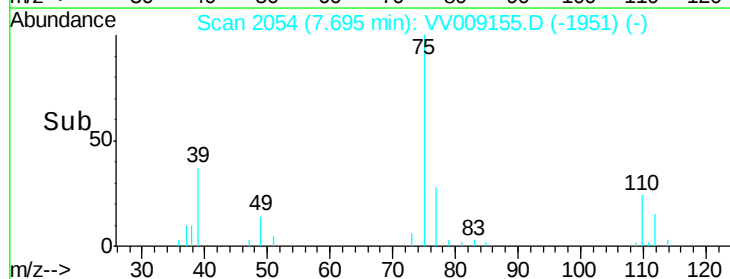
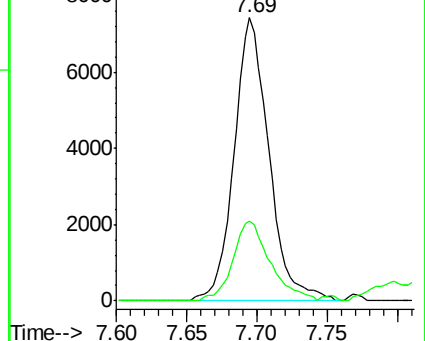
75 100

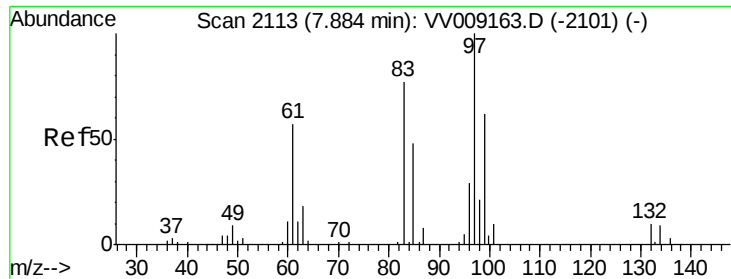
77 28.4 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





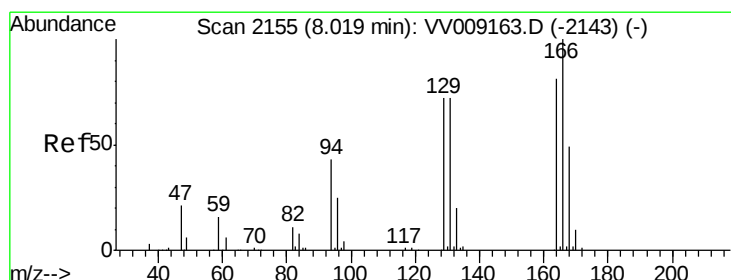
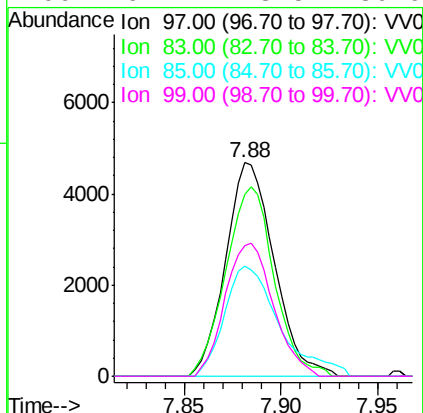
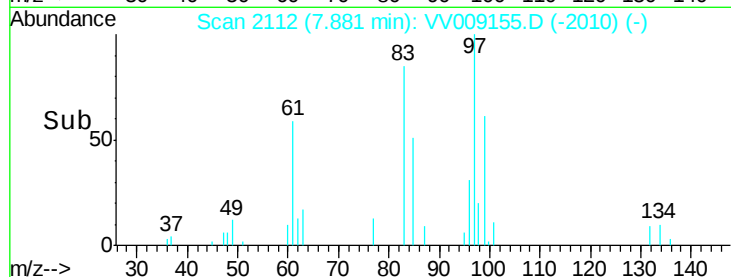
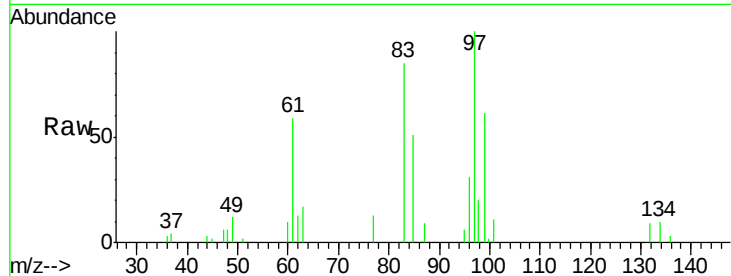
#46
1,1,2-Trichloroethane
Concen: 5.043 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

Tot Ion:	97	Resp:	8166
Ion	Ratio	Lower	Upper
97	100		
83	85.3	56.0	104.0
85	51.4	36.5	67.9
99	61.4	43.5	80.9

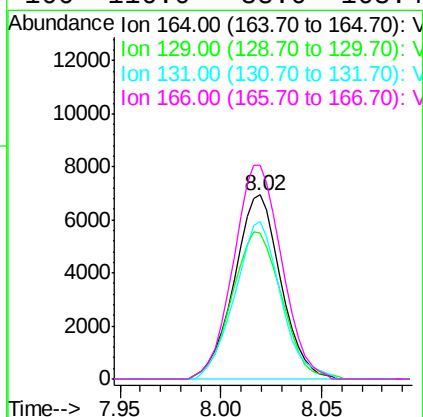
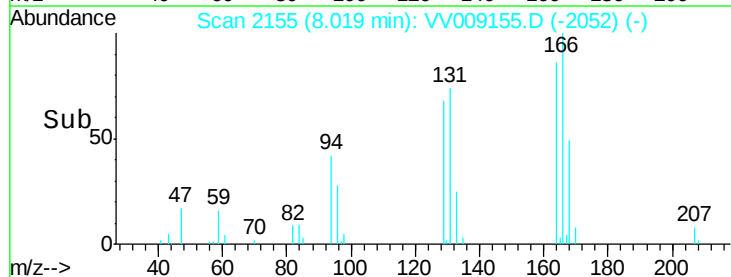
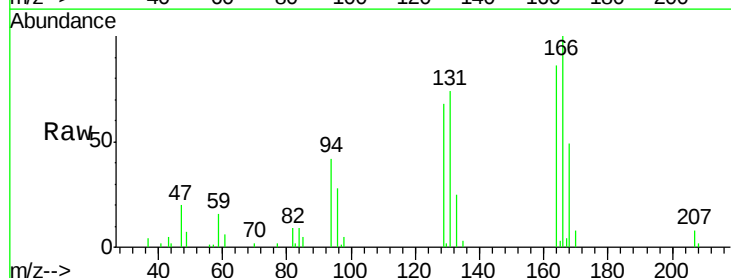
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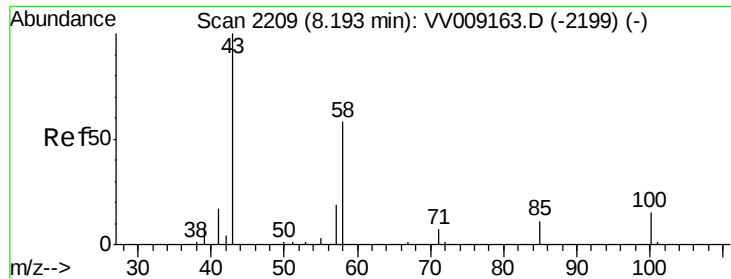
MMDadoda
1/7/2019 11:59:55 PM



#47
Tetrachloroethene
Concen: 5.916 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion:	164	Resp:	11225
Ion	Ratio	Lower	Upper
164	100		
129	79.1	63.5	117.9
131	85.3	63.2	117.4
166	116.0	88.0	163.4





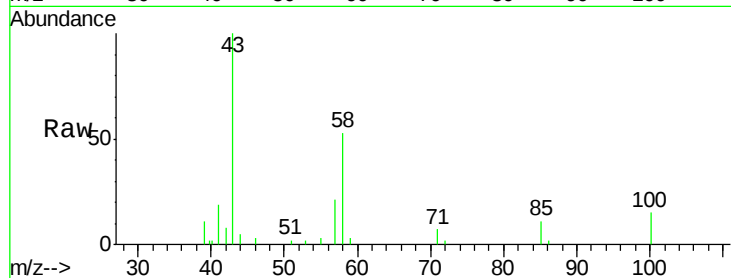
#49
2-Hexanone
Concen: 8.769 ug/L
RT: 8.20 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

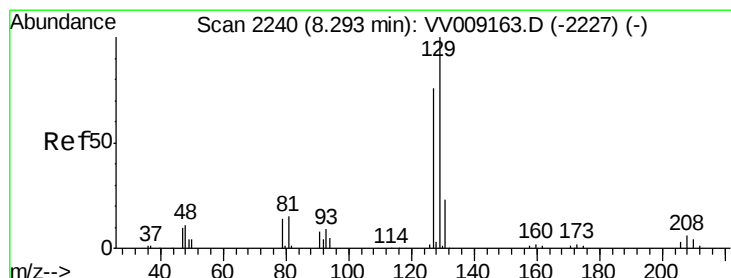
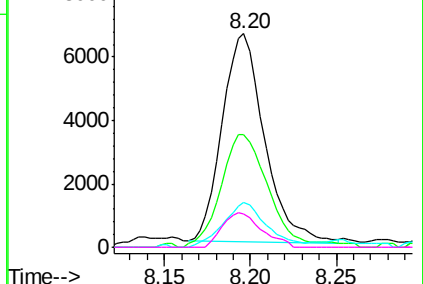
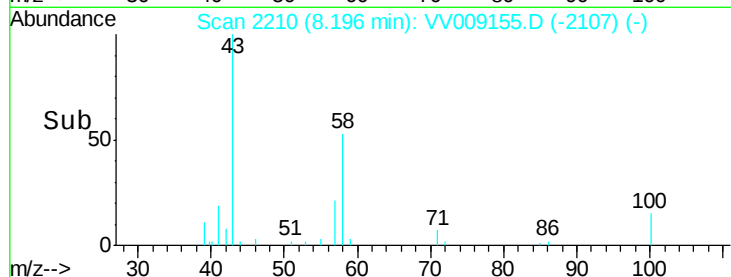
Tot Ion:	43	Resp:	11271
Ion	Ratio	Lower	Upper
43	100		
58	59.4	46.7	70.1
57	22.0	15.5	23.3
100	15.2	12.8	19.2

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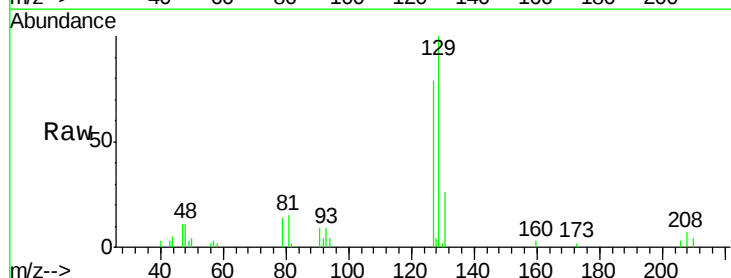


Abundance Ion 43.00 (42.70 to 43.70): VV009155.D (-2107) (-)
Ion 58.00 (57.70 to 58.70): VV009155.D (-2107) (-)
Ion 57.00 (56.70 to 57.70): VV009155.D (-2107) (-)
Ion 100.00 (99.70 to 100.70): VV009155.D (-2107) (-)

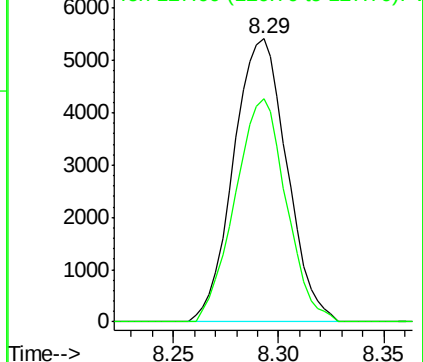
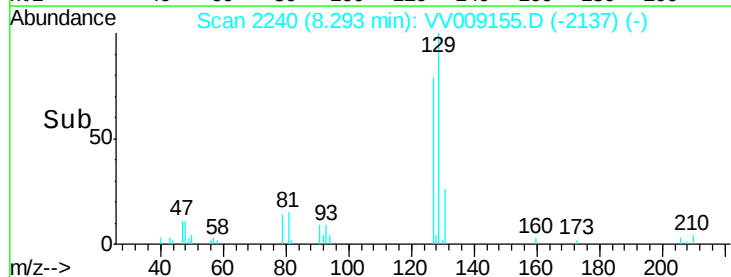


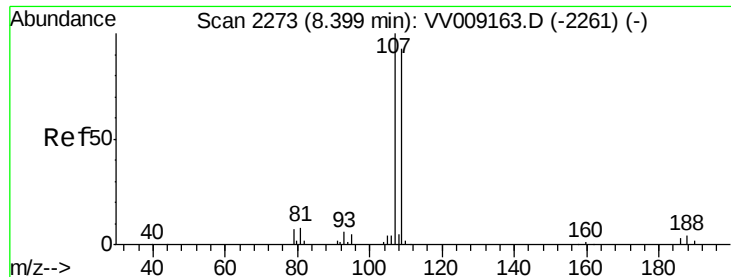
#50
Dibromochloromethane
Concen: 4.786 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion:	129	Resp:	9520
Ion	Ratio	Lower	Upper
129	100		
127	78.9	53.1	98.7



Abundance Ion 129.00 (128.70 to 129.70): VV009155.D (-2137) (-)
Ion 127.00 (126.70 to 127.70): VV009155.D (-2137) (-)





#51

1,2-Dibromoethane

Concen: 4.872 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

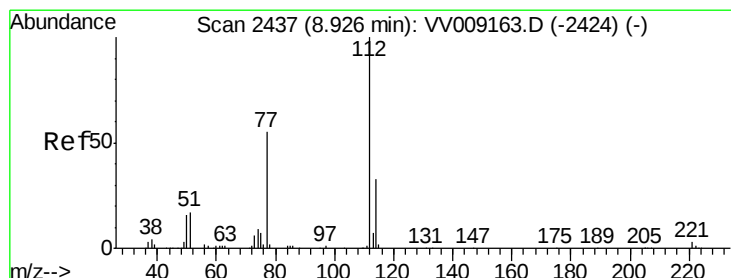
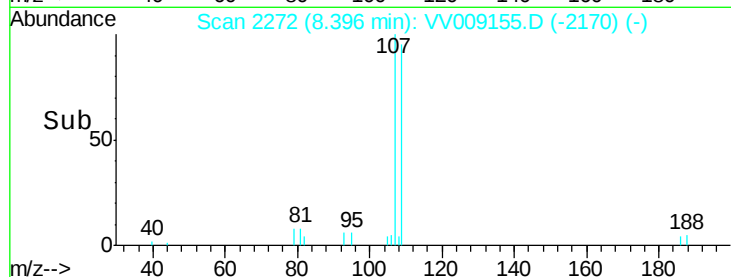
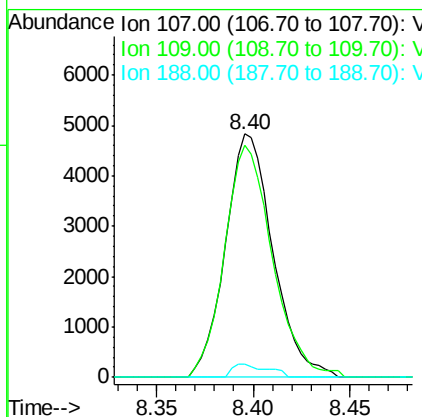
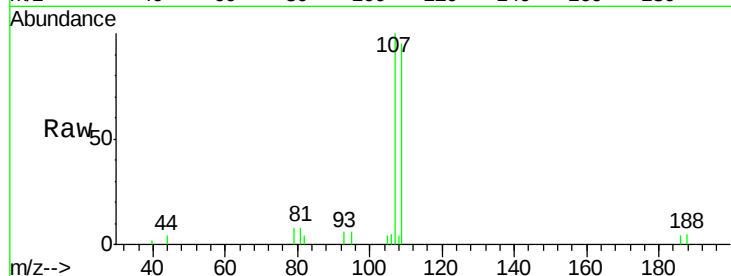
ClientSampleId :

VSTD00563

Tot Ion:	107	Resp:	8249
Ion Ratio	Lower	Upper	
107	100		
109	95.1	63.6	118.0
188	5.2	3.3	4.9#

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#52

Chlorobenzene

Concen: 5.340 ug/L

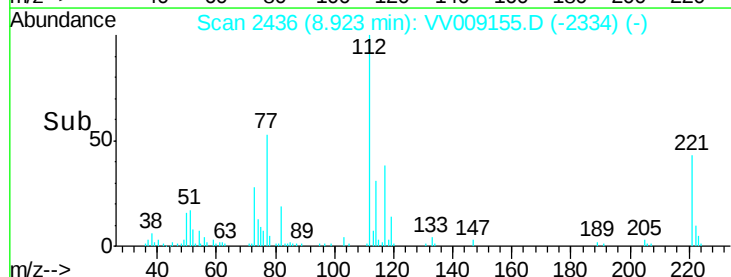
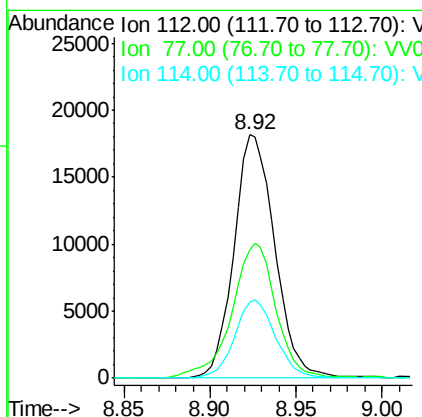
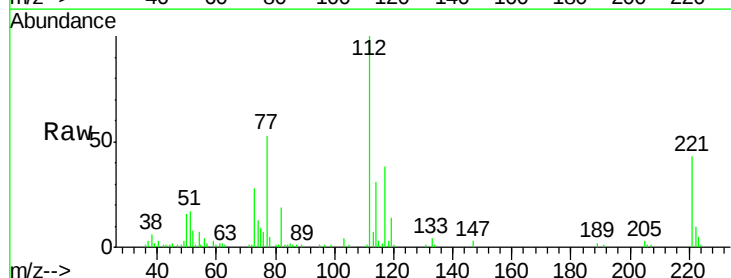
RT: 8.92 min Scan# 2436

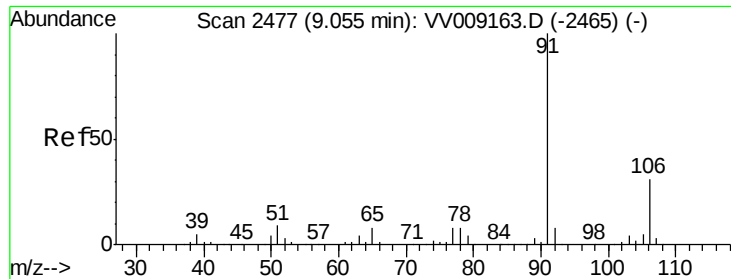
Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Tgt Ion:	112	Resp:	30030
Ion Ratio	Lower	Upper	
112	100		
77	52.8	44.6	66.8
114	31.0	22.5	41.9





#53

Ethylbenzene

Concen: 5.267 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampled :

VSTD00563

Tot Ion: 91 Resp: 48812

Ion Ratio Lower Upper

91 100

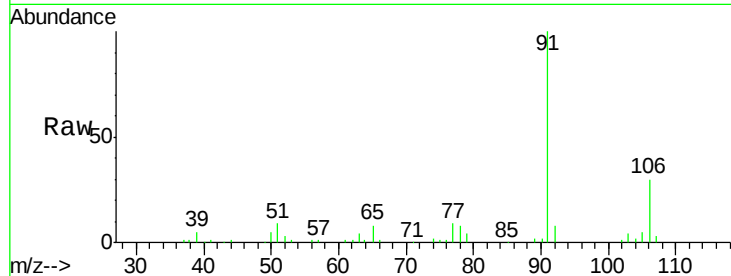
106 30.4 22.5 41.9

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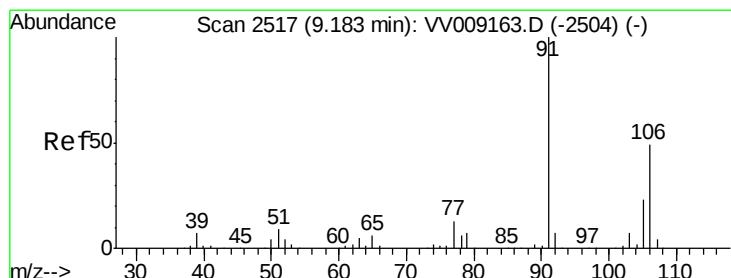
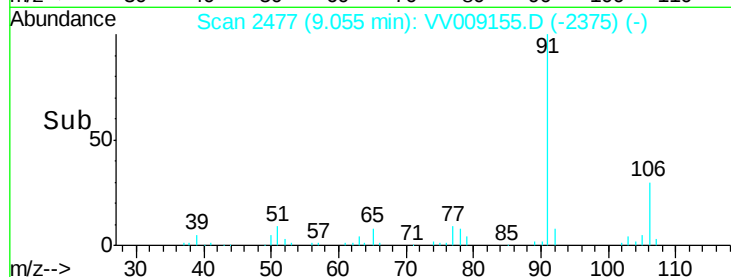
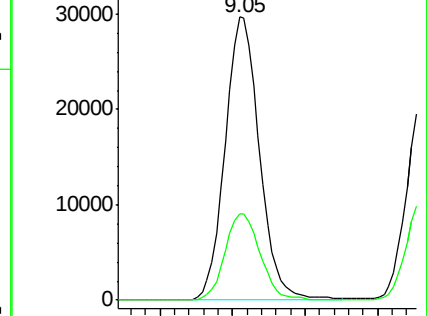
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Abundance Ion 91.00 (90.70 to 91.70): VV009163.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV009163.D (-2465) (-)



#54

m,p-Xylene

Concen: 4.994 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV009155.D

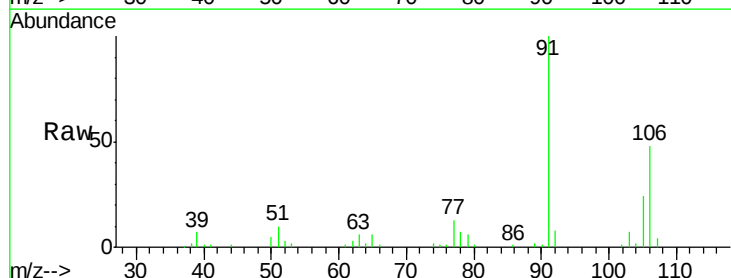
Acq: 04 Jan 2019 11:18

Tgt Ion: 106 Resp: 18034

Ion Ratio Lower Upper

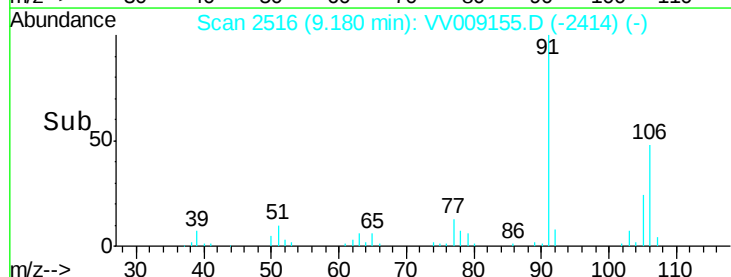
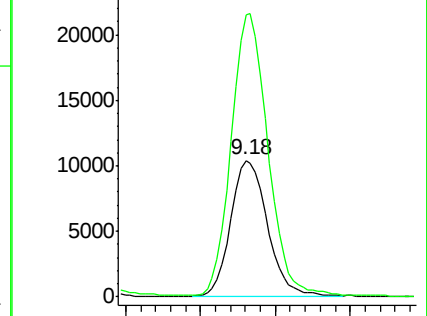
106 100

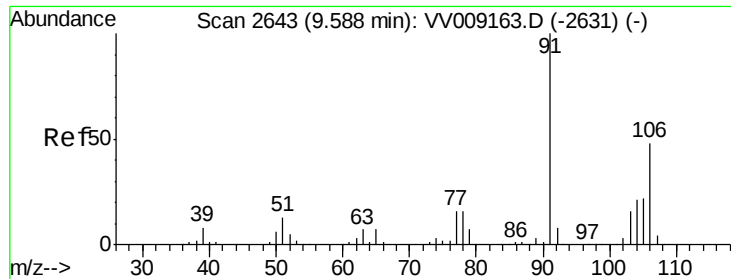
91 206.9 138.9 257.9



Abundance Ion 106.00 (105.70 to 106.70): VV009163.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV009163.D (-2504) (-)





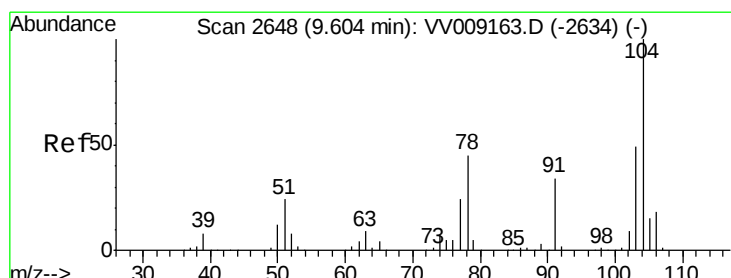
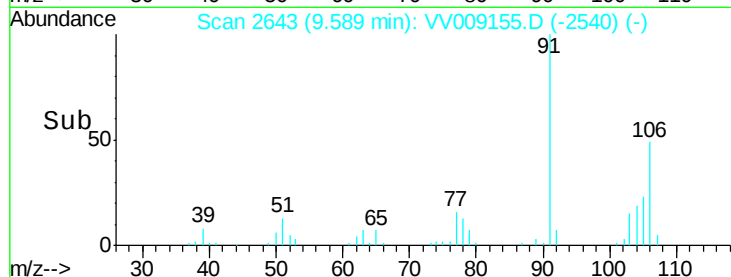
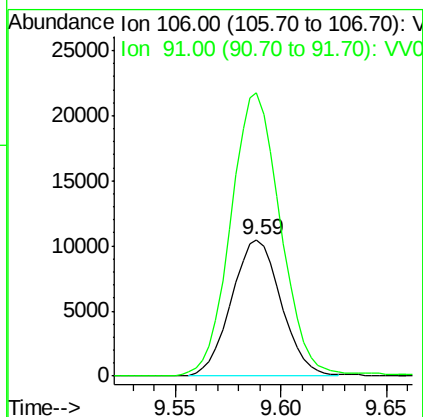
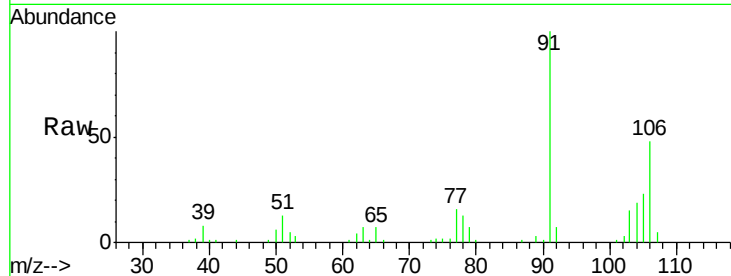
#55
o-xylene
Concen: 5.150 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

Tot Ion:106 Resp: 17196
Ion Ratio Lower Upper
106 100
91 207.1 148.7 276.1

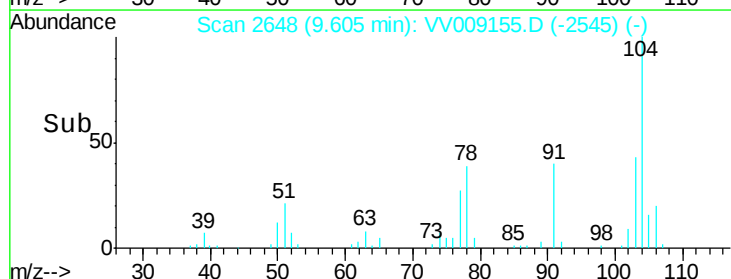
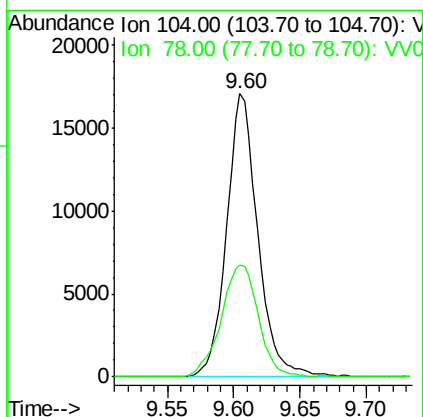
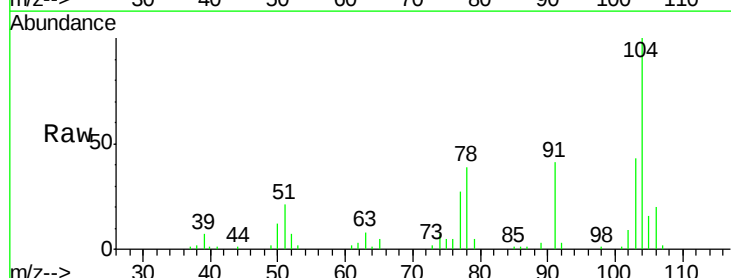
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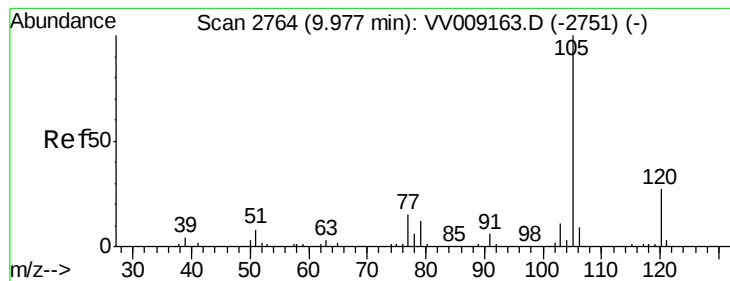
MMDadoda
1/7/2019 11:59:55 PM



#56
Styrene
Concen: 4.950 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion:104 Resp: 27874
Ion Ratio Lower Upper
104 100
78 39.3 31.6 58.8





#57

Isopropylbenzene

Concen: 5.159 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

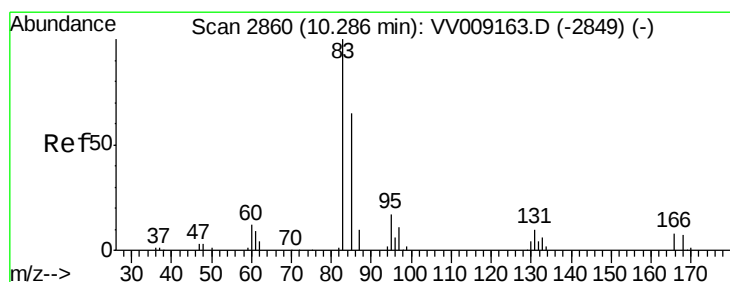
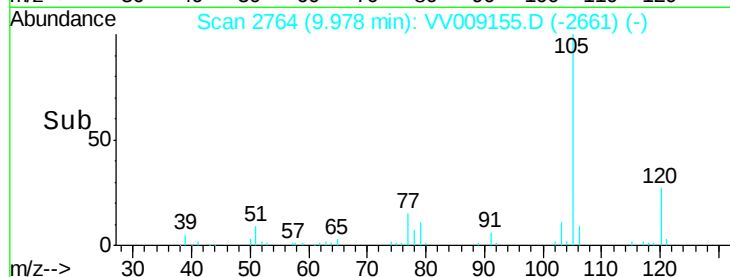
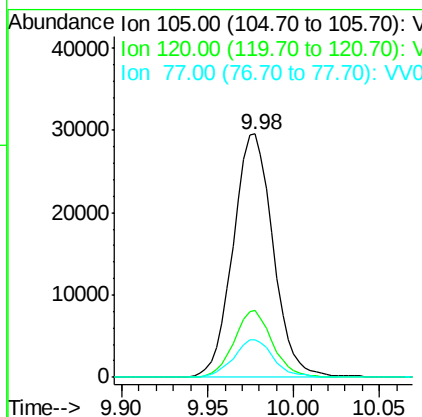
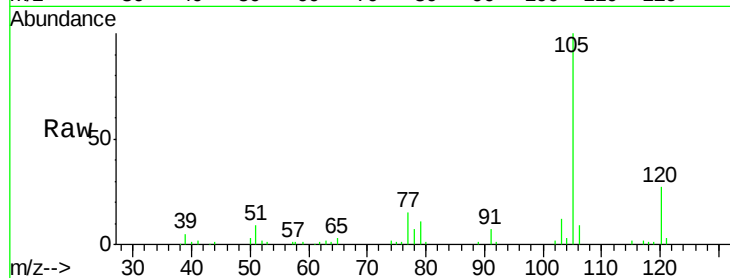
ClientSampleId :

VSTD00563

Tot Ion:	105	Resp:	47794
Ion Ratio	Lower	Upper	
105	100		
120	26.2	21.9	32.9
77	15.4	12.1	18.1

Manual Integrations
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1/7/2019 11:59:55 PM



#58

1,1,2,2-Tetrachloroethane

Concen: 4.963 ug/L

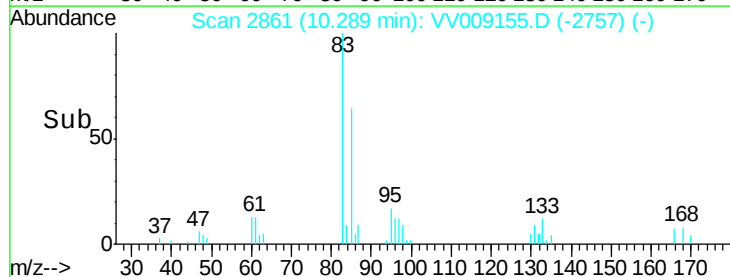
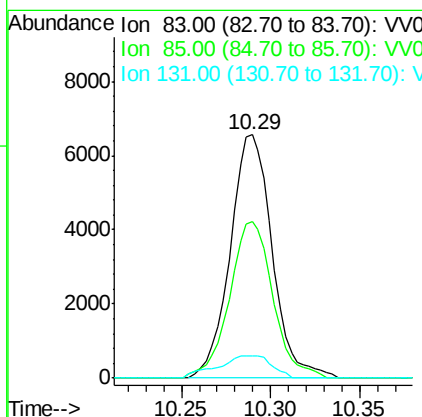
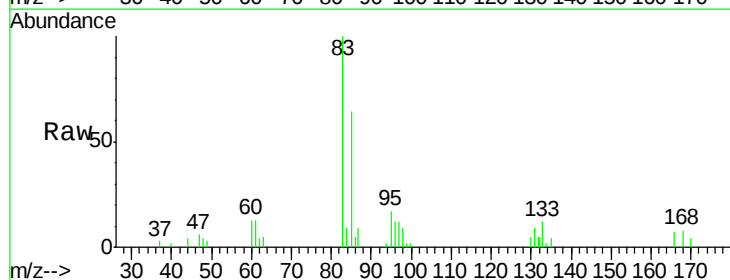
RT: 10.29 min Scan# 2861

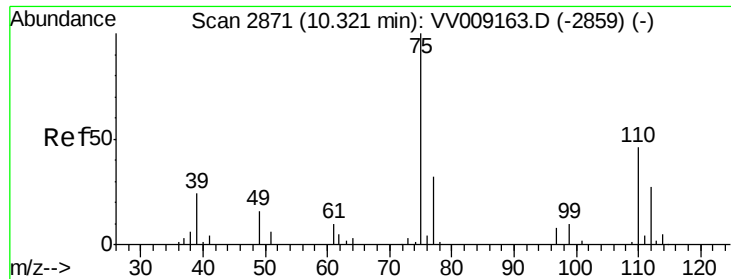
Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Tgt Ion:	83	Resp:	10768
Ion Ratio	Lower	Upper	
83	100		
85	64.3	45.4	84.2
131	14.0	9.4	14.0





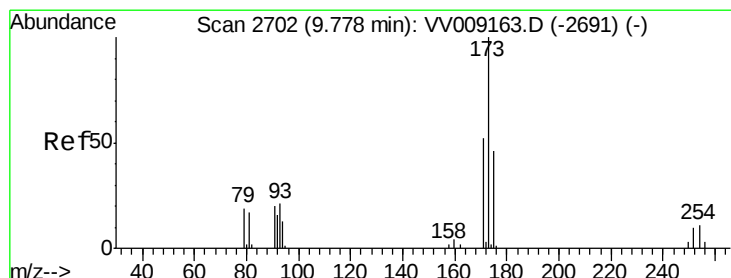
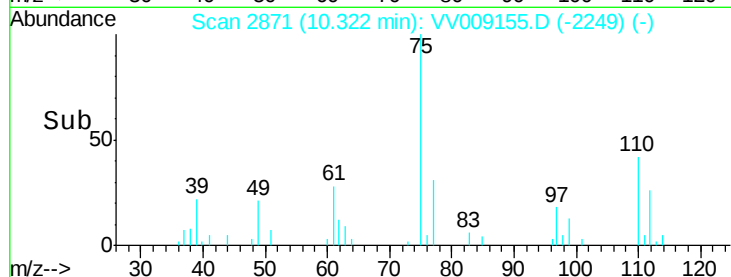
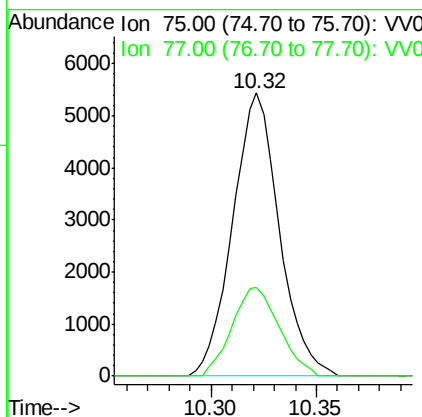
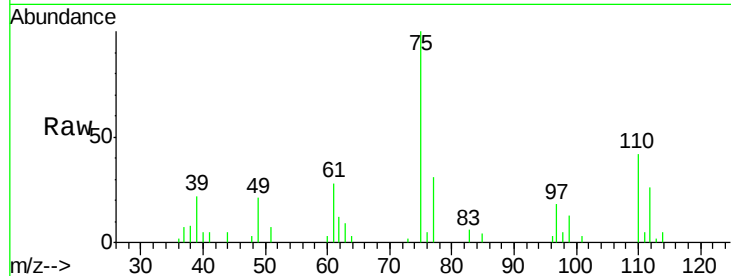
#59
 1,2,3-Trichloropropane
 Concen: 4.813 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tot Ion: 75 Resp: 8346
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.0 37.6

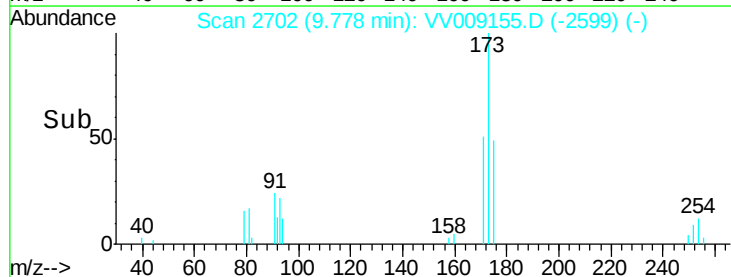
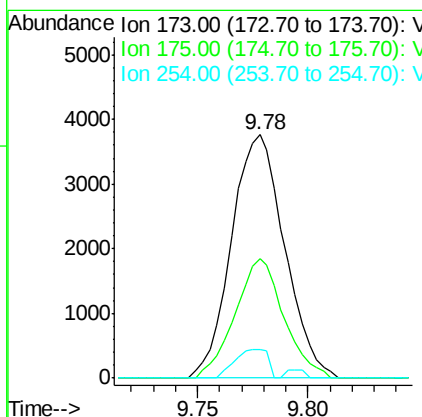
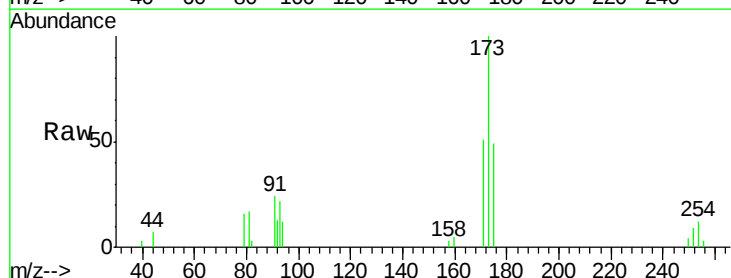
Manual Integrations
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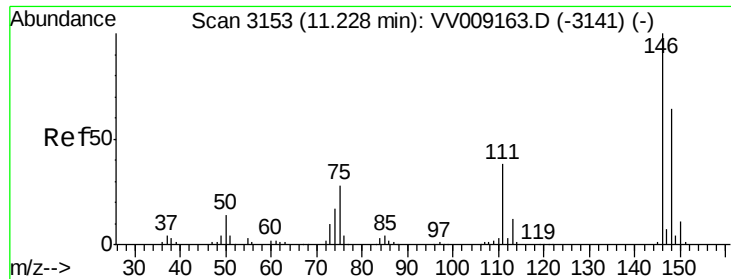
MMDadoda
 1/7/2019 11:59:55 PM



#62
 Bromoform
 Concen: 5.056 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion: 173 Resp: 6292
 Ion Ratio Lower Upper
 173 100
 175 45.2 38.4 57.6
 254 7.4 8.0 12.0#





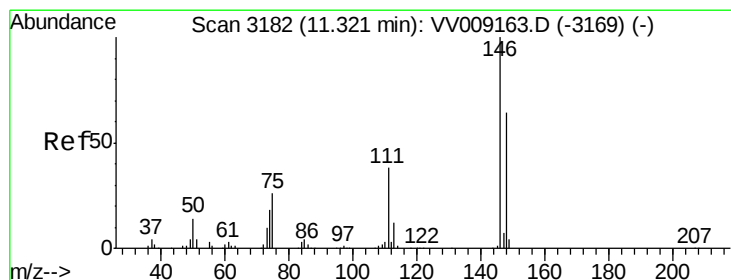
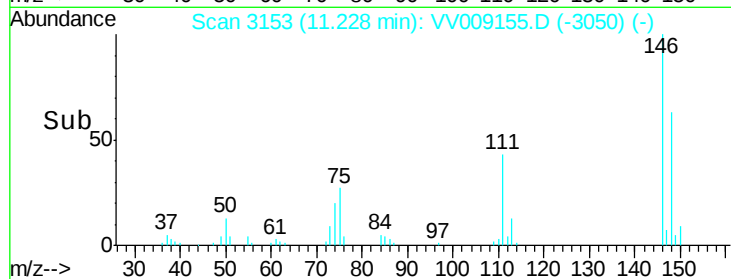
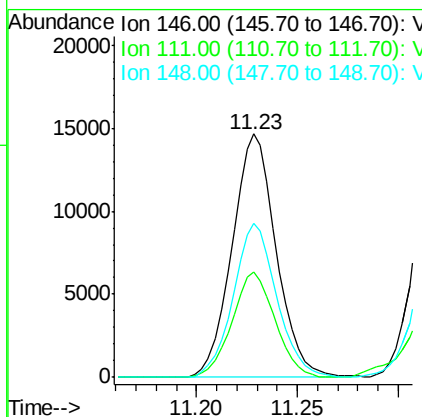
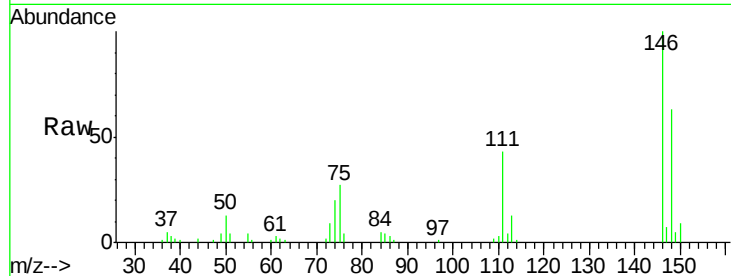
#63
 1,3-Dichlorobenzene
 Concen: 5.034 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.0	28.0	52.0
148	63.0	45.6	84.8

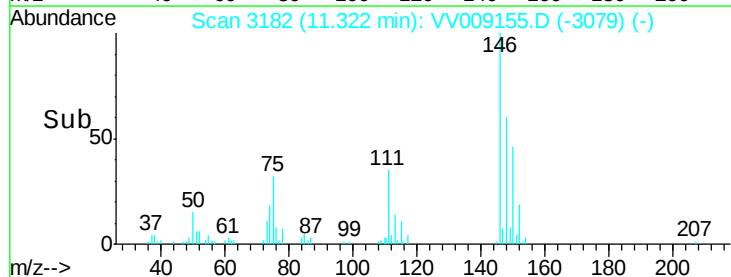
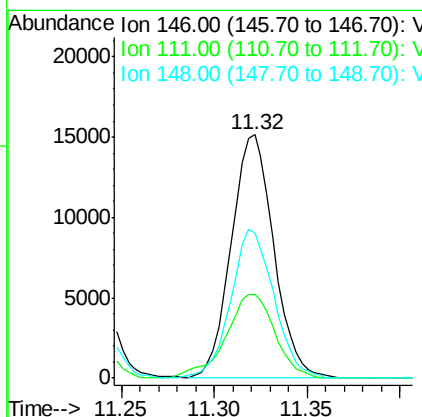
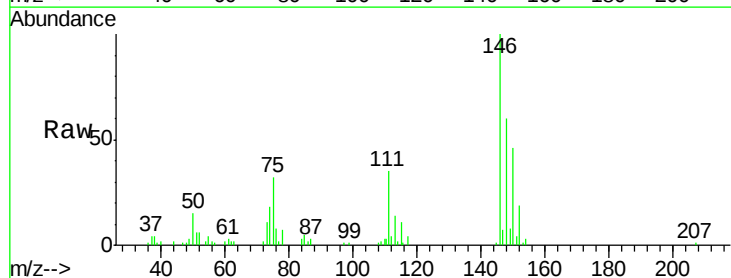
Manual Integrations
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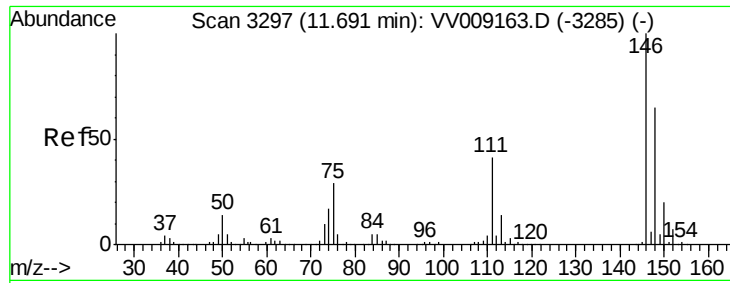
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#64
 1,4-Dichlorobenzene
 Concen: 5.222 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.5	26.0	48.4
148	59.6	43.4	80.6





#65

1,2-Dichlorobenzene

Concen: 5.168 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

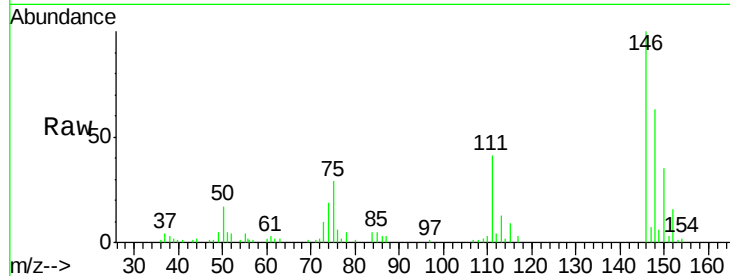
ClientSampled :

VSTD00563

Tot Ion:	146	Resp:	21855
Ion Ratio	Lower	Upper	
146	100		
111	40.8	32.2	48.4
148	63.4	50.4	75.6

Manual Integrations
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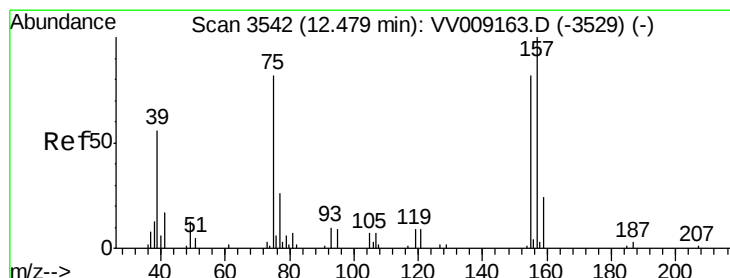
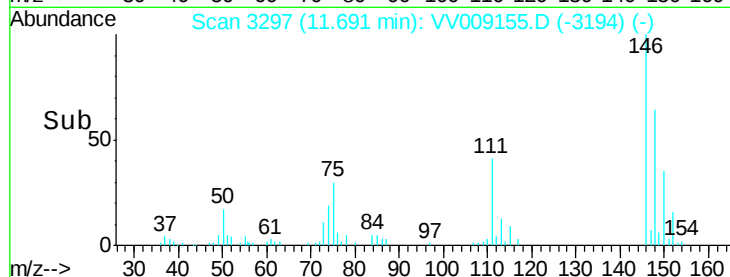
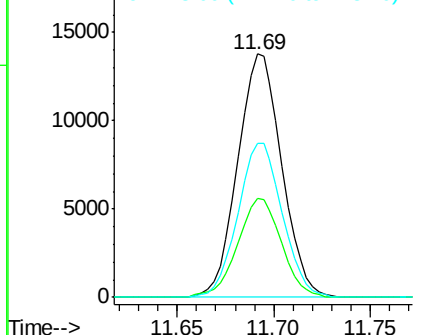
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.920 ug/L

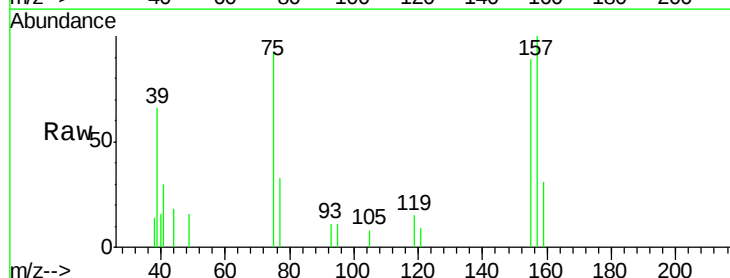
RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

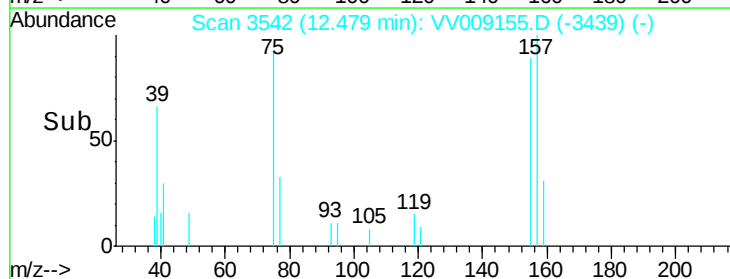
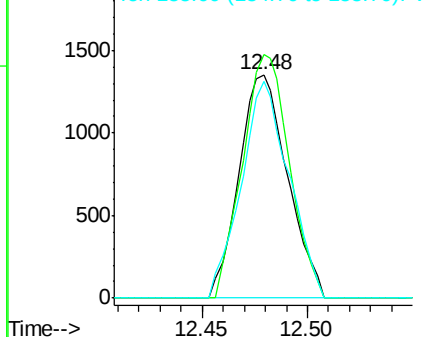
Tgt Ion:	75	Resp:	2160
Ion Ratio	Lower	Upper	
75	100		
157	108.9	96.9	145.3
155	97.0	68.0	102.0

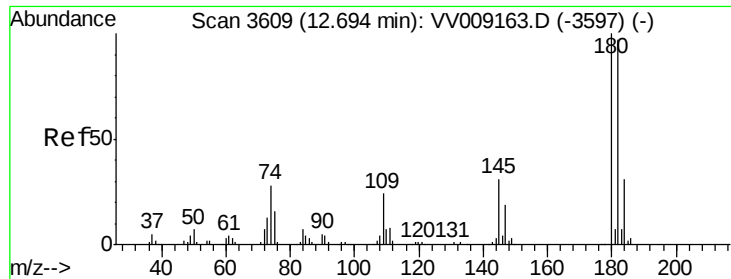


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V





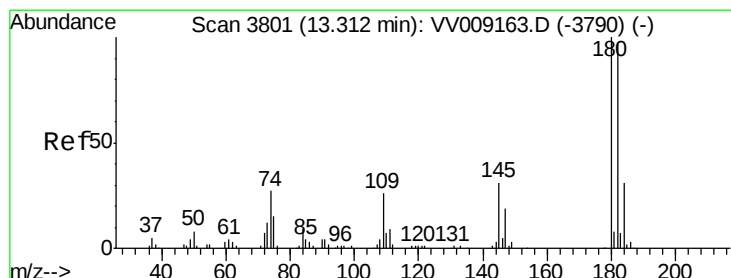
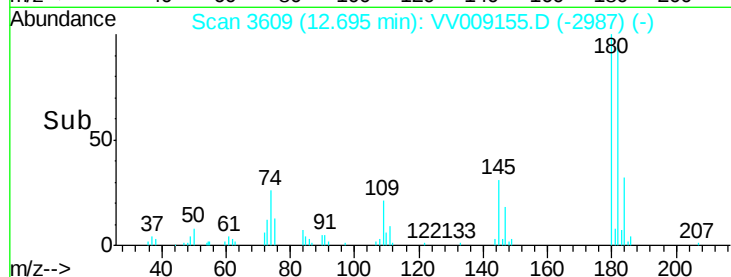
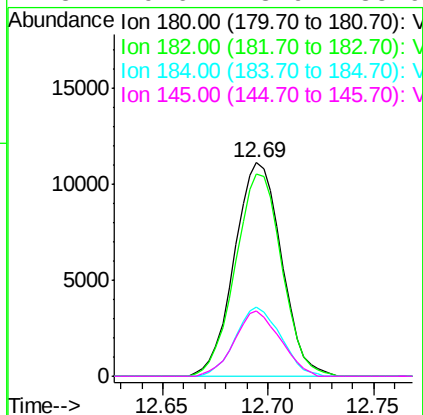
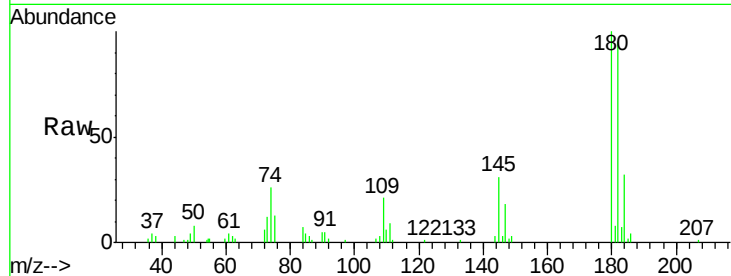
#67
 1,3,5-Trichlorobenzene
 Concen: 4.818 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.5	75.3	112.9
184	31.3	24.6	37.0
145	29.6	23.9	35.9

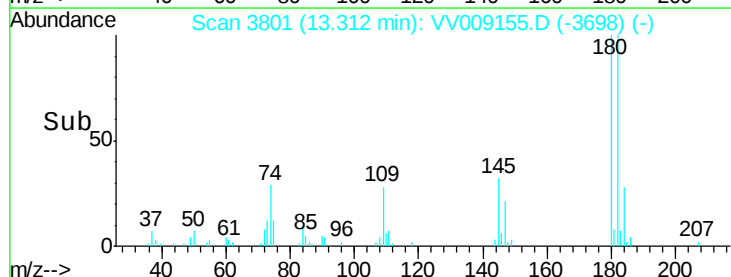
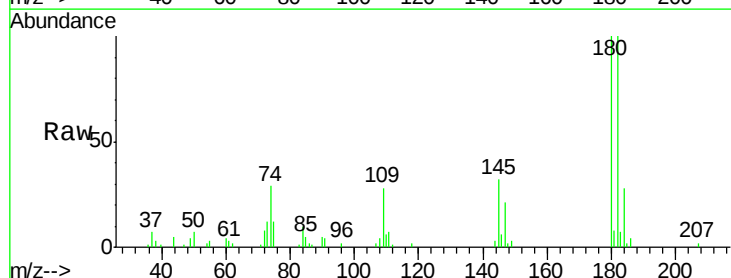
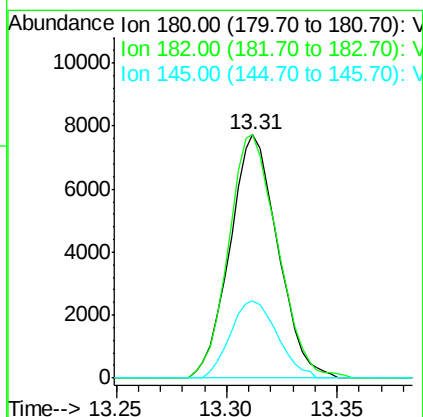
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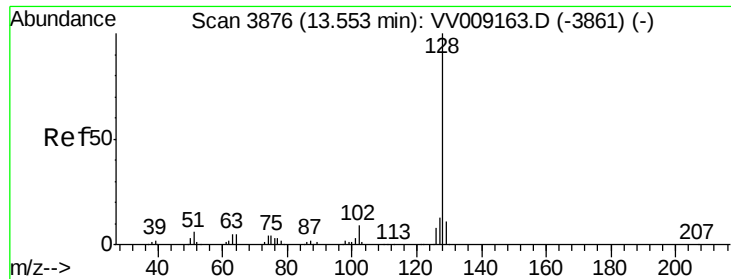
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#68
 1,2,4-trichlorobenzene
 Concen: 4.000 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.6	76.2	114.4
145	31.1	25.4	38.0





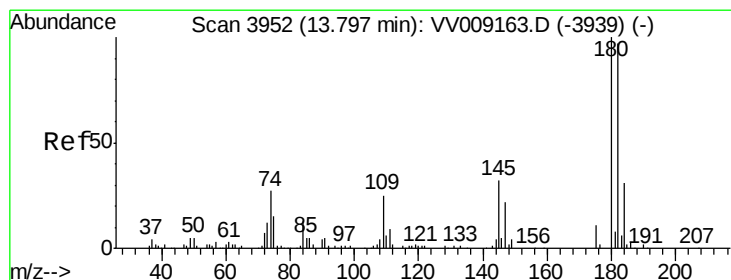
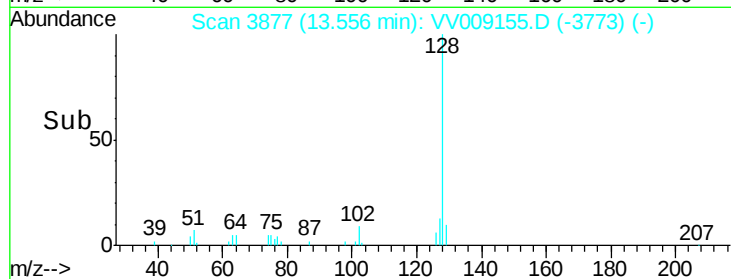
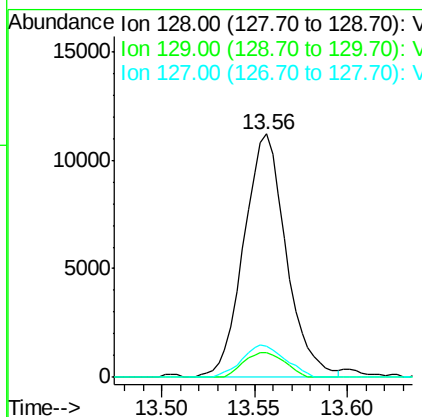
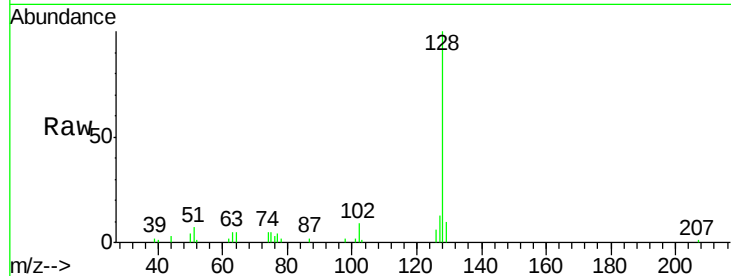
#69
Naphthalene
Concen: 3.015 ug/L
RT: 13.56 min Scan# 3877
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

Tot Ion:	128	Resp:	17895
Ion Ratio	Lower	Upper	
128	100		
129	10.0	9.0	13.4
127	13.5	10.4	15.6

Manual Integrations
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#70
1,2,3-Trichlorobenzene
Concen: 3.912 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion:	180	Resp:	10462
Ion Ratio	Lower	Upper	
180	100		
182	93.2	74.4	111.6
145	34.3	25.7	38.5

