

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV093019\
 Data File : VV013020.D
 Acq On : 30 Sep 2019 16:18
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 3:10:22 PM

Quant Time: Oct 02 08:46:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Sep 30 15:00:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	757177	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	755744	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	392201	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	260014	24.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.00%
7) Chloroethane-d5	1.58	69	222275	24.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.88%
11) 1,1-Dichloroethene-d2	2.13	63	346232	18.56	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	74.24%
21) 2-Butanone-d5	3.93	46	185137	48.41	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.82%
24) Chloroform-d	4.40	84	476831	23.38	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.52%
26) 1,2-Dichloroethane-d4	5.08	65	282166	24.32	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.28%
32) Benzene-d6	5.10	84	1006996	24.16	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.64%
36) 1,2-Dichloropropane-d6	6.11	67	322522	24.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.72%
41) Toluene-d8	7.36	98	913416	23.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.96%
43) trans-1,3-Dichloropropene-	7.66	79	130447	23.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.16%
47) 2-Hexanone-d5	8.13	63	132678	48.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.32%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	284807	23.30	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.20%
66) 1,2-Dichlorobenzene-d4	11.67	152	381912	25.25	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	13042	1.608 ug/L	98
3) Chloromethane	1.25	50	19722	1.909 ug/L	99
5) Vinyl chloride	1.32	62	19457	1.828 ug/L #	72
6) Bromomethane	1.53	94	12841	1.878 ug/L	99
8) Chloroethane	1.60	64	13146	1.954 ug/L	98
9) Trichlorofluoromethane	1.77	101	28680	1.990 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	20553	2.225 ug/L	90
12) 1,1-Dichloroethene	2.14	96	19475	2.244 ug/L #	1
13) Acetone	2.19	43	20096	4.985 ug/L	99
14) Carbon disulfide	2.32	76	49437	1.856 ug/L	100
15) Methyl Acetate	2.46	43	11805	1.898 ug/L	99
16) Methylene chloride	2.53	84	37544	3.027 ug/L	91
17) trans-1,2-Dichloroethene	2.79	96	20374	1.992 ug/L	99
18) Methyl tert-butyl Ether	2.80	73	49230	1.913 ug/L	99
19) 1,1-Dichloroethane	3.23	63	37048	1.973 ug/L	97
20) cis-1,2-Dichloroethene	3.96	96	21854	1.921 ug/L	89
22) 2-Butanone	4.03	43	16445m	3.722 ug/L	

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Quant Time: Oct 02 08:46:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Sep 30 15:00:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	11009	1.974	ug/L	98
25) Chloroform	4.42	83	44967	2.297	ug/L	95
27) 1,2-Dichloroethane	5.18	62	27913	2.075	ug/L	99
29) Cyclohexane	4.72	56	28213	1.696	ug/L	97
30) 1,1,1-Trichloroethane	4.66	97	28934	1.874	ug/L	97
31) Carbon tetrachloride	4.87	117	25979	1.870	ug/L	98
33) Benzene	5.15	78	85859	1.987	ug/L	100
34) Trichloroethene	5.96	95	23284	1.989	ug/L	97
35) Methylcyclohexane	6.18	83	31873	1.735	ug/L	98
37) 1,2-Dichloropropane	6.22	63	20948	1.889	ug/L #	93
38) Bromodichloromethane	6.55	83	27512	1.901	ug/L	95
39) cis-1,3-Dichloropropene	7.07	75	31612	1.894	ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	32560	3.675	ug/L	97
42) Toluene	7.43	91	93805	2.041	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	26002m	1.897	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	17927	1.906	ug/L	94
46) Tetrachloroethene	8.02	164	18642	1.925	ug/L	98
48) 2-Hexanone	8.18	43	25275	3.918	ug/L	95
49) Dibromochloromethane	8.29	129	20475	1.909	ug/L	95
50) 1,2-Dibromoethane	8.40	107	18074	1.948	ug/L #	97
51) Chlorobenzene	8.92	112	63439	2.035	ug/L	97
52) Ethylbenzene	9.05	91	92137	1.825	ug/L	98
53) m,p-Xylene	9.18	106	34484	1.787	ug/L	96
54) o-Xylene	9.59	106	32245	1.747	ug/L	94
55) Styrene	9.60	104	51391	1.590	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.28	83	23524	2.051	ug/L #	98
59) Bromoform	9.77	173	12846	1.912	ug/L	98
60) Isopropylbenzene	9.97	105	81778	1.730	ug/L	99
61) 1,2,3-Trichloropropane	10.31	75	18237	2.043	ug/L	99
62) 1,3,5-Trimethylbenzene	10.58	105	61398	1.612	ug/L	97
63) 1,2,4-Trimethylbenzene	10.95	105	61475	1.607	ug/L	100
64) 1,3-Dichlorobenzene	11.22	146	50968	2.054	ug/L	97
65) 1,4-Dichlorobenzene	11.31	146	53679	2.060	ug/L	96
67) 1,2-Dichlorobenzene	11.69	146	50740	2.142	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.47	75	3866	1.997	ug/L	96
69) 1,3,5-Trichlorobenzene	12.69	180	39372	1.971	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	32206	1.865	ug/L	97
71) Naphthalene	13.55	128	54652	1.624	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	31493	1.890	ug/L	98

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

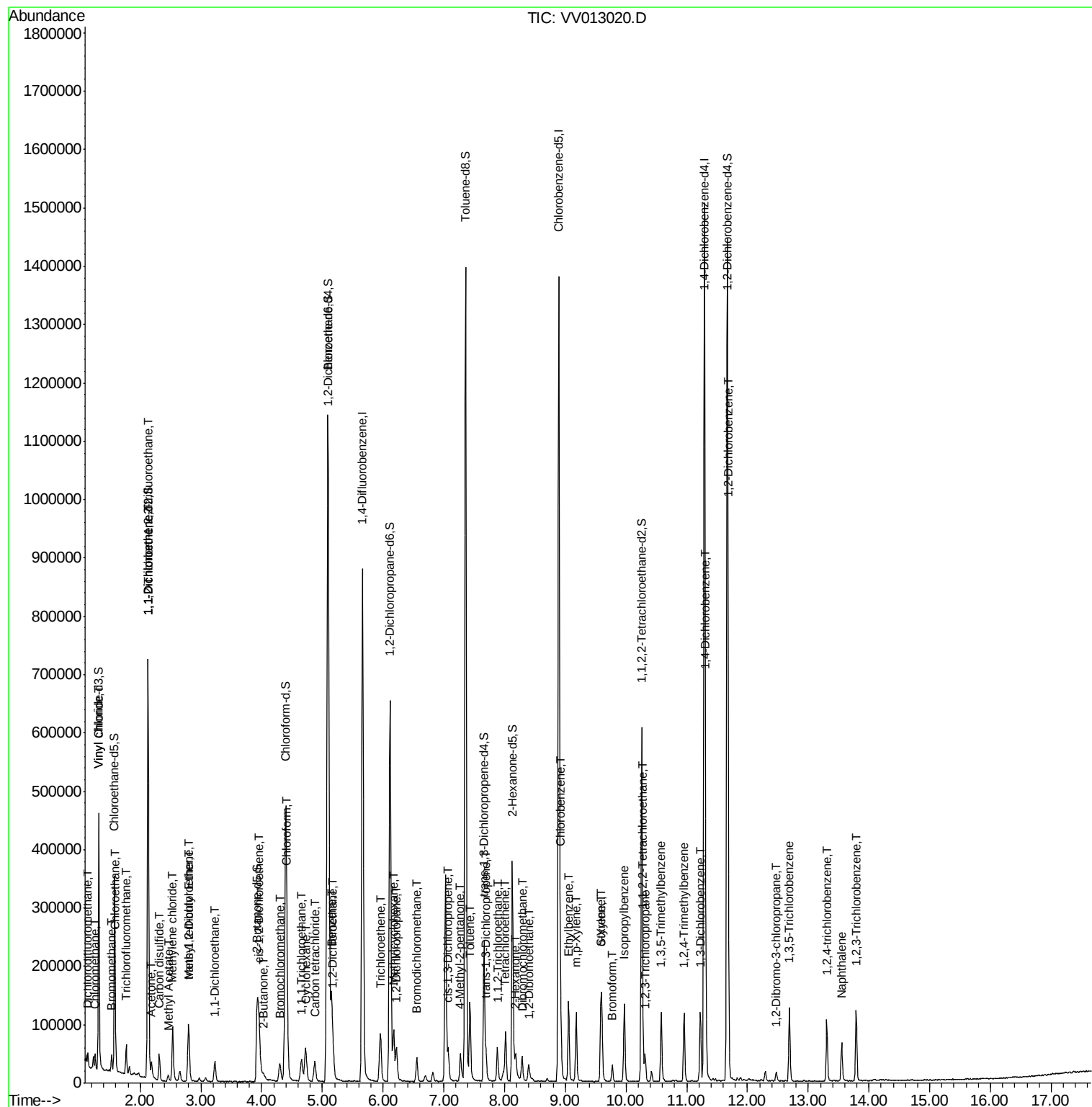
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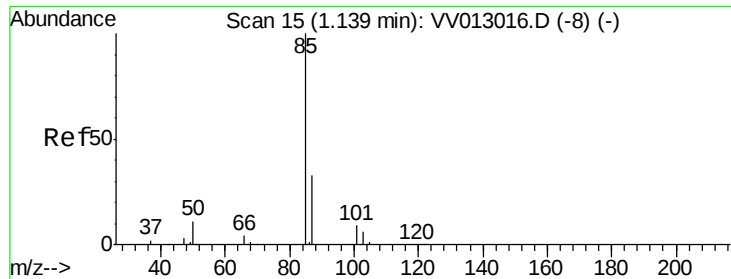
Instrument :
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 ClientSampleId :
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#2

Dichlorodifluoromethane

Concen: 1.608 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 85 Resp: 13042

Ion Ratio Lower Upper

85 100

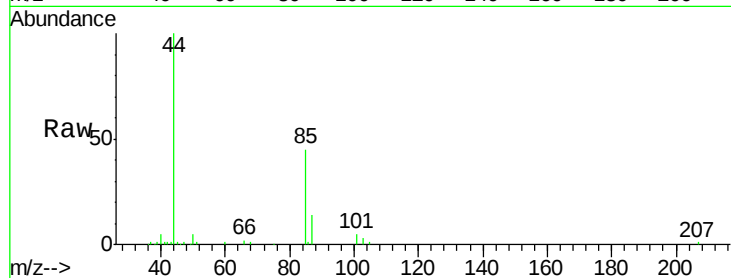
87 31.1 25.7 38.5

Manual Integrations

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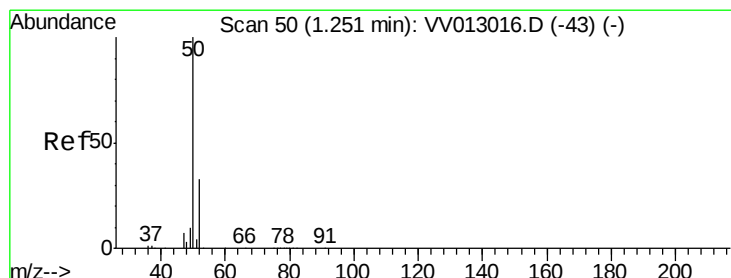
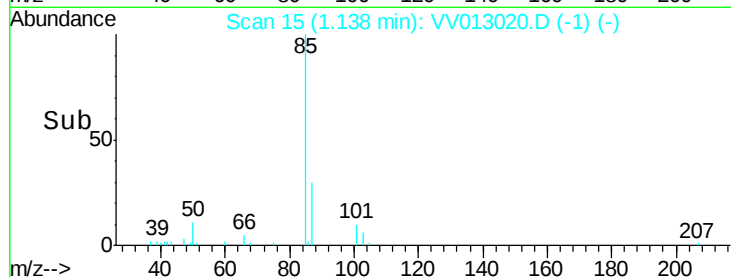
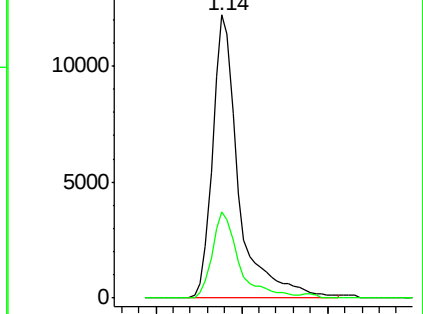
MMDadoda

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Abundance Ion 85.00 (84.70 to 85.70): VV013020.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV013020.D (-1) (-)



#3

Chloromethane

Concen: 1.909 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV013020.D

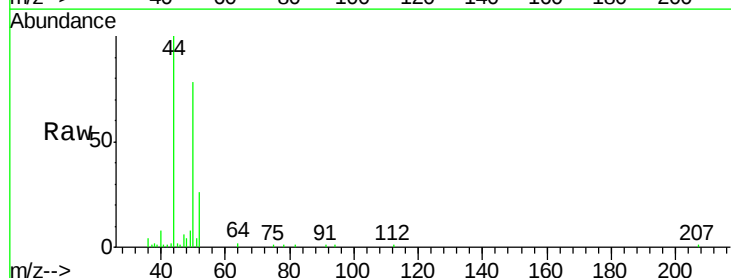
Acq: 30 Sep 2019 16:18

Tgt Ion: 50 Resp: 19722

Ion Ratio Lower Upper

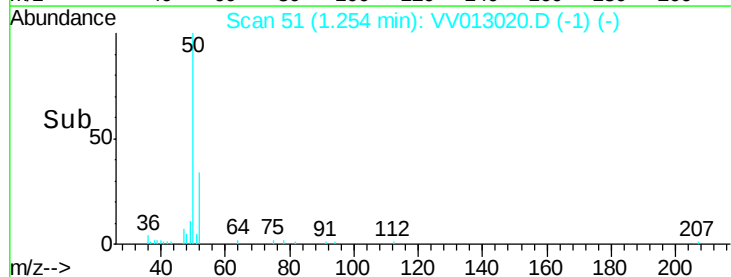
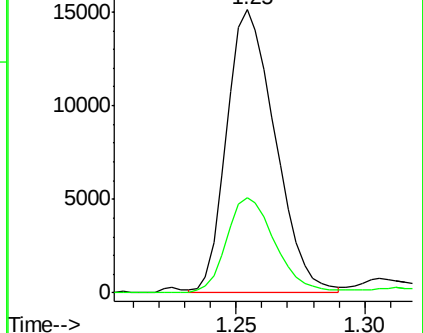
50 100

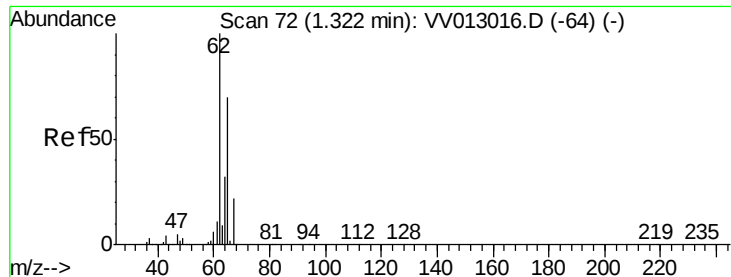
52 33.8 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV013020.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV013020.D (-1) (-)





#5

Vinyl chloride

Concen: 1.828 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 62 Resp: 19457

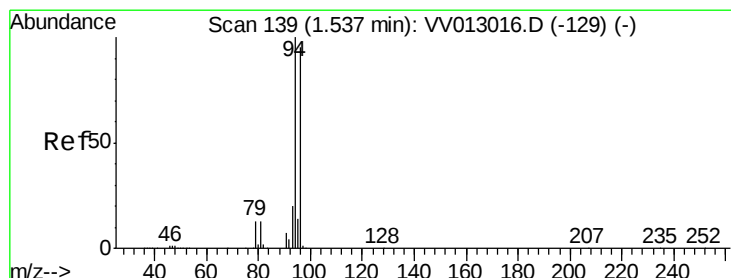
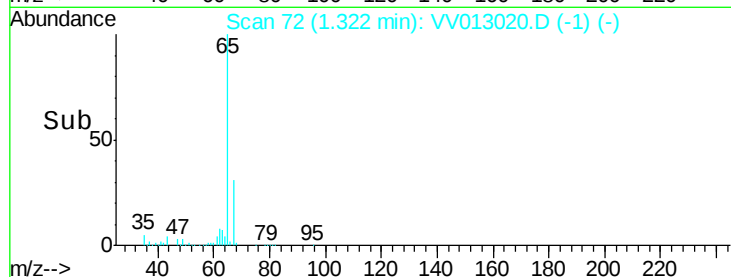
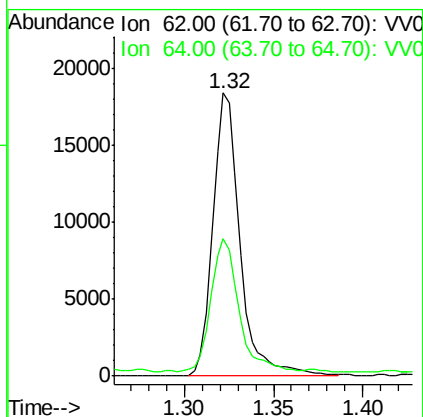
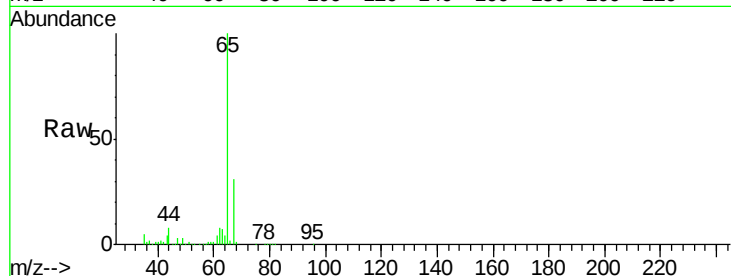
Ion Ratio Lower Upper

62 100

64 48.6 23.1 42.9#

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#6

Bromomethane

Concen: 1.878 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV013020.D

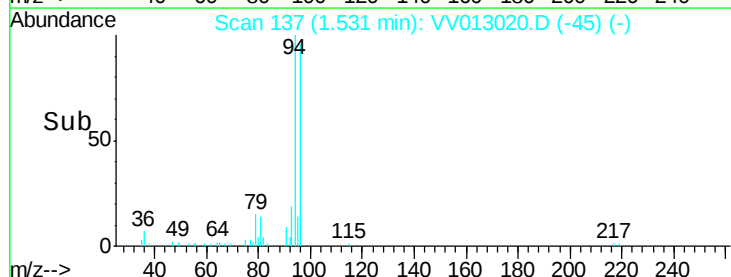
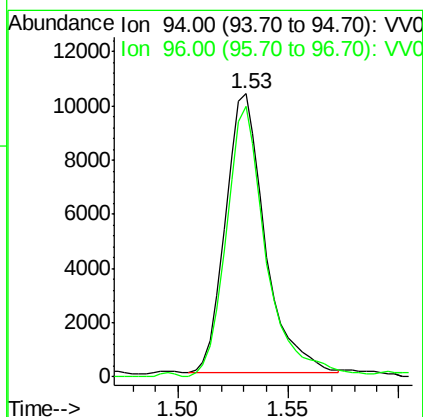
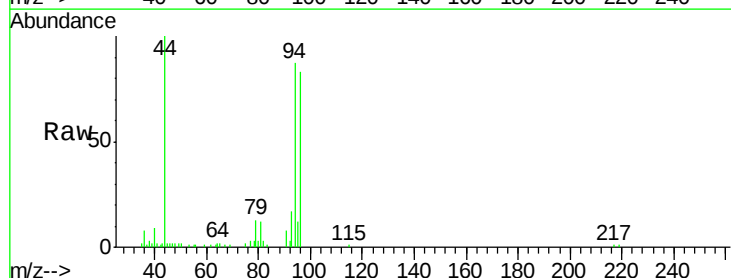
Acq: 30 Sep 2019 16:18

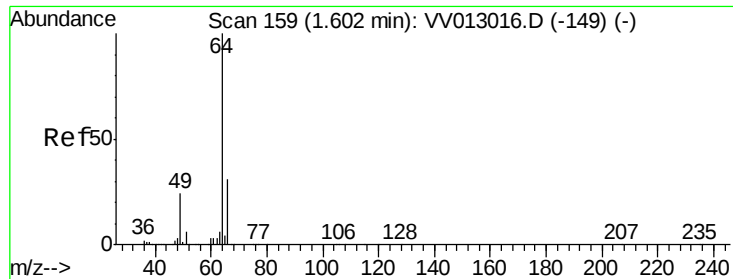
Tgt Ion: 94 Resp: 12841

Ion Ratio Lower Upper

94 100

96 95.7 67.4 125.2





#8

Chloroethane

Concen: 1.954 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 64 Resp: 13146

Ion Ratio Lower Upper

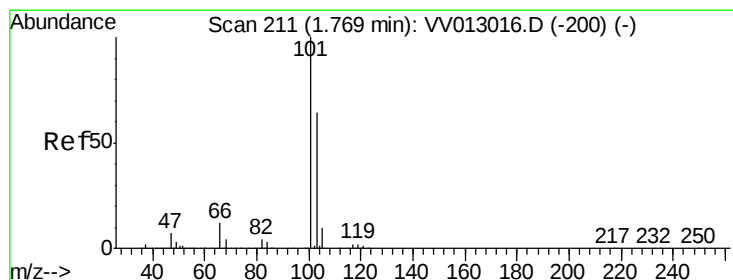
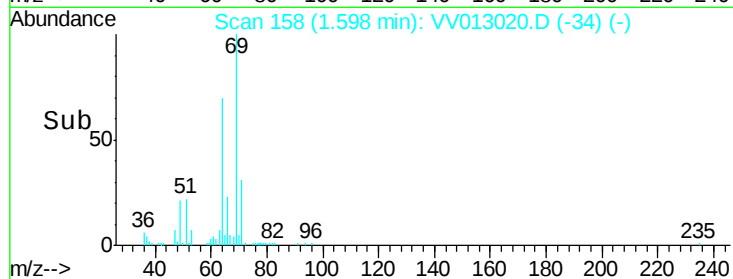
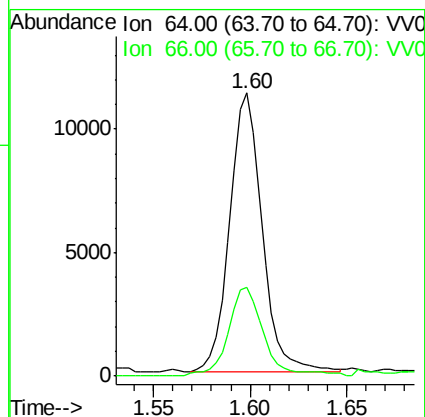
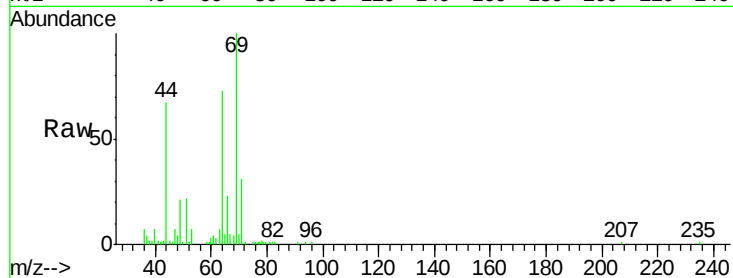
64 100

66 31.2 22.8 42.4

Manual Integrations
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#9

Trichlorofluoromethane

Concen: 1.990 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013020.D

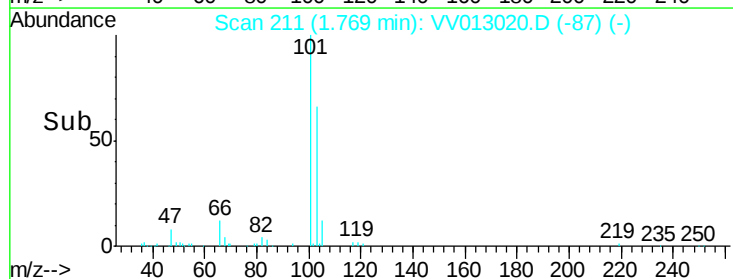
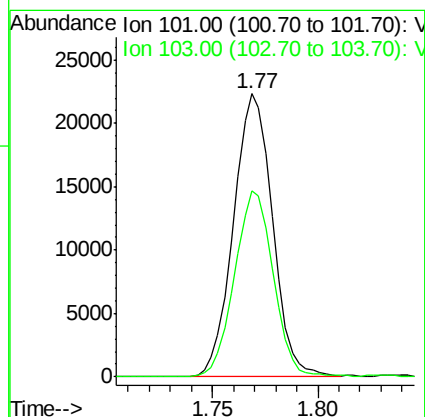
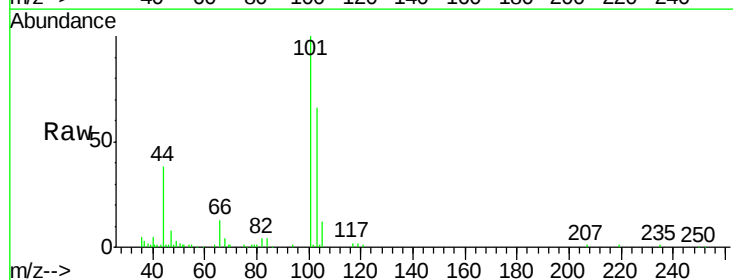
Acq: 30 Sep 2019 16:18

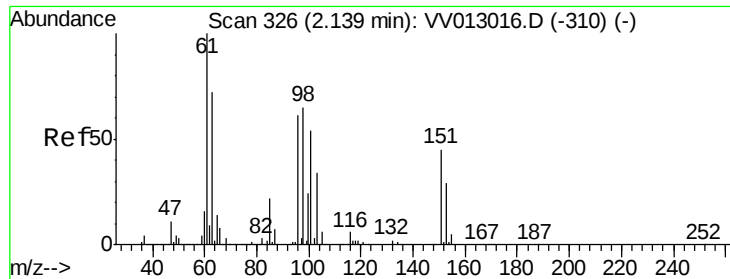
Tgt Ion: 101 Resp: 28680

Ion Ratio Lower Upper

101 100

103 65.2 52.2 78.2





#10

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

Concen: 2.225 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

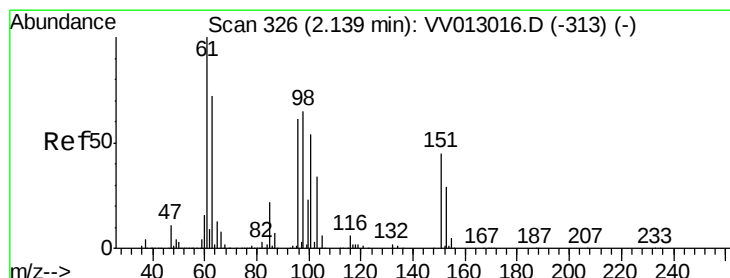
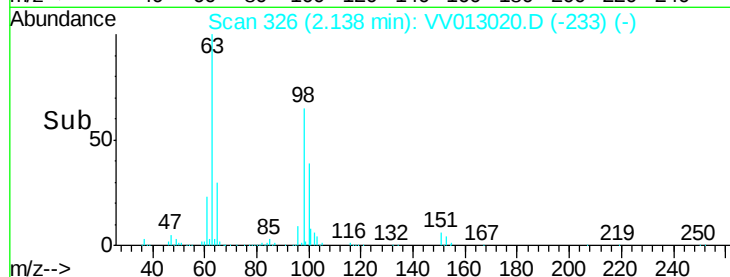
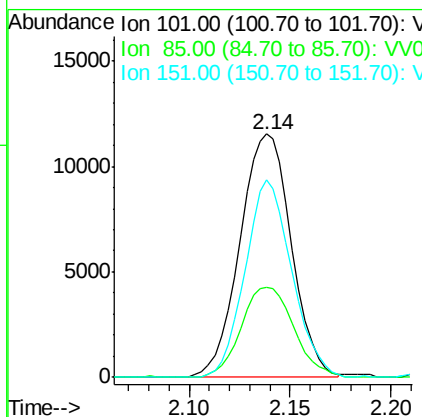
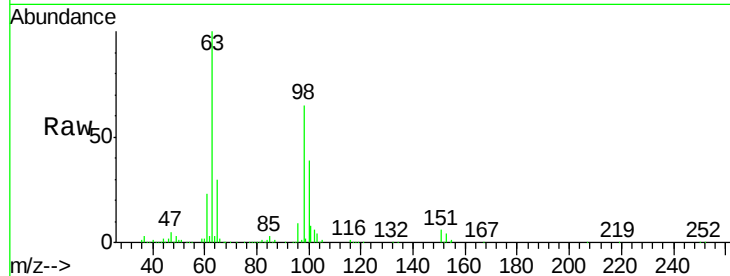
ClientSampleId :

MDL02

Tot Ion:	101	Resp:	20553
Ion Ratio	Lower	Upper	
101	100		
85	37.8	33.6	50.4
151	73.7	66.9	100.3

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#12

1,1-Dichloroethene

Concen: 2.244 ug/L

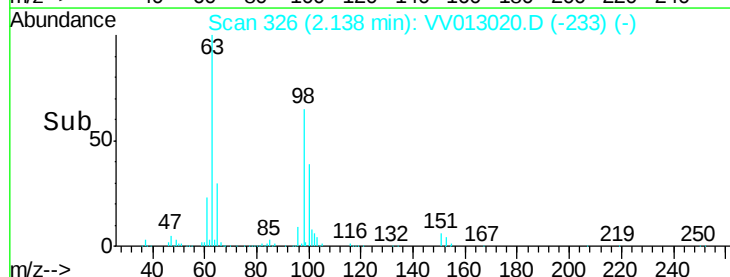
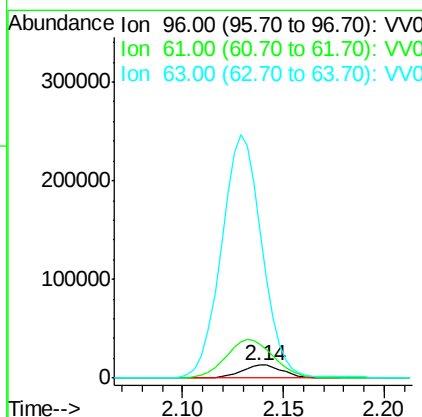
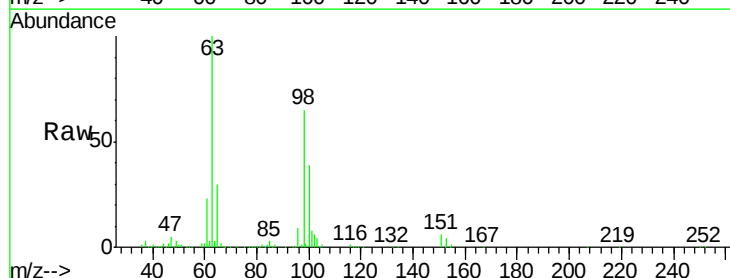
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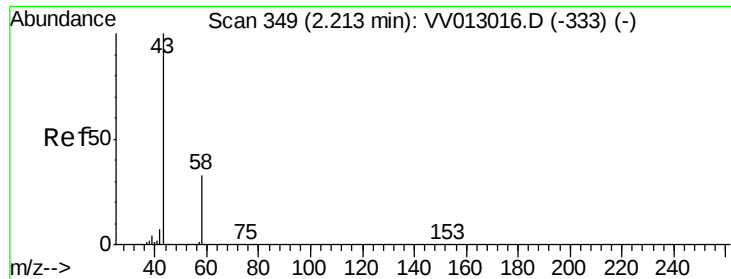
Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Tgt Ion:	96	Resp:	19475
Ion Ratio	Lower	Upper	
96	100		
61	259.1	117.7	218.7#
63	1125.6	90.4	168.0#





#13

Acetone

Concen: 4.985 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.02 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 20096

Ion Ratio Lower Upper

43 100

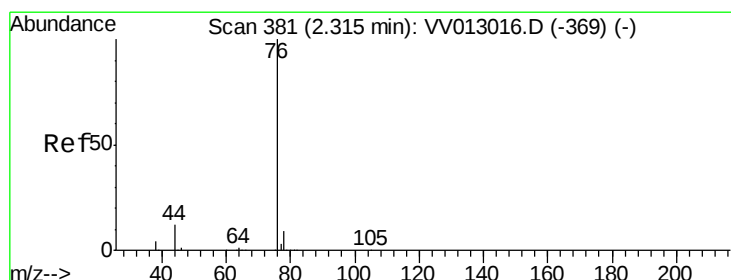
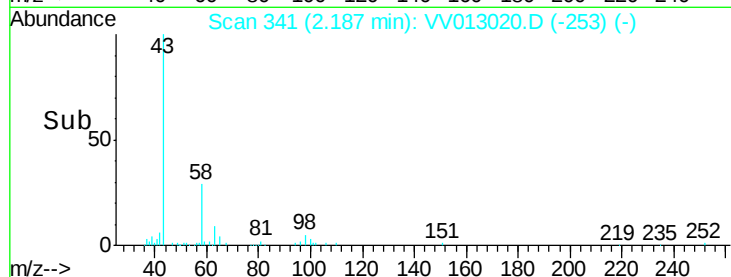
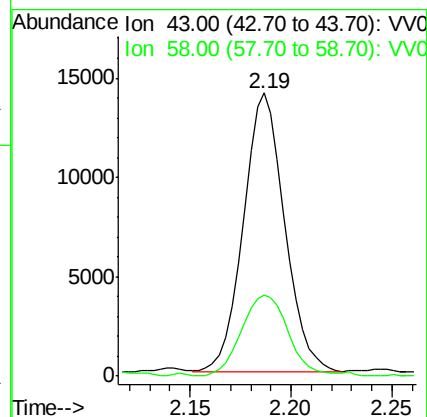
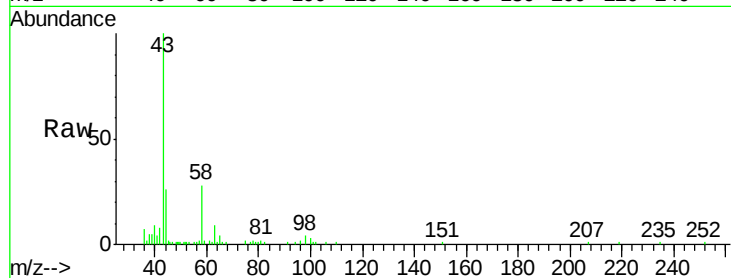
58 33.1 0.0 65.2

Manual Integrations

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#14

Carbon disulfide

Concen: 1.856 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV013020.D

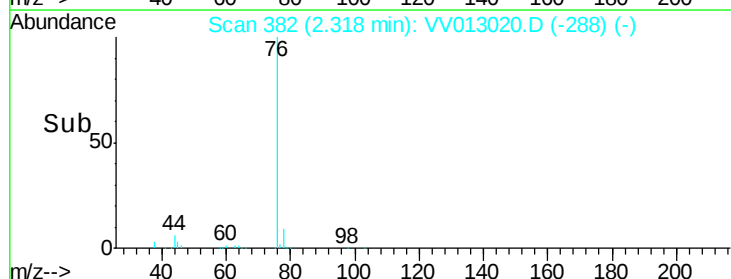
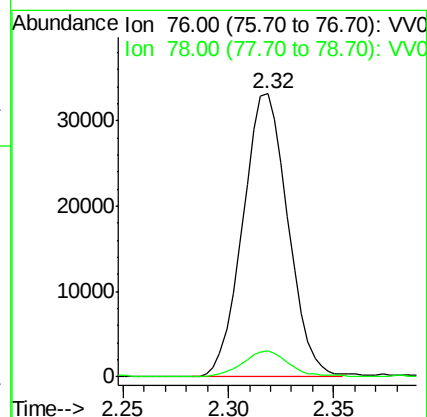
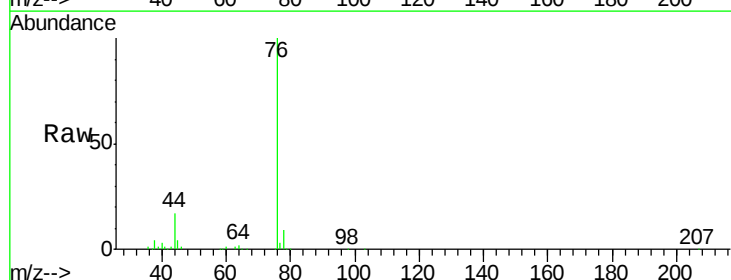
Acq: 30 Sep 2019 16:18

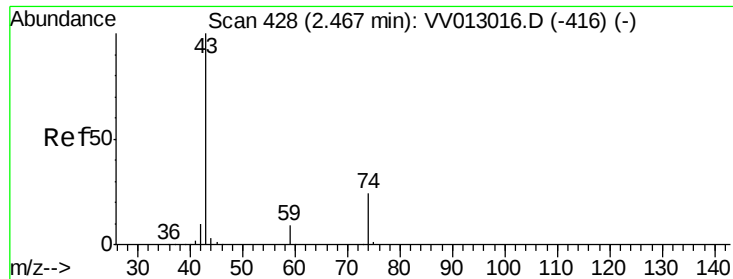
Tgt Ion: 76 Resp: 49437

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7





#15

Methvl Acetate

Concen: 1.898 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 11805

Ion Ratio Lower Upper

43 100

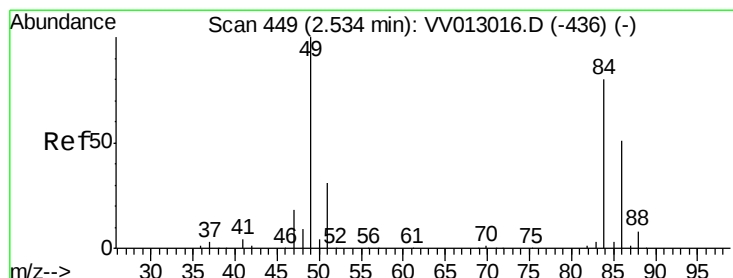
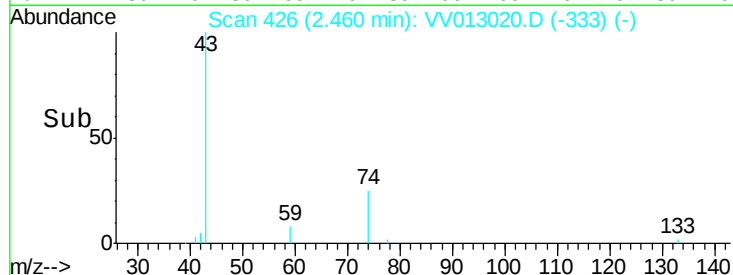
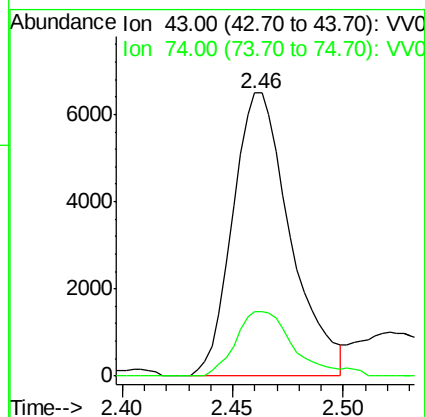
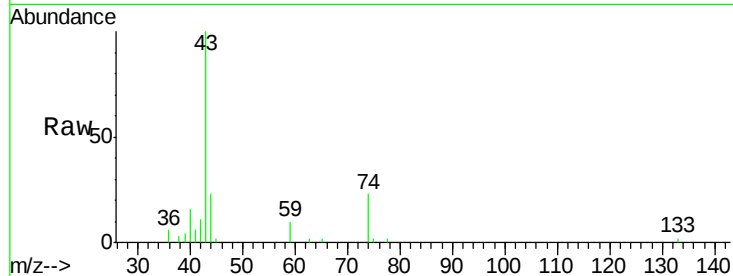
74 22.4 18.5 27.7

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#16

Methylene chloride

Concen: 3.027 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

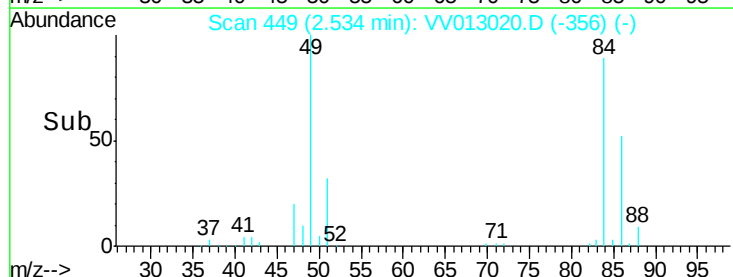
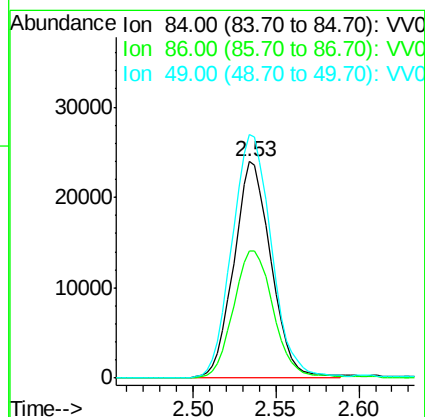
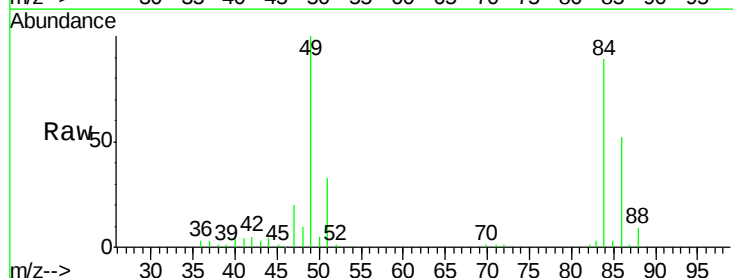
Tgt Ion: 84 Resp: 37544

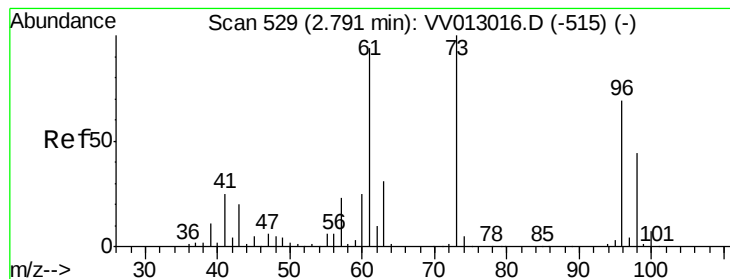
Ion Ratio Lower Upper

84 100

86 58.5 44.5 82.7

49 112.6 87.5 162.5





#17

trans-1,2-Dichloroethene

Concen: 1.992 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

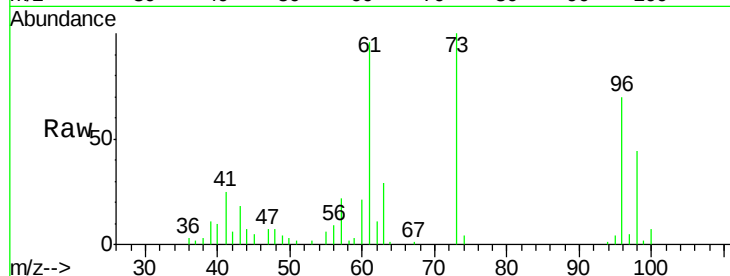
ClientSampleId :

MDL02

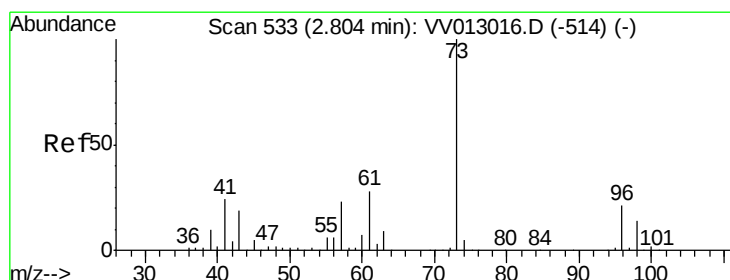
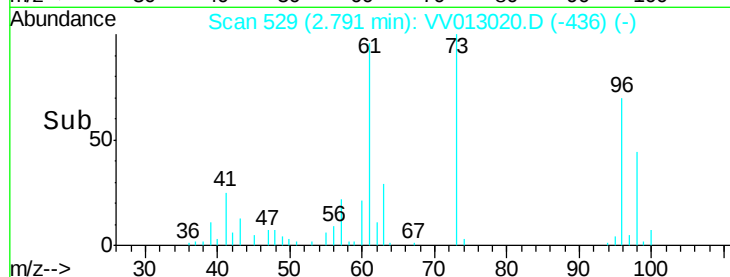
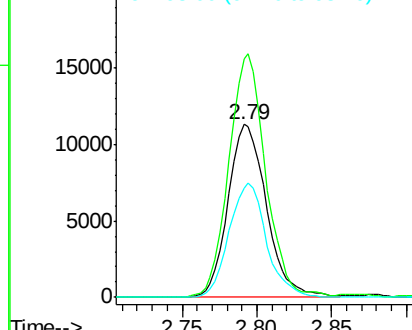
Tot Ion:	96	Resp:	20374
Ion	Ratio	Lower	Upper
96	100		
61	137.8	95.8	177.8
98	63.3	45.1	83.7

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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



#18

Methyl tert-butyl Ether

Concen: 1.913 ug/L

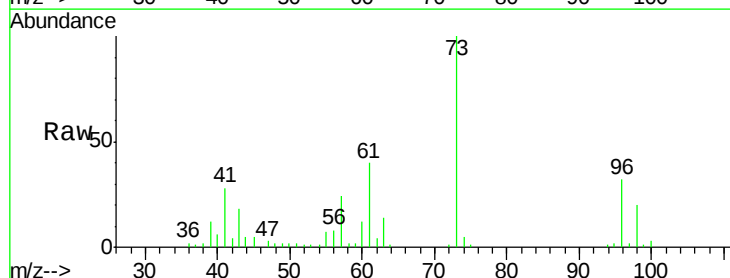
RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

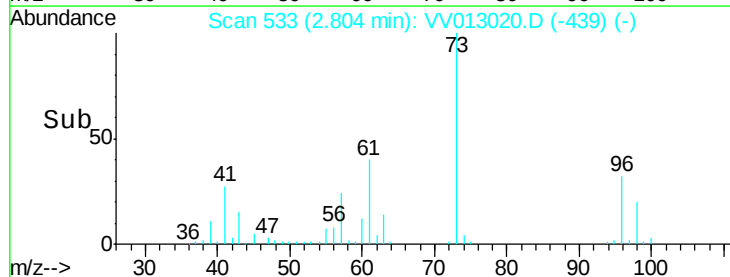
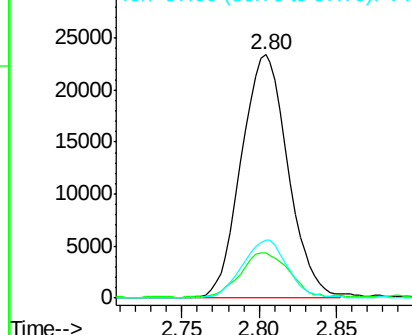
Lab File: VV013020.D

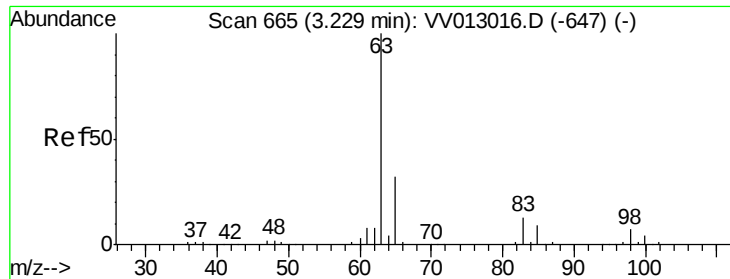
Acq: 30 Sep 2019 16:18

Tgt Ion:	73	Resp:	49230
Ion	Ratio	Lower	Upper
73	100		
43	19.4	15.1	22.7
57	23.1	18.1	27.1



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





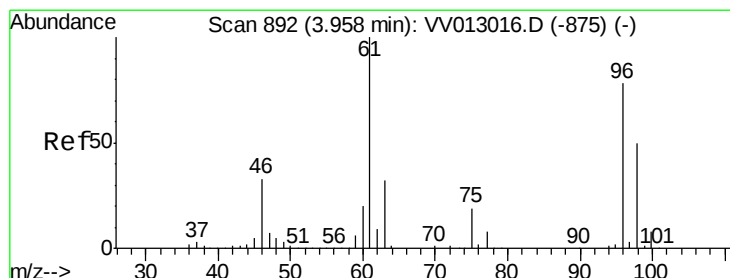
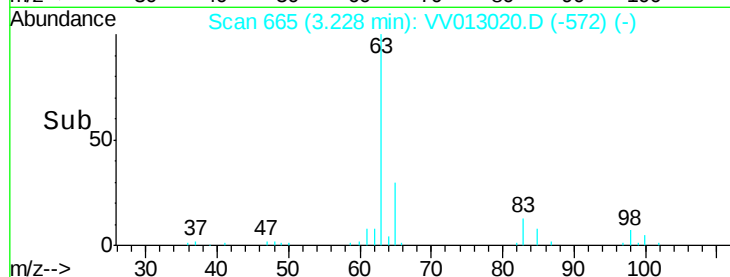
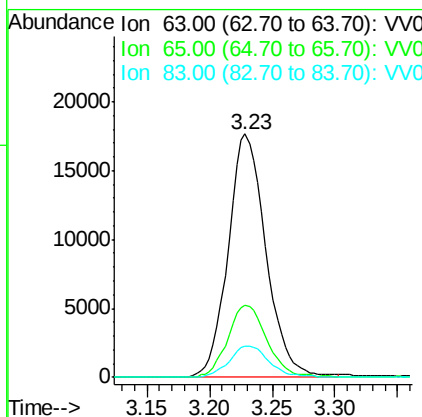
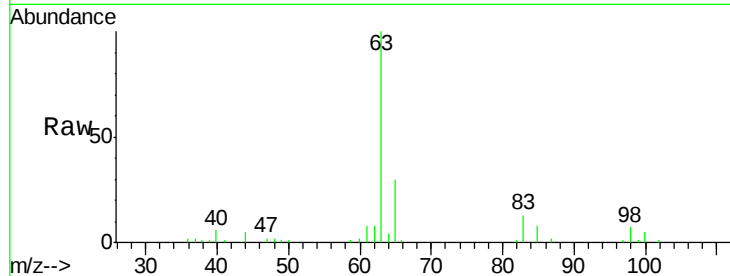
#19
 1,1-Dichloroethane
 Concen: 1.973 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
63	100		
65	29.6	22.4	41.6
83	12.9	9.0	16.6

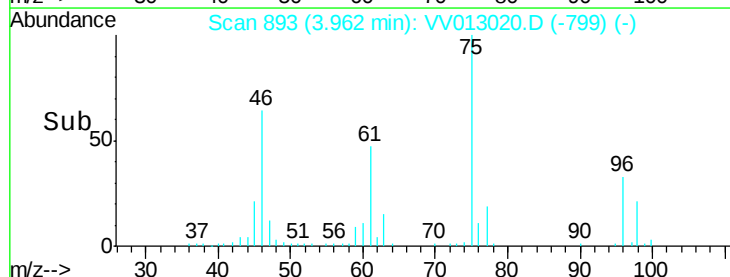
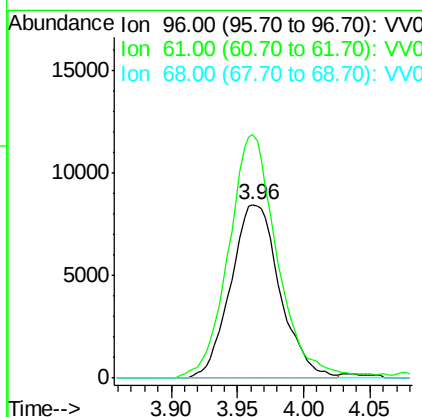
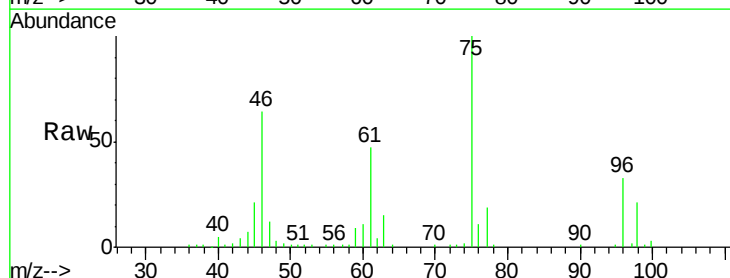
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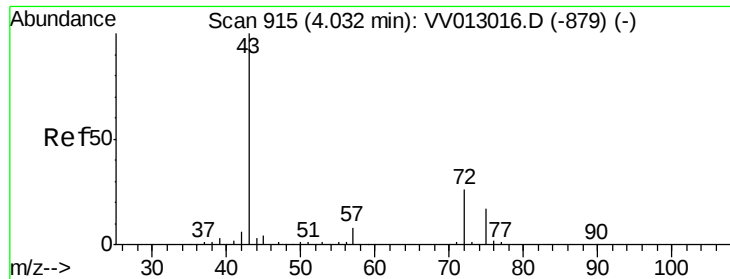
MMDadoda
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#20
 cis-1,2-Dichloroethene
 Concen: 1.921 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Tgt Ion	Ratio	Lower	Upper
96	100		
61	140.4	89.5	166.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.722 ug/L m

RT: 4.03 min Scan# 914

Delta R.T. 0.01 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 43 Resp: 16445

Ion Ratio Lower Upper

43 100

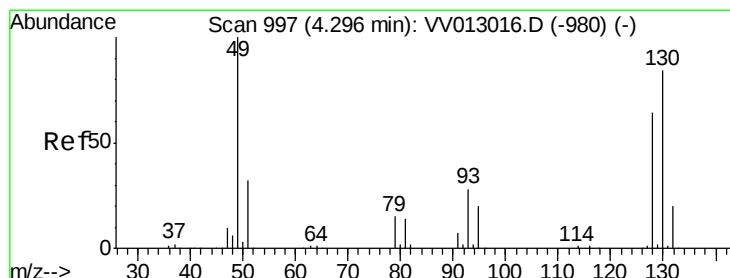
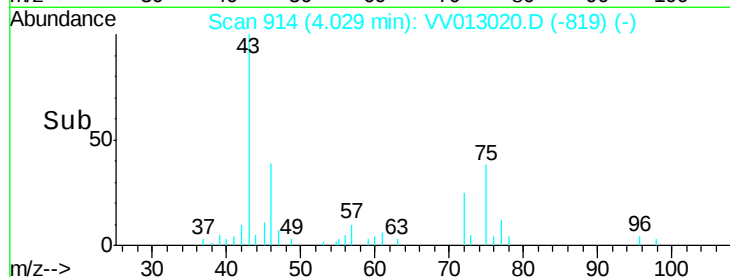
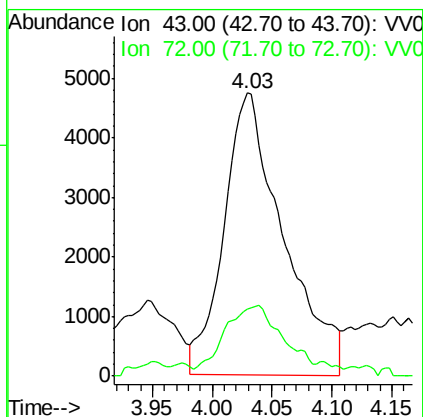
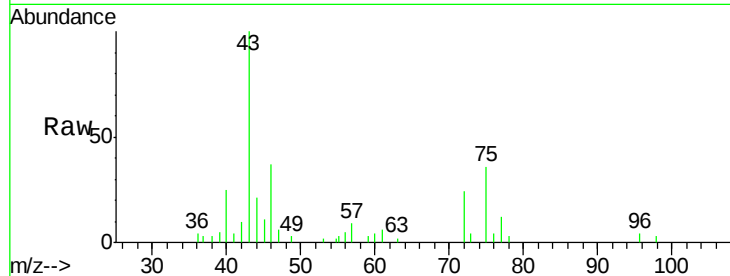
72 19.7 12.0 36.1

Manual Integrations

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#23

Bromochloromethane

Concen: 1.974 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Tgt Ion: 128 Resp: 11009

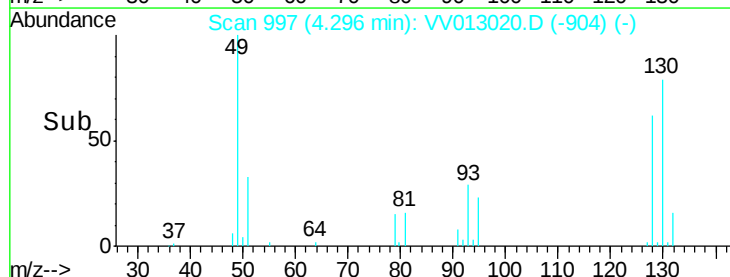
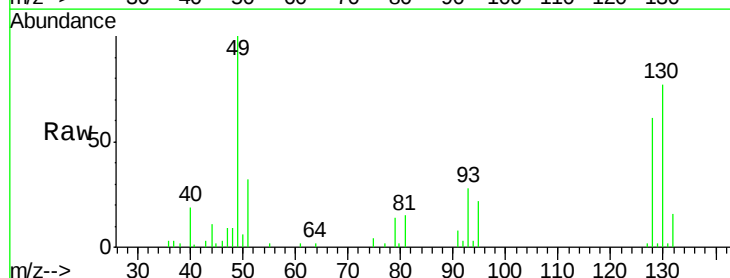
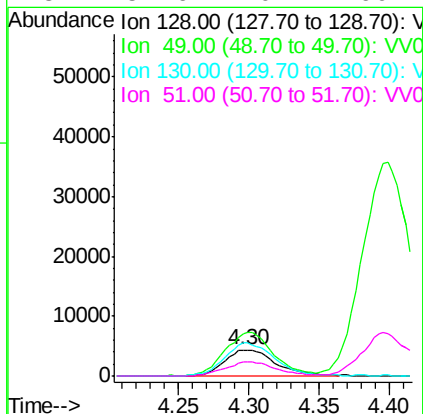
Ion Ratio Lower Upper

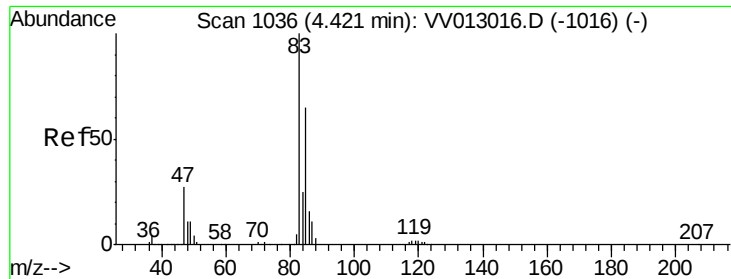
128 100

49 164.8 113.6 211.0

130 126.9 88.0 163.4

51 52.6 40.2 60.2





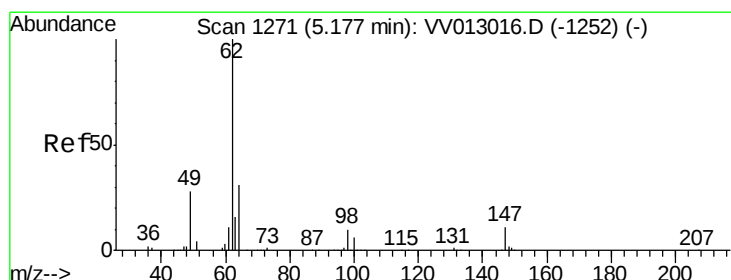
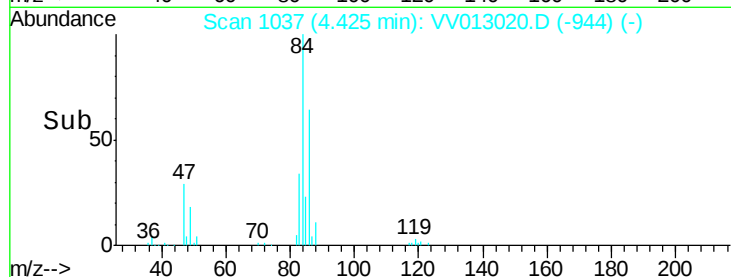
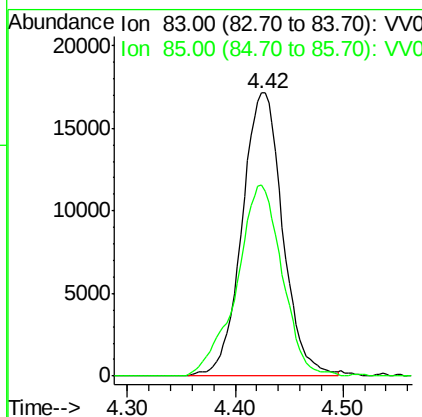
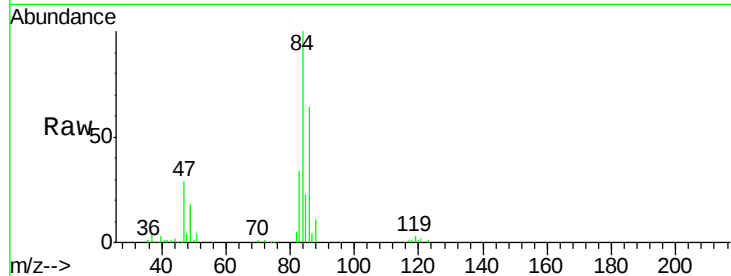
#25
Chloroform
Concen: 2.297 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV013020.D
Acq: 30 Sep 2019 16:18

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	83	Resp	44967
Ion Ratio	100	Lower	Upper
85	67.5	44.7	82.9

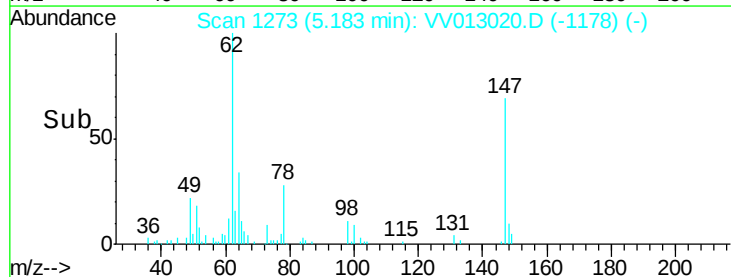
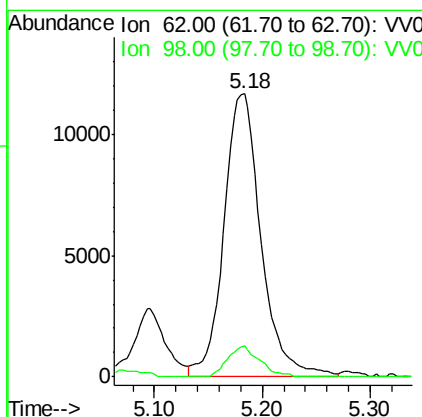
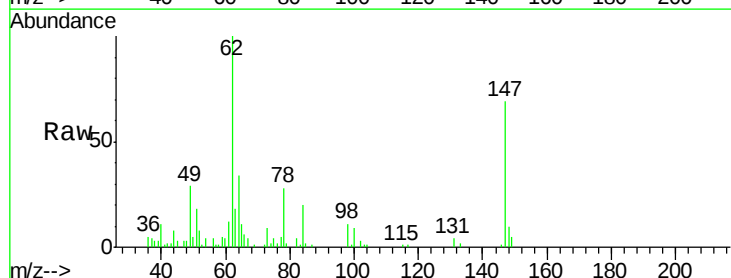
Manual Integrations
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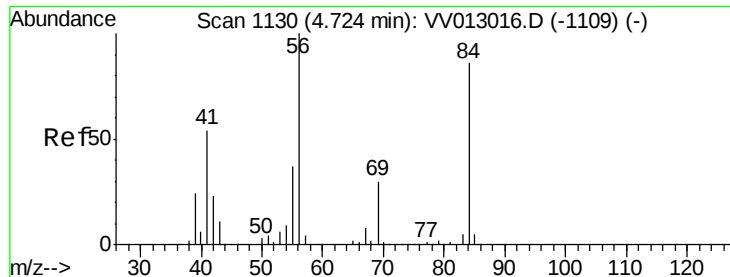
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.075 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV013020.D
Acq: 30 Sep 2019 16:18

Tgt Ion	62	Resp	27913
Ion Ratio	100	Lower	Upper
98	10.8	8.5	12.7





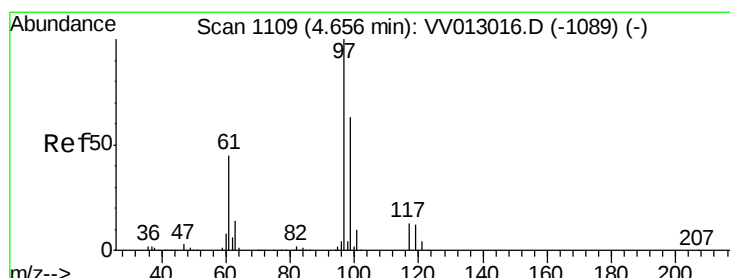
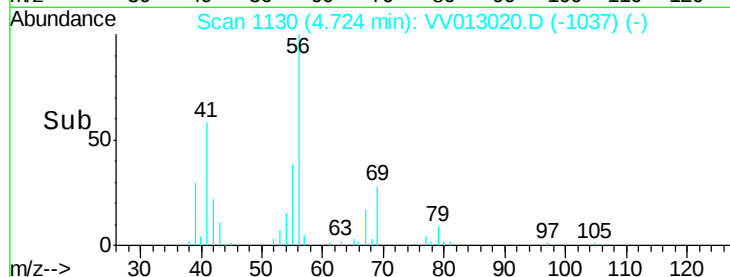
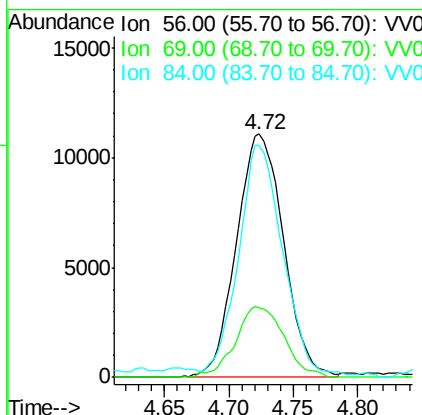
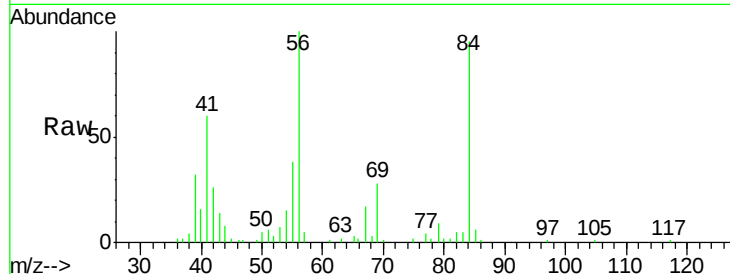
#29
Cyclohexane
Concen: 1.696 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013020.D
Acq: 30 Sep 2019 16:18

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Resp	Lower	Upper
56	100	28213		
69	26.9		24.2	36.4
84	84.7		69.6	104.4

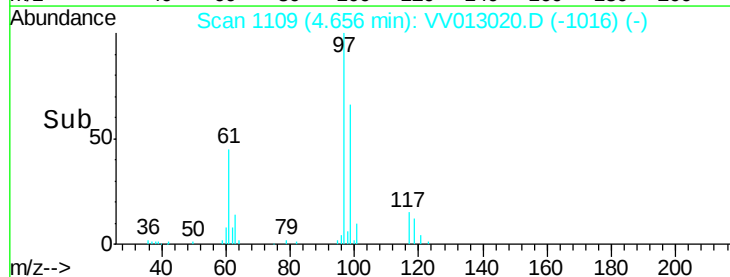
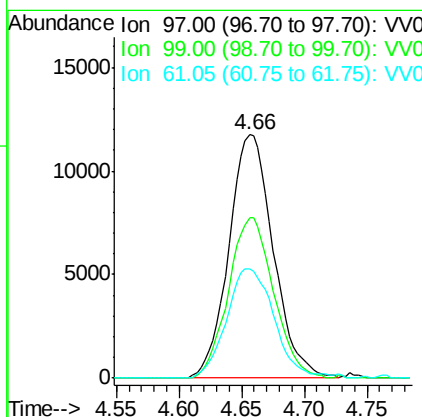
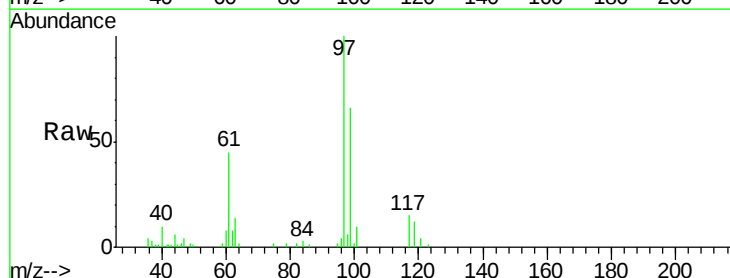
Manual Integrations
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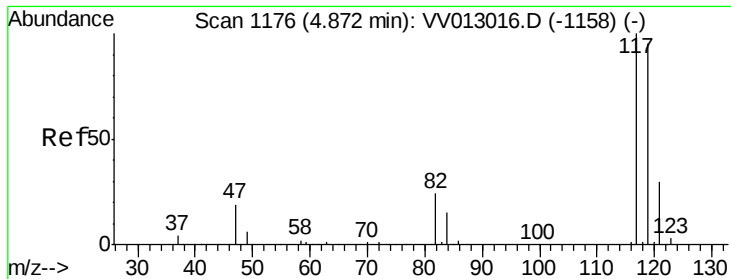
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 1.874 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV013020.D
Acq: 30 Sep 2019 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	28934		
99	66.9		51.7	77.5
61	47.4		36.1	54.1





#31

Carbon tetrachloride

Concen: 1.870 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion:117 Resp: 25979

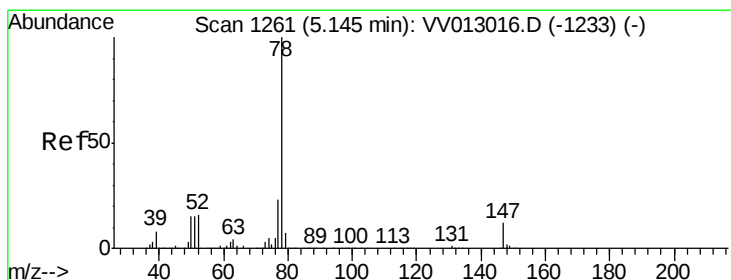
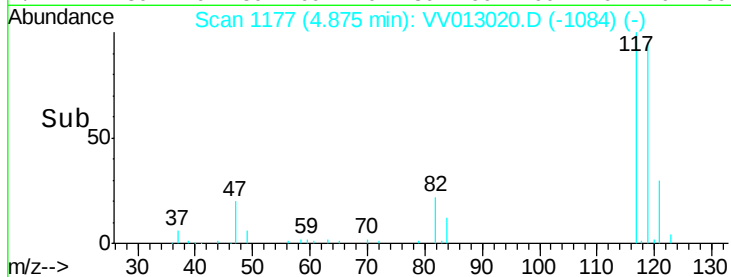
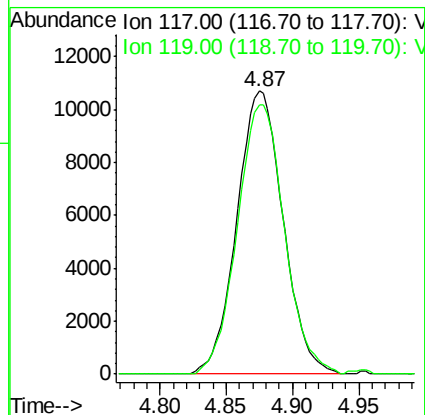
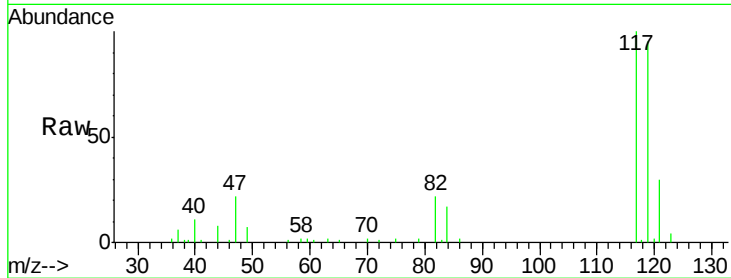
Ion Ratio Lower Upper

117 100

119 96.7 76.1 114.1

Manual Integrations
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#33

Benzene

Concen: 1.987 ug/L

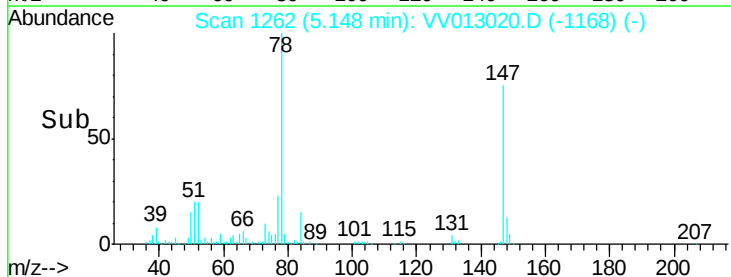
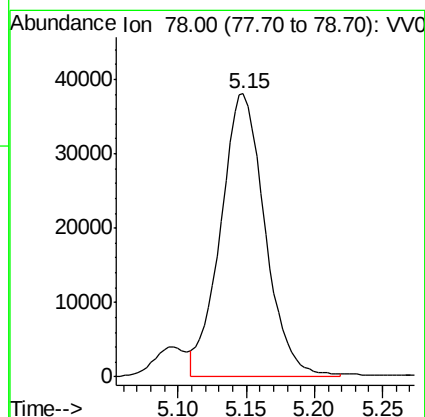
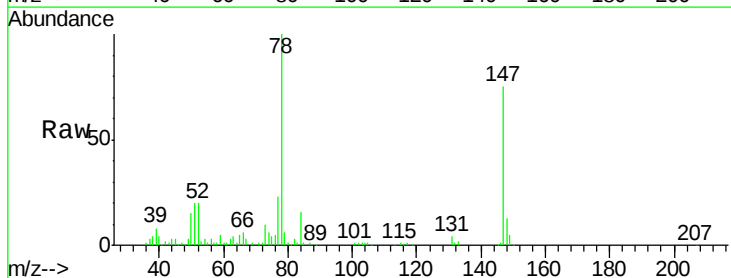
RT: 5.15 min Scan# 1262

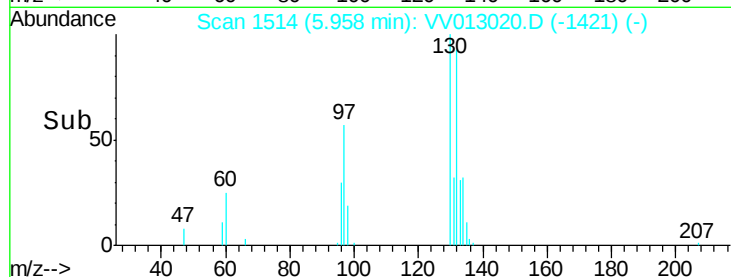
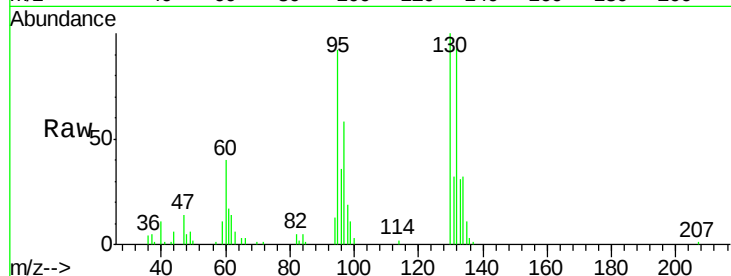
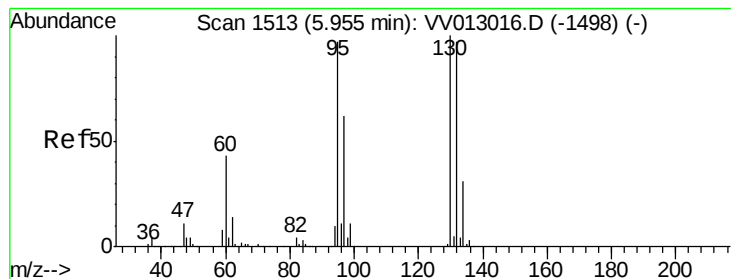
Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Tgt Ion: 78 Resp: 85859





#34

Trichloroethene

Concen: 1.989 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV013020.D

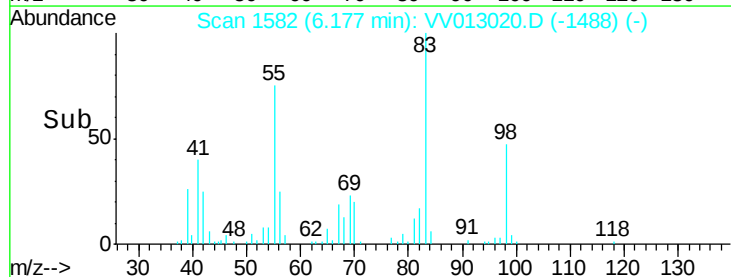
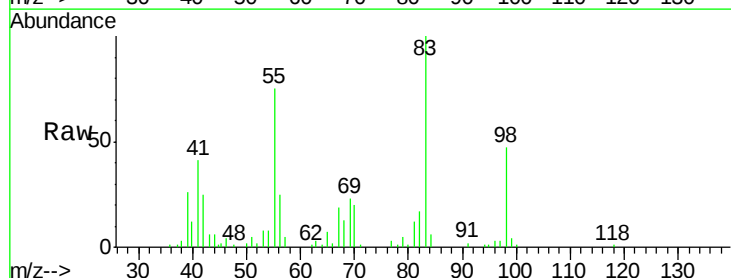
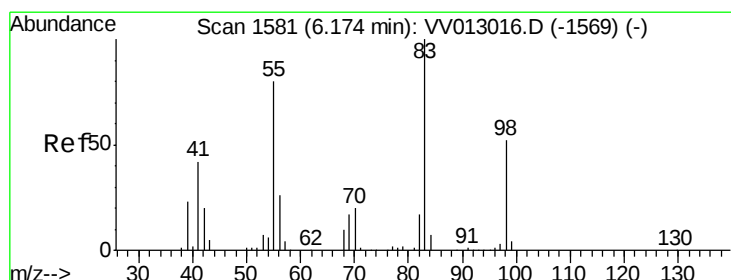
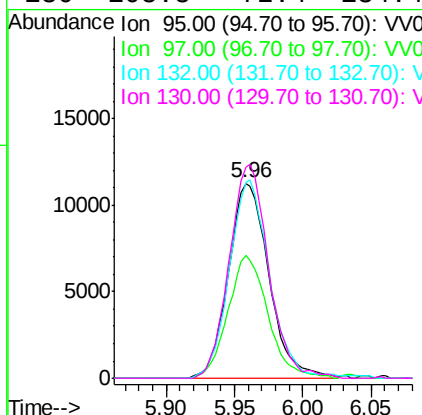
Acq: 30 Sep 2019 16:18

Tot Ion	95	Resp	23284
Ion	Ratio	Lower	Upper
95	100		
97	63.4	45.4	84.2
132	100.9	70.1	130.3
130	108.8	72.4	134.4

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Manual Integrations
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#35

Methylcyclohexane

Concen: 1.735 ug/L

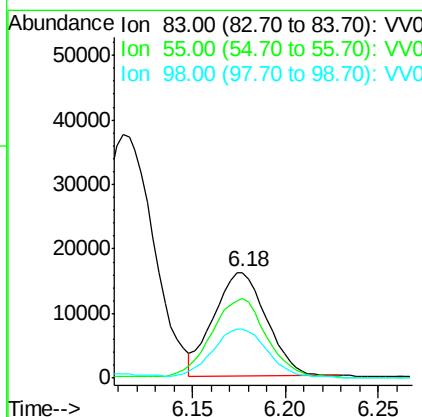
RT: 6.18 min Scan# 1582

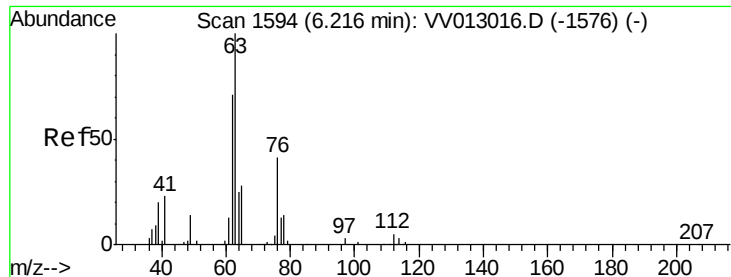
Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Tgt Ion	83	Resp	31873
Ion	Ratio	Lower	Upper
83	100		
55	78.9	61.9	92.9
98	47.6	40.0	60.0





#37

1,2-Dichloropropane

Concen: 1.889 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 63 Resp: 20948

Ion Ratio Lower Upper

63 100

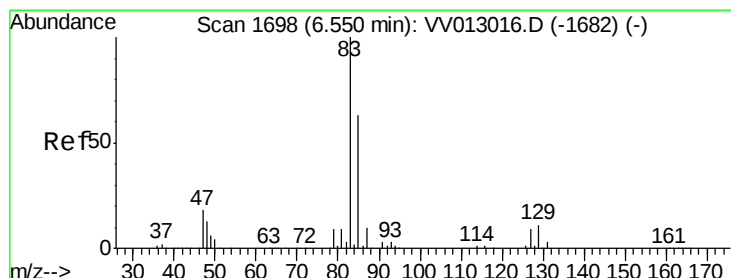
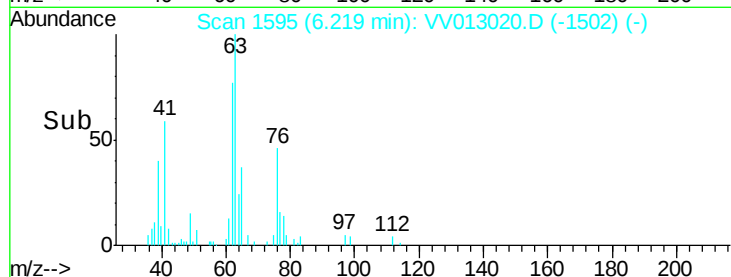
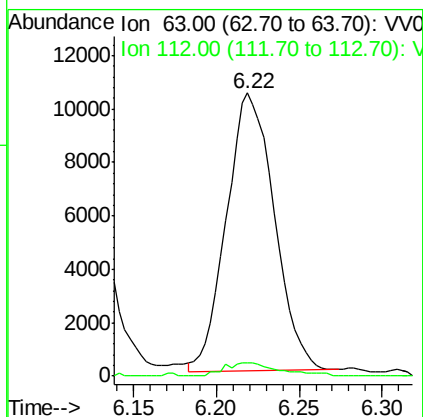
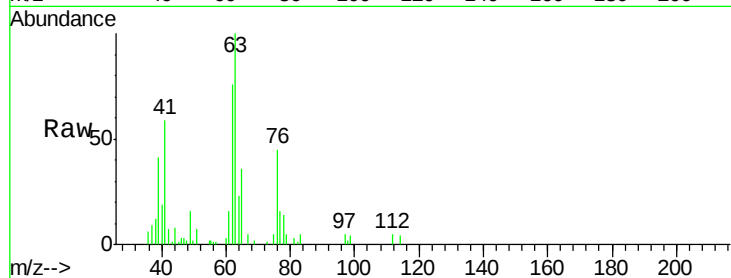
112 2.6 3.8 5.8#

Manual Integrations

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#38

Bromodichloromethane

Concen: 1.901 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

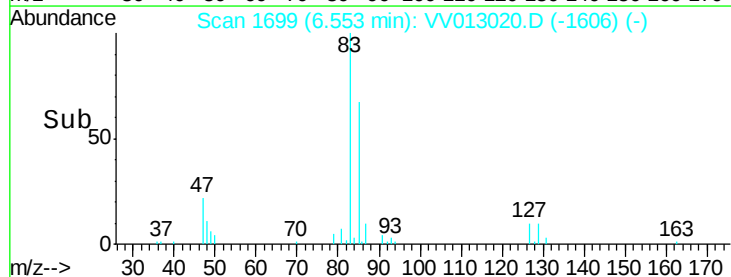
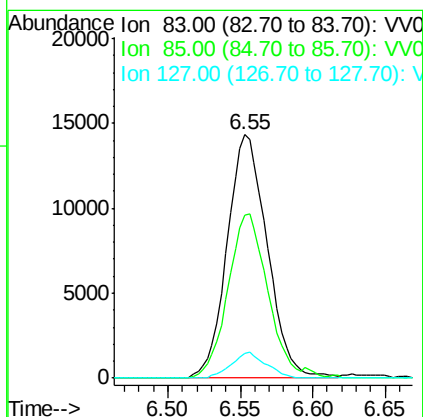
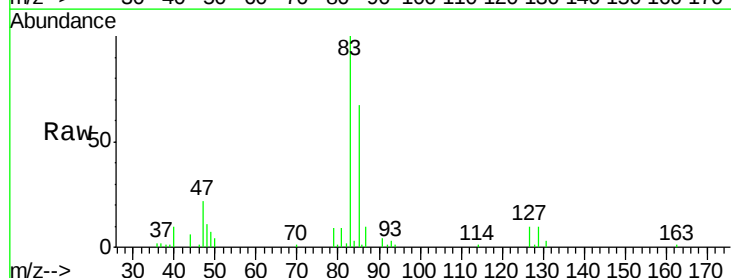
Tgt Ion: 83 Resp: 27512

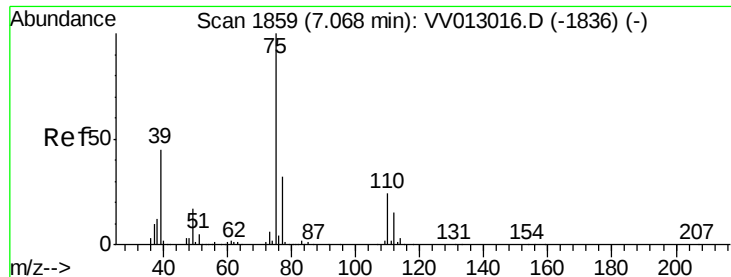
Ion Ratio Lower Upper

83 100

85 67.1 43.9 81.5

127 10.1 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 1.894 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 75 Resp: 31612

Ion Ratio Lower Upper

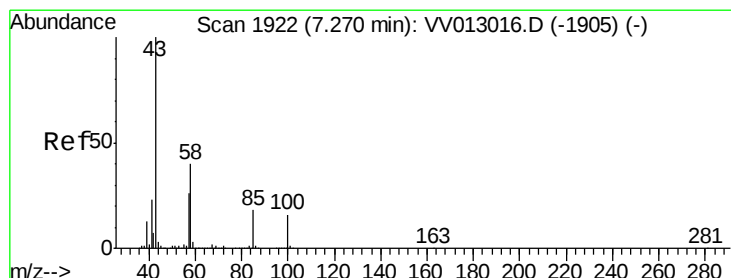
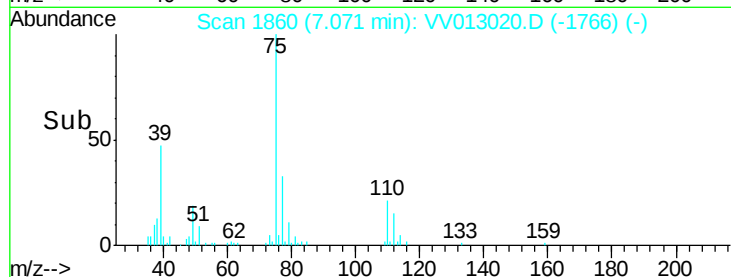
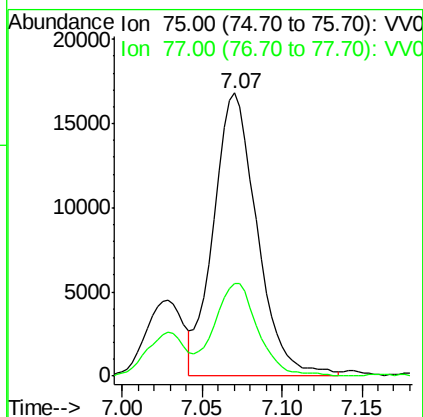
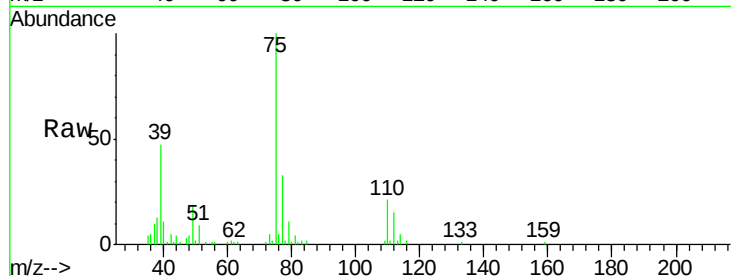
75 100

77 32.8 21.8 40.4

Manual Integrations
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#40

4-Methyl-2-pentanone

Concen: 3.675 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

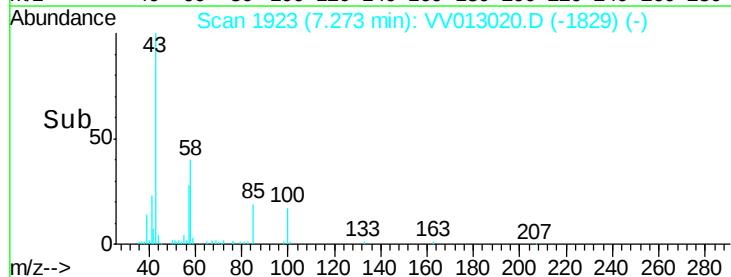
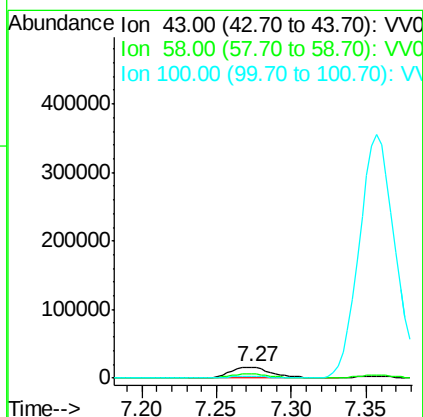
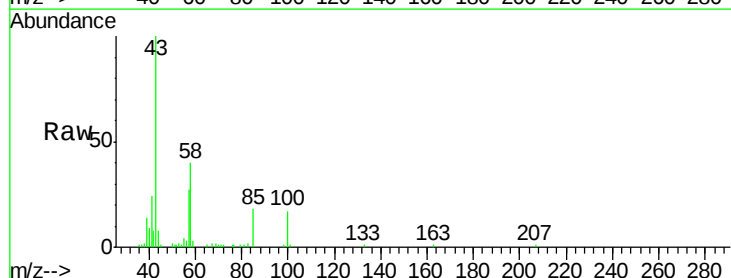
Tgt Ion: 43 Resp: 32560

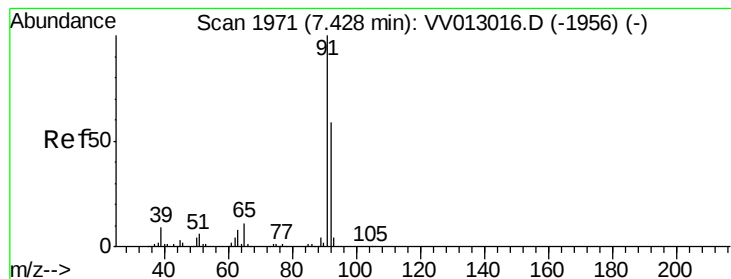
Ion Ratio Lower Upper

43 100

58 38.2 31.8 47.8

100 14.9 12.8 19.2





#42

Toluene

Concen: 2.041 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 91 Resp: 93805

Ion Ratio Lower Upper

91 100

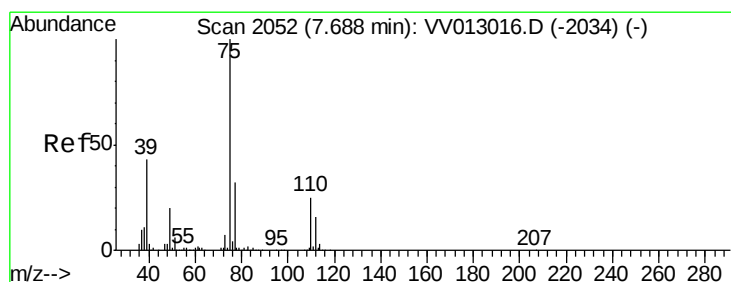
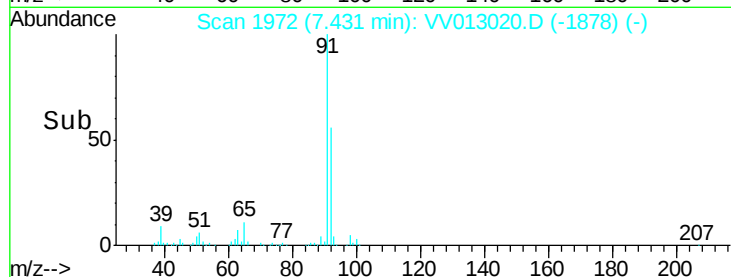
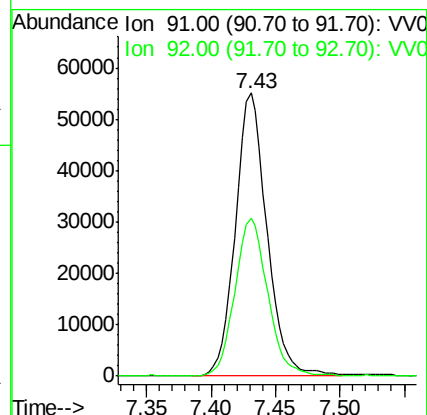
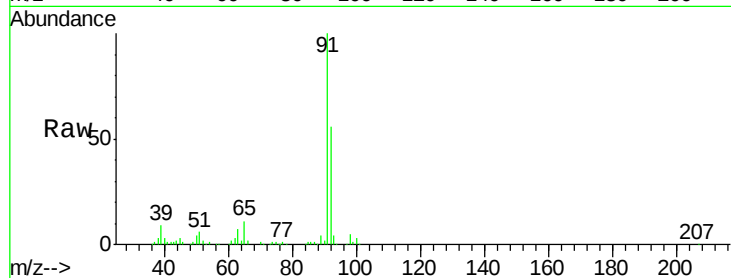
92 56.0 41.1 76.3

Manual Integrations

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#44

trans-1,3-Dichloropropene

Concen: 1.897 ug/L m

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV013020.D

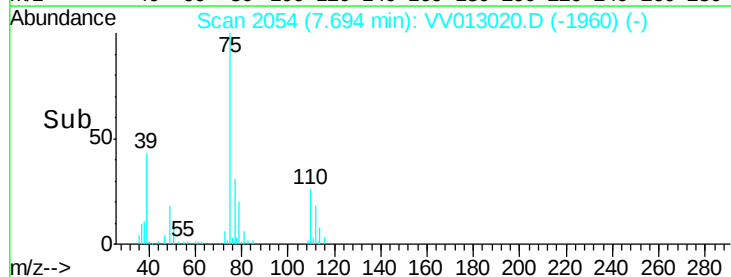
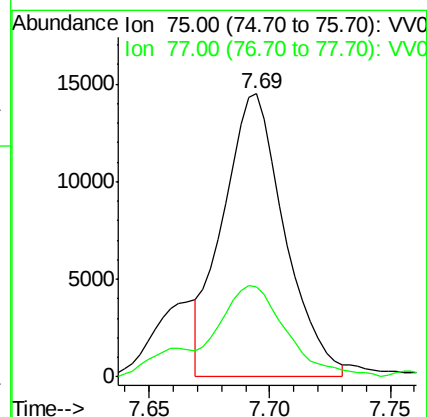
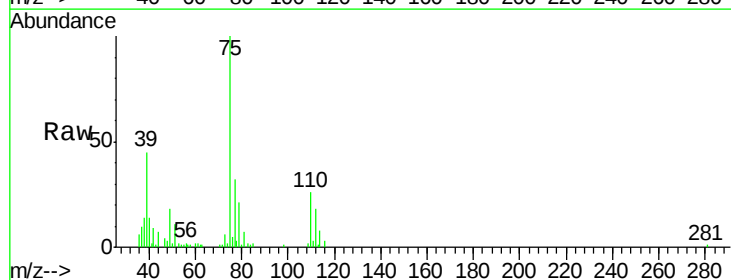
Acq: 30 Sep 2019 16:18

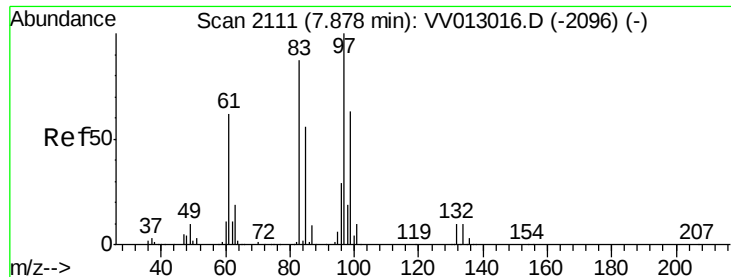
Tgt Ion: 75 Resp: 26002

Ion Ratio Lower Upper

75 100

77 32.0 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 1.906 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

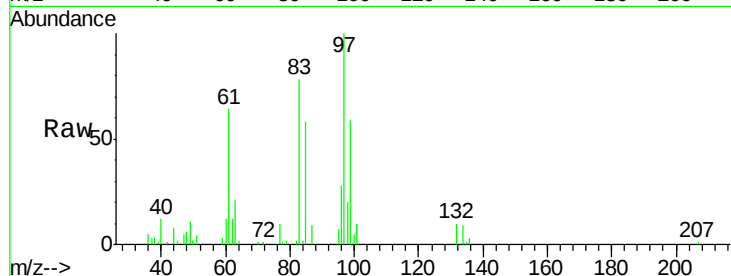
ClientSampleId :

MDL02

Tot Ion:	97	Resp:	17927
Ion	Ratio	Lower	Upper
97	100		
99	59.3	44.2	82.2
83	77.7	59.7	110.9
85	58.3	38.6	71.6

Manual Integrations
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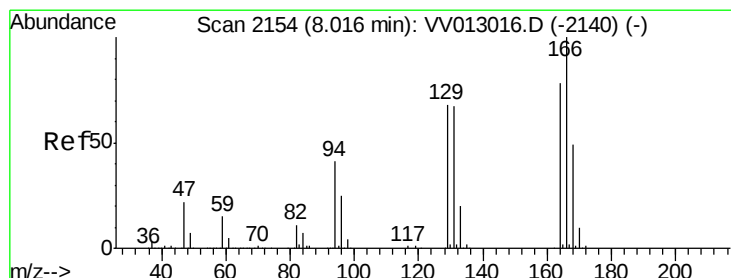
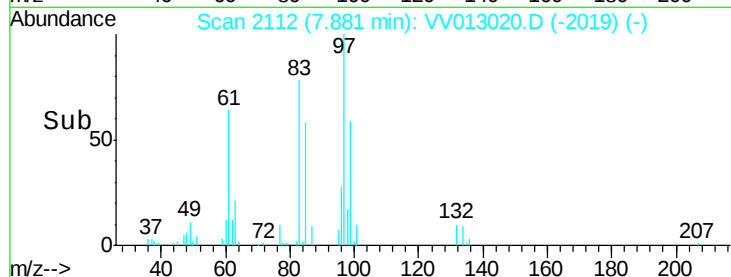
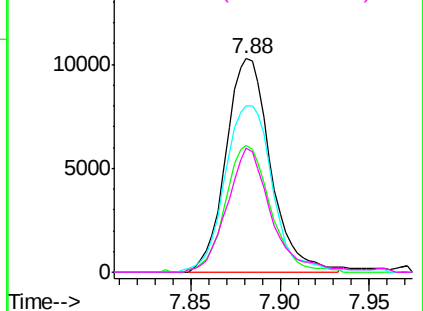
Abundance

Ion 97.00 (96.70 to 97.70): VV013016.D (-2096) (-)

Ion 99.00 (98.70 to 99.70): VV013016.D (-2096) (-)

Ion 83.00 (82.70 to 83.70): VV013016.D (-2096) (-)

Ion 85.00 (84.70 to 85.70): VV013016.D (-2096) (-)



#46

Tetrachloroethene

Concen: 1.925 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Tgt Ion:	164	Resp:	18642
Ion	Ratio	Lower	Upper
164	100		
129	92.0	61.2	113.6
131	85.1	59.9	111.3
166	126.2	89.1	165.5

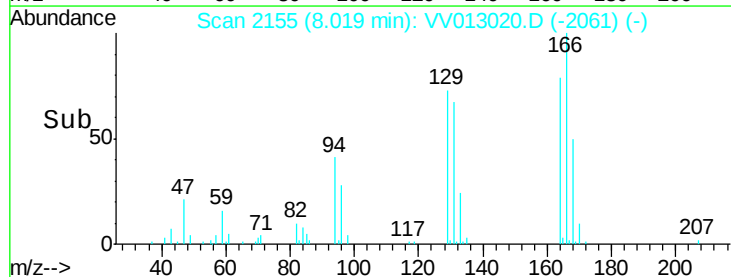
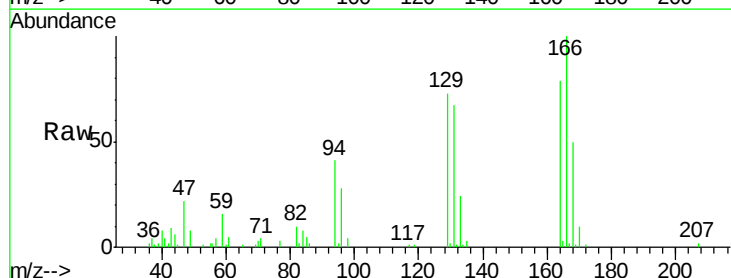
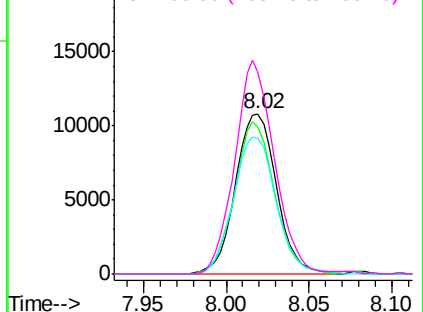
Abundance

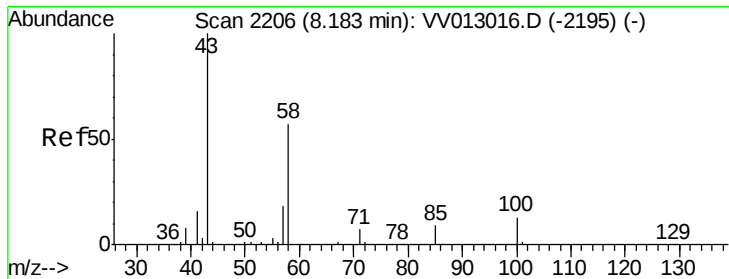
Ion 164.00 (163.70 to 164.70): VV013016.D (-2140) (-)

Ion 129.00 (128.70 to 129.70): VV013016.D (-2140) (-)

Ion 131.00 (130.70 to 131.70): VV013016.D (-2140) (-)

Ion 166.00 (165.70 to 166.70): VV013016.D (-2140) (-)





#48

2-Hexanone

Concen: 3.918 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

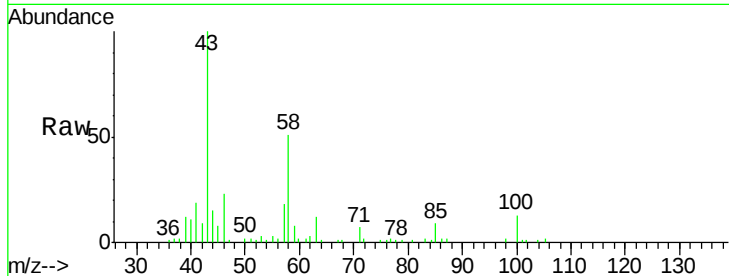
ClientSampleId :

MDL02

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	51.4	44.9	67.3	
57	18.2	15.2	22.8	
100	11.6	10.5	15.7	

Manual Integrations
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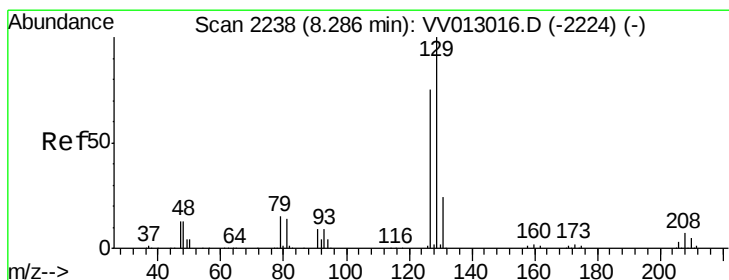
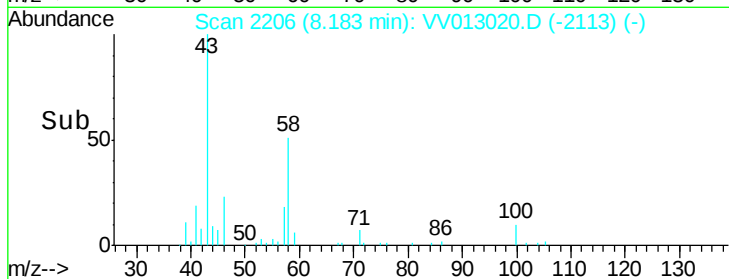
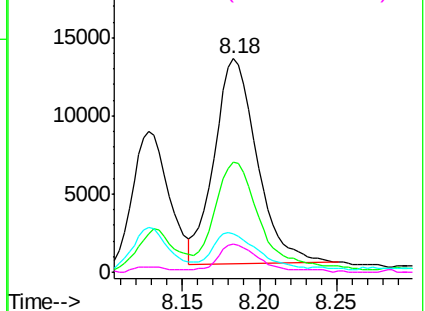
Abundance

Ion 43.00 (42.70 to 43.70): VV013016.D (-2195) (-)

Ion 58.00 (57.70 to 58.70): VV013016.D (-2195) (-)

Ion 57.00 (56.70 to 57.70): VV013016.D (-2195) (-)

Ion 100.00 (99.70 to 100.70): VV013016.D (-2195) (-)



#49

Dibromochloromethane

Concen: 1.909 ug/L

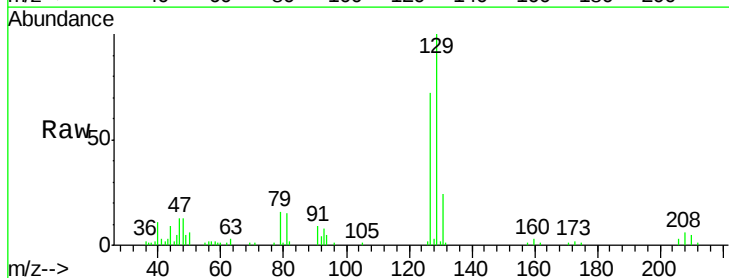
RT: 8.29 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

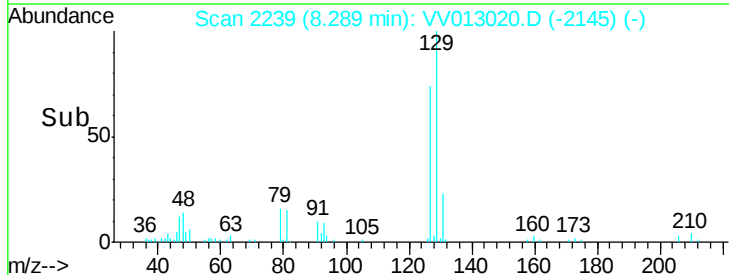
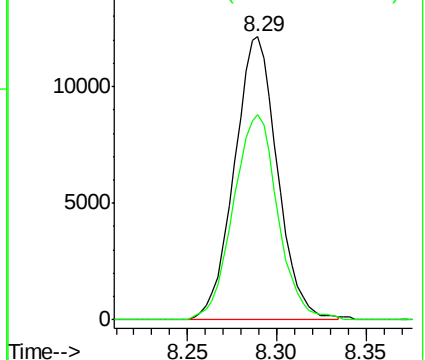
Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	72.4	53.9	100.1	

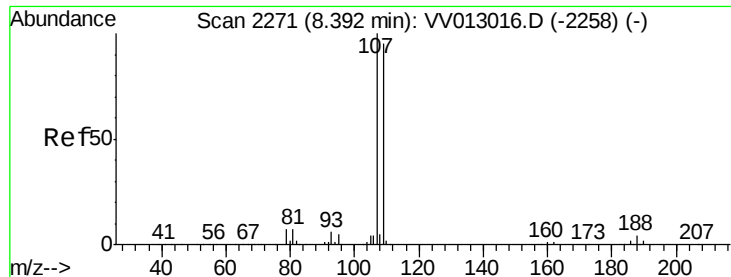


Abundance

Ion 129.00 (128.70 to 129.70): VV013016.D (-2224) (-)

Ion 127.00 (126.70 to 127.70): VV013016.D (-2224) (-)





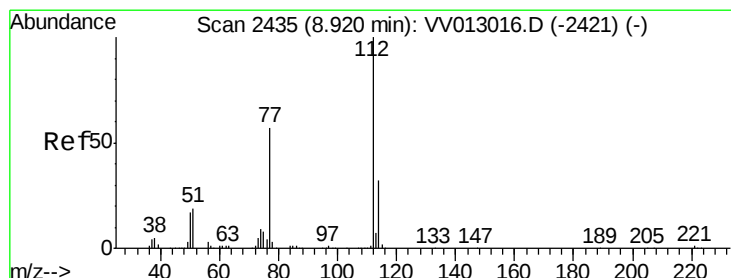
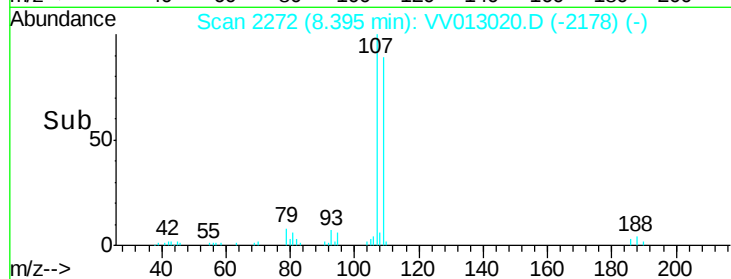
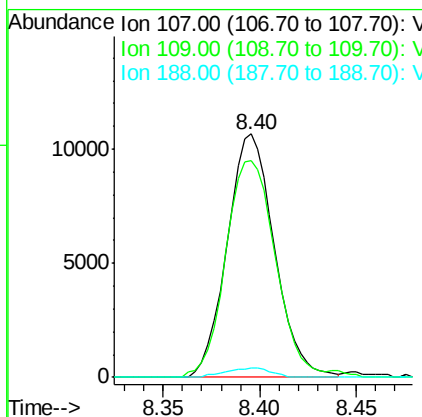
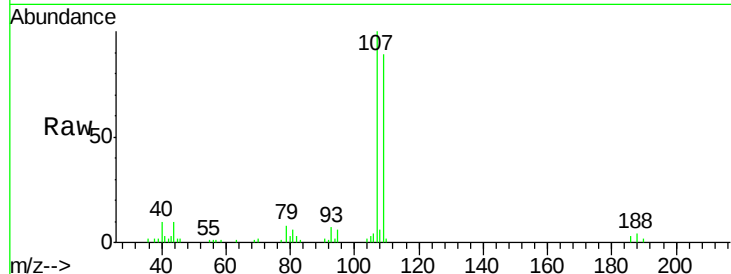
#50
 1,2-Dibromoethane
 Concen: 1.948 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
107	100		
109	89.1	64.7	120.1
188	3.7	3.7	5.5#

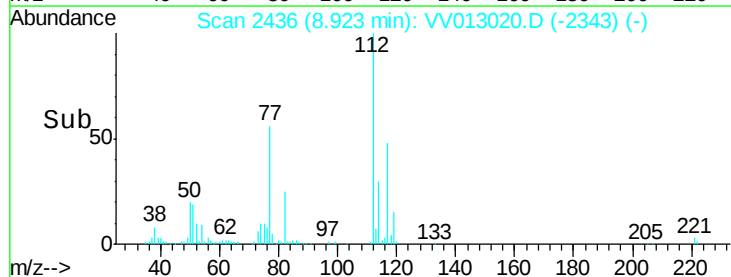
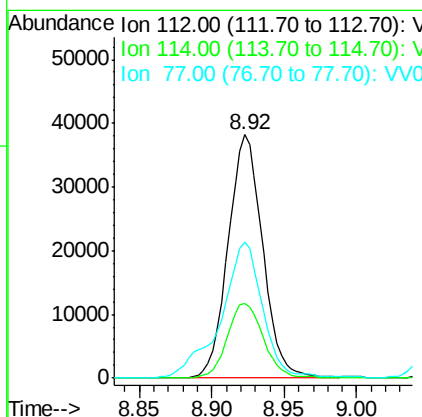
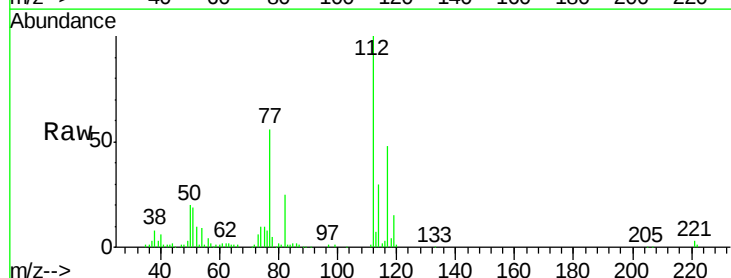
Manual Integrations
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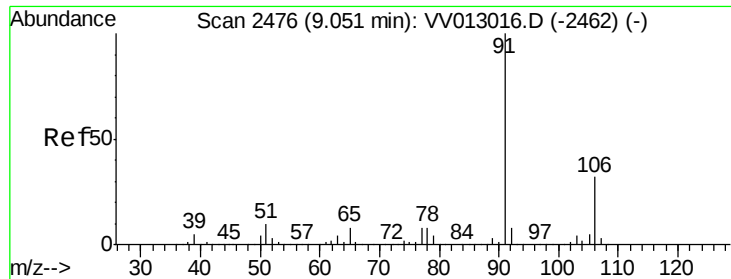
MMDadoda
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#51
 Chlorobenzene
 Concen: 2.035 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.4	22.7	42.1
77	55.9	45.9	68.9





#52

Ethylbenzene

Concen: 1.825 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 91 Resp: 92137

Ion Ratio Lower Upper

91 100

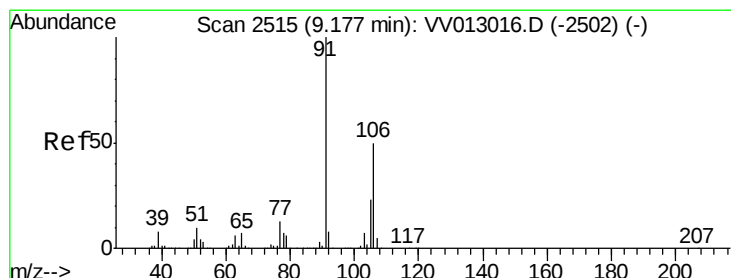
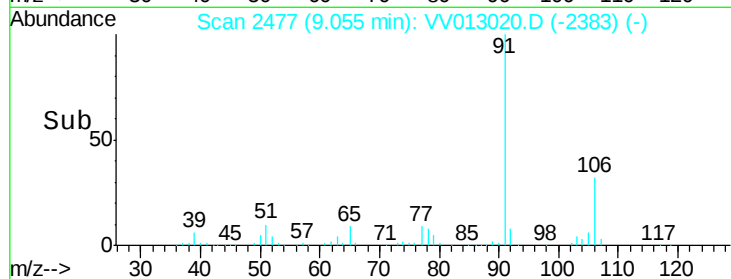
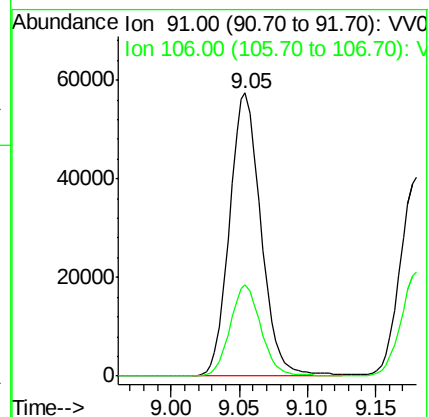
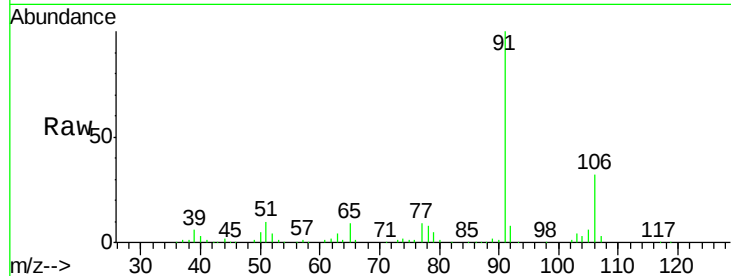
106 32.1 21.8 40.4

Manual Integrations

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#53

m,p-Xylene

Concen: 1.787 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013020.D

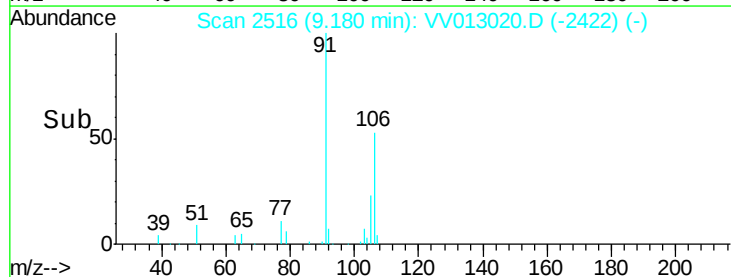
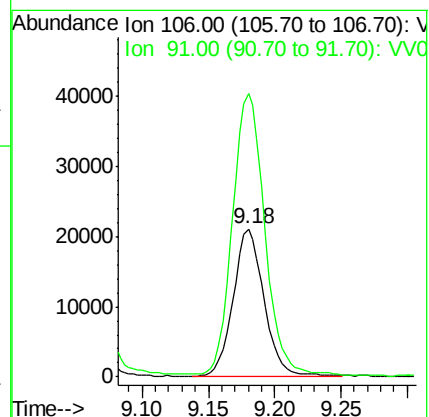
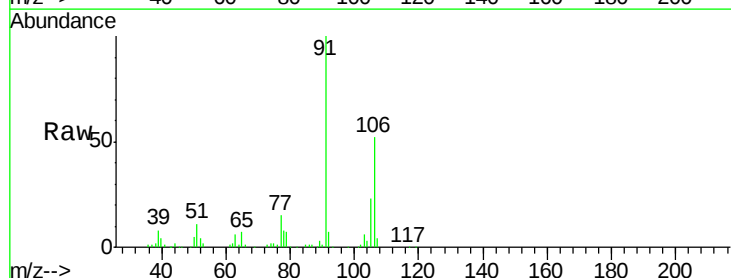
Acq: 30 Sep 2019 16:18

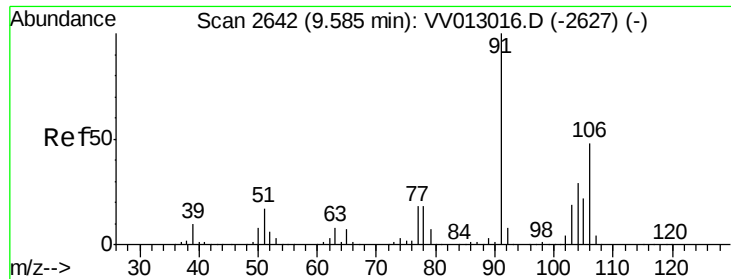
Tgt Ion: 106 Resp: 34484

Ion Ratio Lower Upper

106 100

91 191.5 138.0 256.2





#54

o-Xylene

Concen: 1.747 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion:106 Resp: 32245

Ion Ratio Lower Upper

106 100

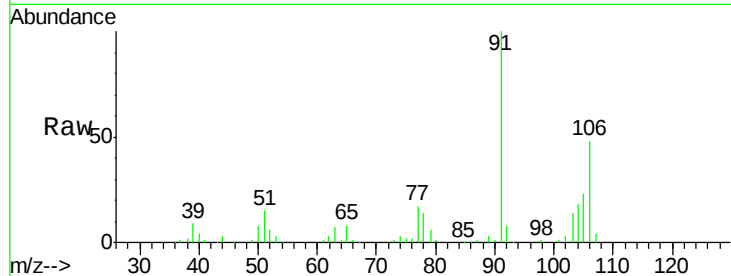
91 206.3 150.8 280.1

Manual Integrations

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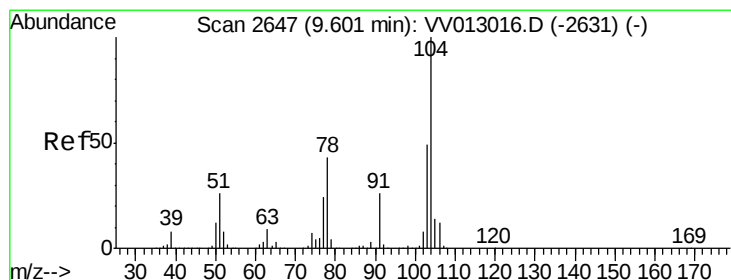
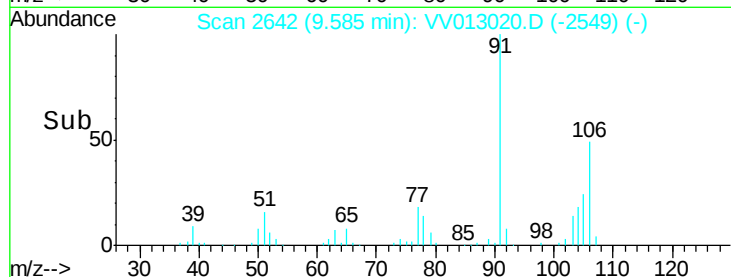
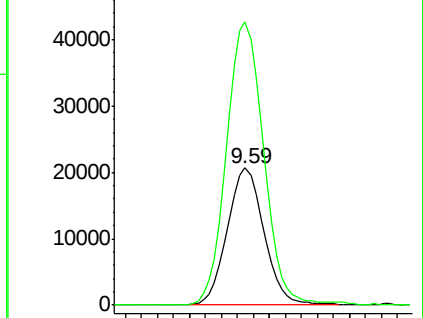
MMDadoda

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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 1.590 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV013020.D

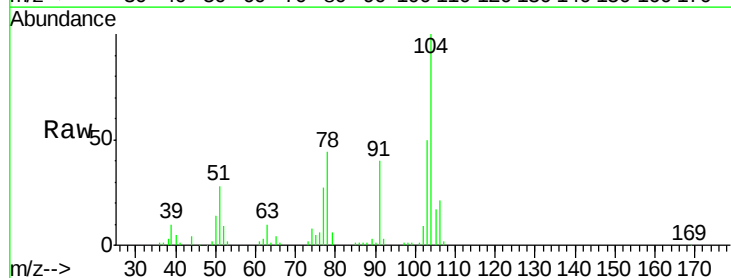
Acq: 30 Sep 2019 16:18

Tgt Ion:104 Resp: 51391

Ion Ratio Lower Upper

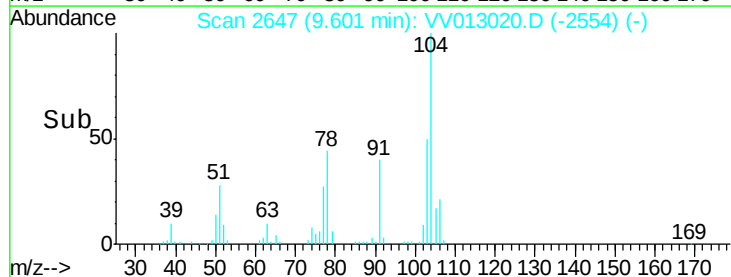
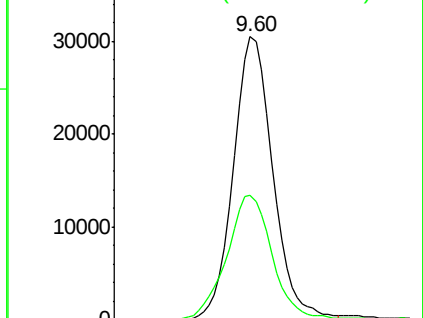
104 100

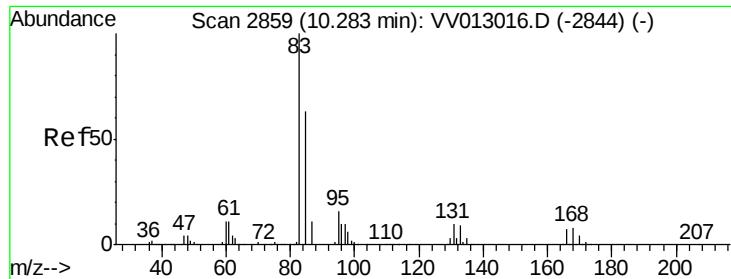
78 44.2 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





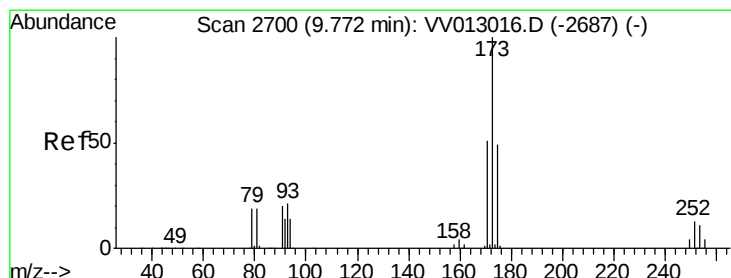
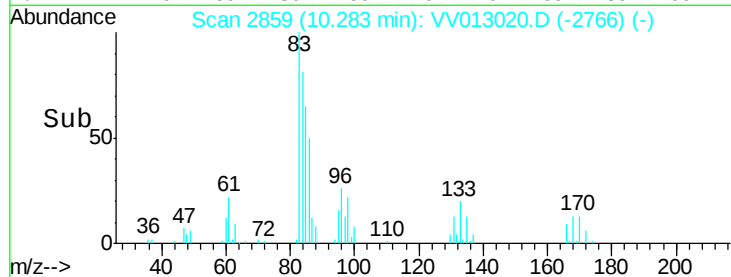
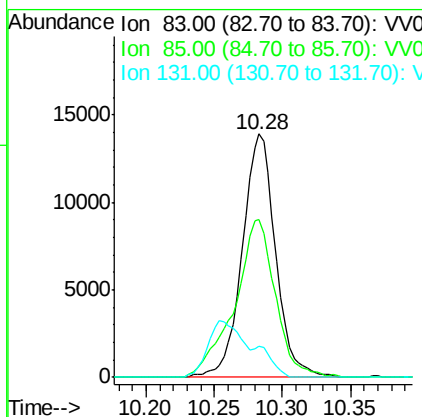
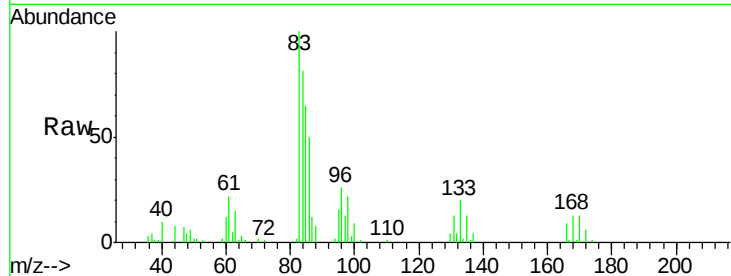
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.051 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. 0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
83	100		
85	64.6	44.5	82.7
131	12.6	8.2	12.2

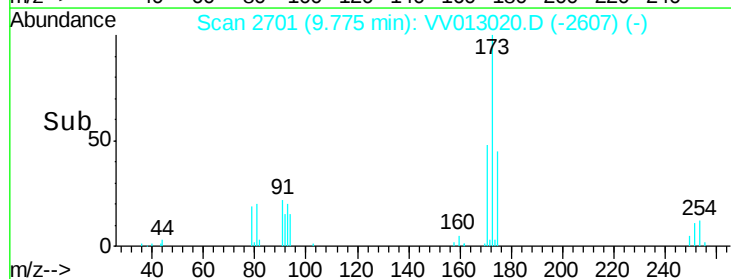
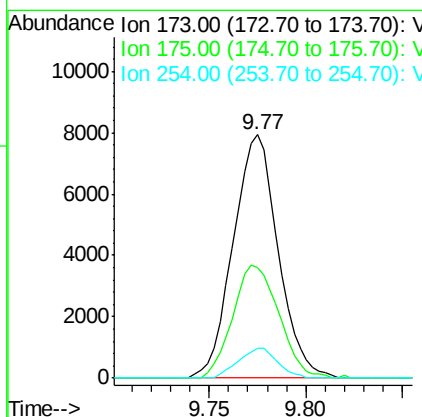
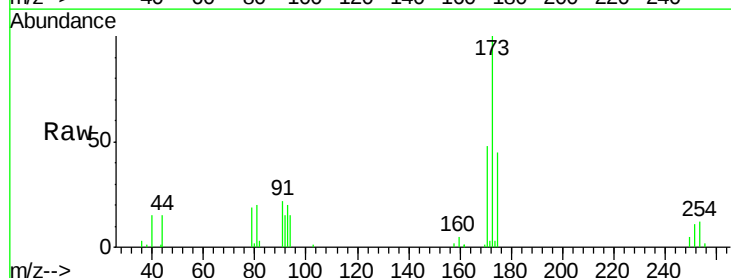
Manual Integrations
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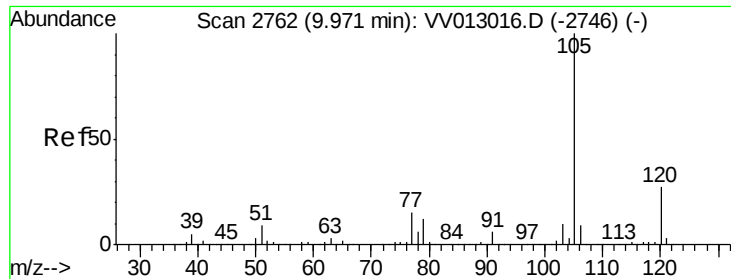
MMDadoda
 10/9/2019 3:10:22 PM



#59
 Bromoform
 Concen: 1.912 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.6	38.9	58.3
254	10.7	9.4	14.0





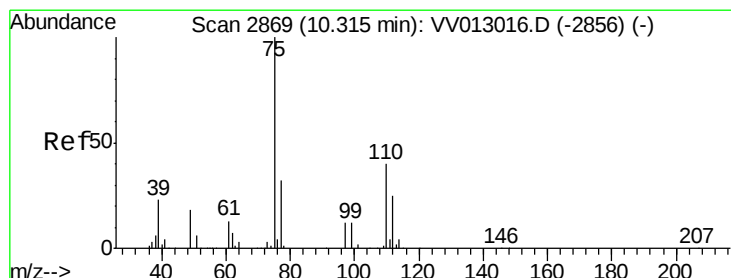
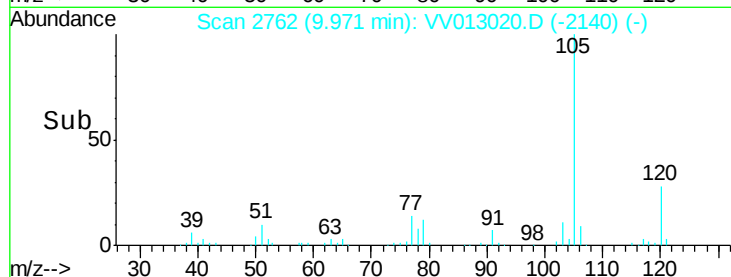
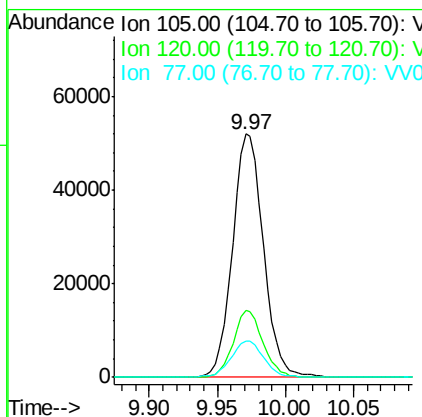
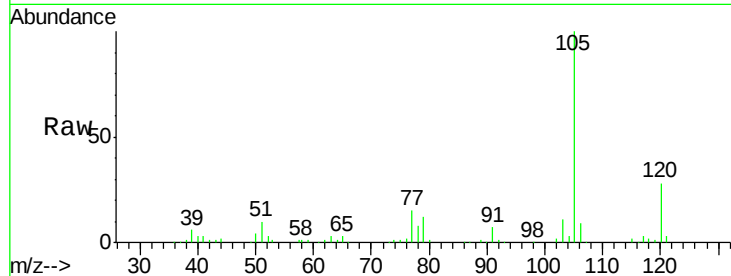
#60
Isopropylbenzene
Concen: 1.730 ug/L
RT: 9.97 min Scan# 2762
Delta R.T. 0.00 min
Lab File: VV013020.D
Acq: 30 Sep 2019 16:18

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.1	31.7
77	16.0	12.3	18.5

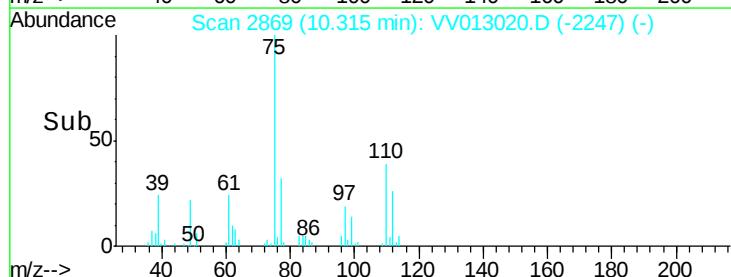
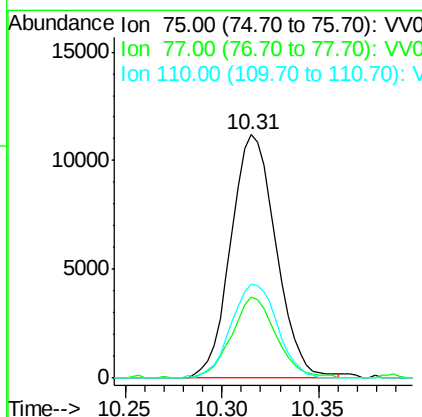
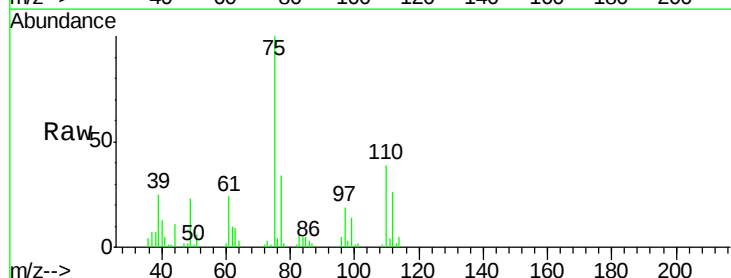
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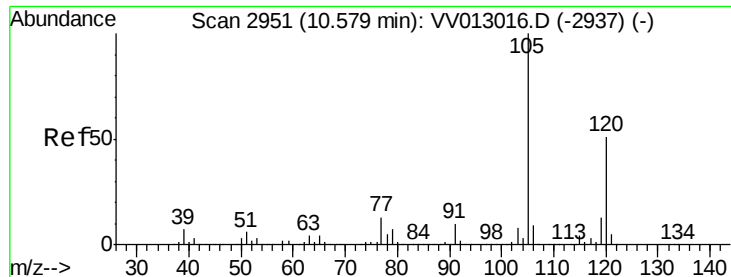
MMDadoda
10/9/2019 3:10:22 PM



#61
1,2,3-Trichloropropane
Concen: 2.043 ug/L
RT: 10.31 min Scan# 2869
Delta R.T. -0.00 min
Lab File: VV013020.D
Acq: 30 Sep 2019 16:18

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.4	38.2
110	39.2	31.7	47.5





#62

1,3,5-Trimethylbenzene

Concen: 1.612 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. 0.00 min

Lab File: VV013020.D

Acq: 30 Sep 2019 16:18

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion:105 Resp: 61398

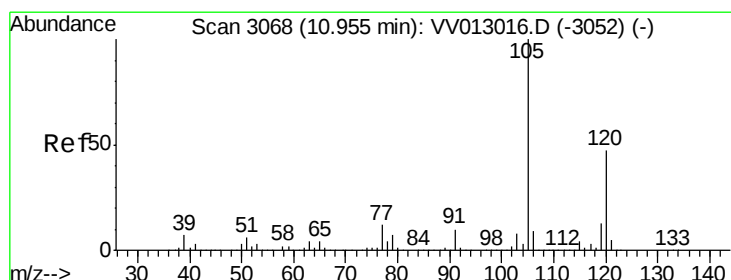
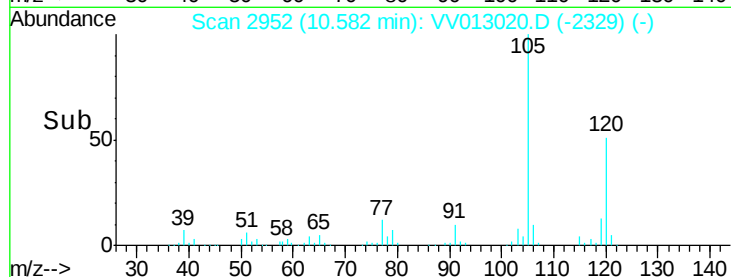
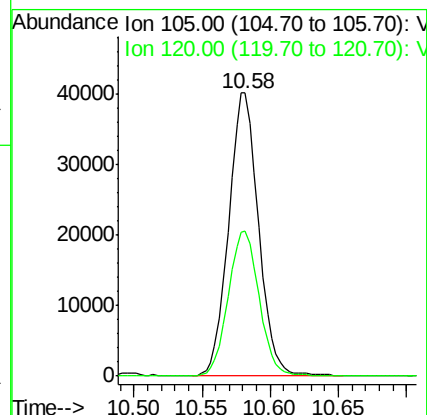
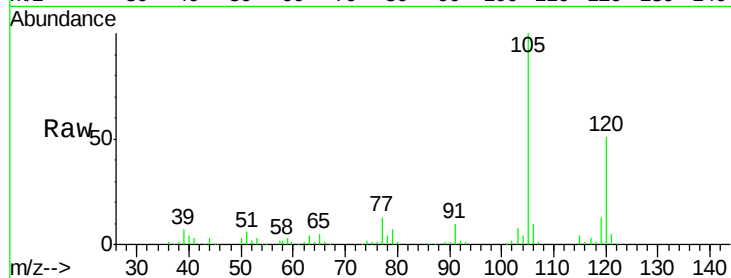
Ion Ratio Lower Upper

105 100

120 52.8 40.6 61.0

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#63

1,2,4-Trimethylbenzene

Concen: 1.607 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. 0.00 min

Lab File: VV013020.D

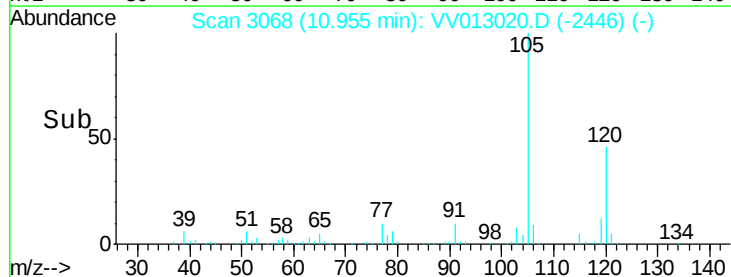
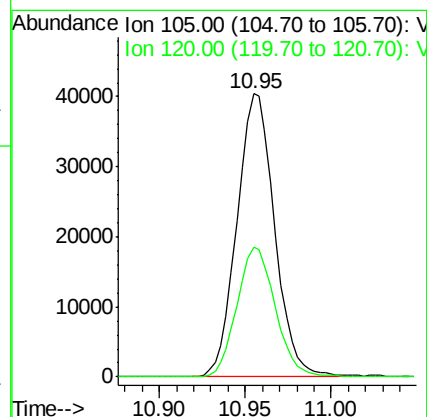
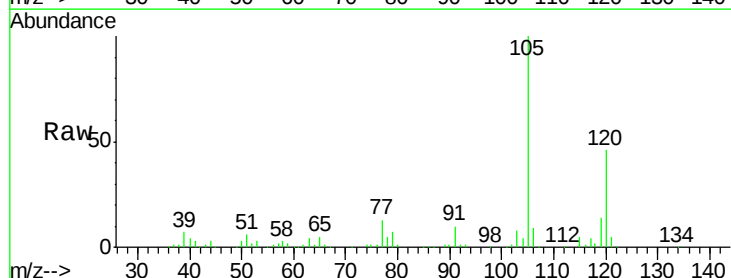
Acq: 30 Sep 2019 16:18

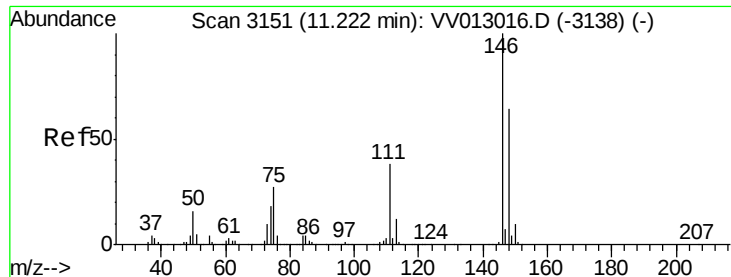
Tgt Ion:105 Resp: 61475

Ion Ratio Lower Upper

105 100

120 46.7 37.1 55.7





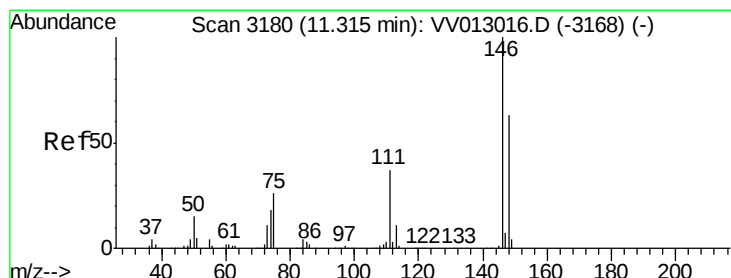
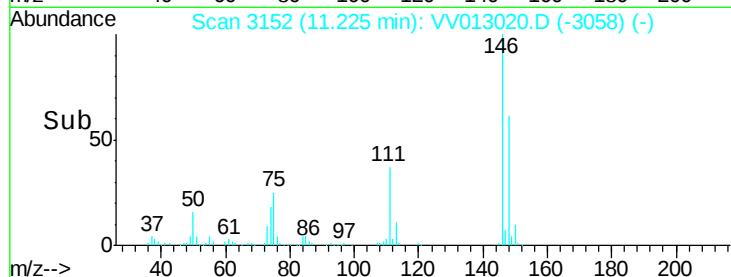
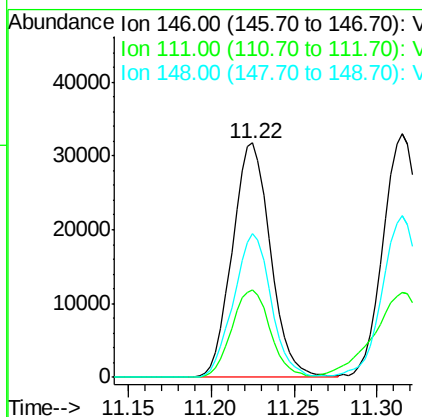
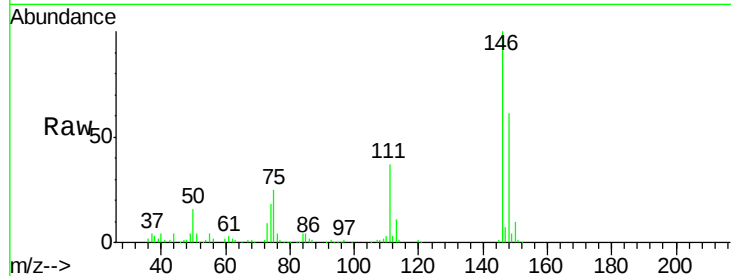
#64
 1,3-Dichlorobenzene
 Concen: 2.054 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.2	27.0	50.2
148	61.3	44.7	83.1

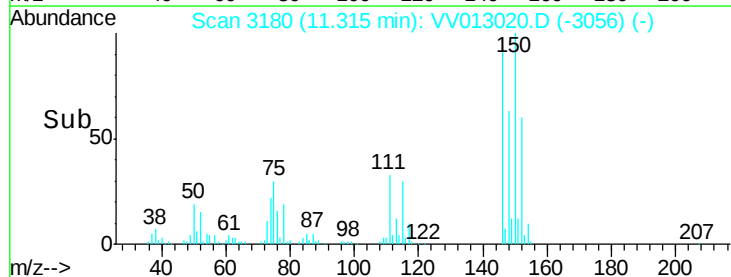
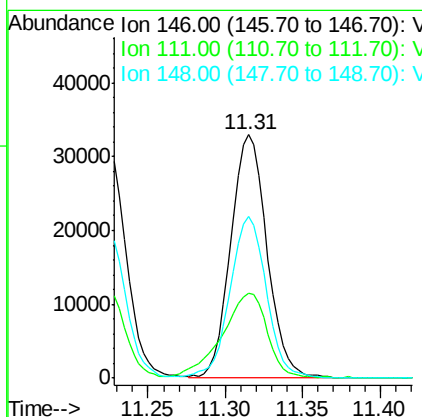
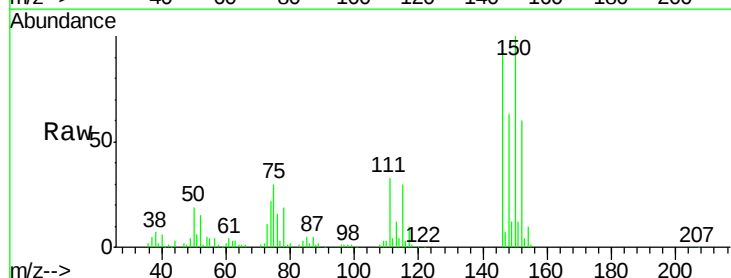
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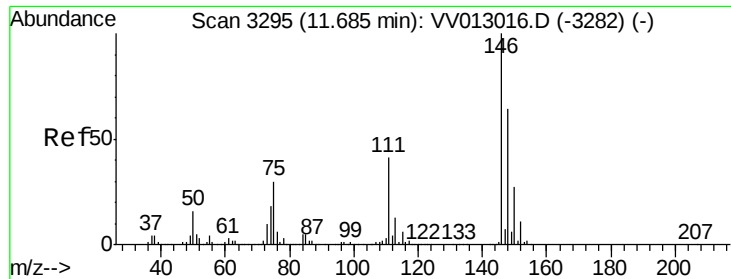
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#65
 1,4-Dichlorobenzene
 Concen: 2.060 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.8	25.4	47.2
148	66.4	44.2	82.2





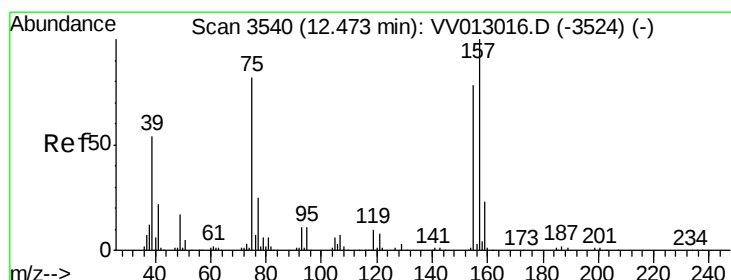
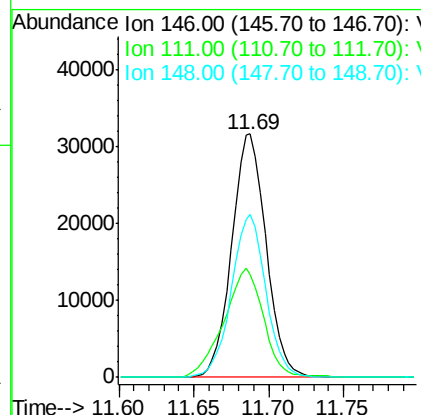
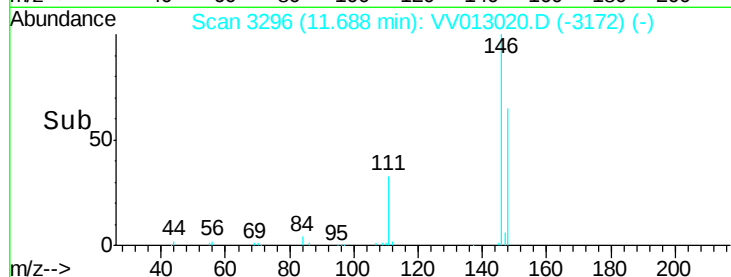
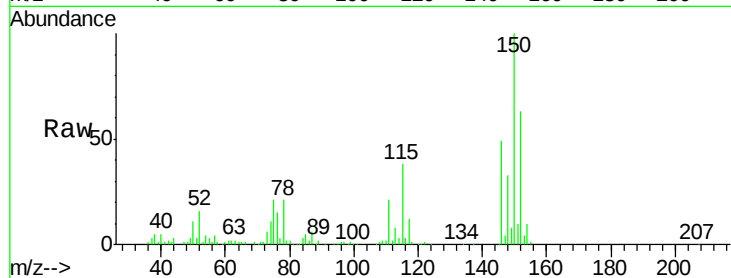
#67
 1,2-Dichlorobenzene
 Concen: 2.142 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	32.0	48.0
148	66.7	50.8	76.2

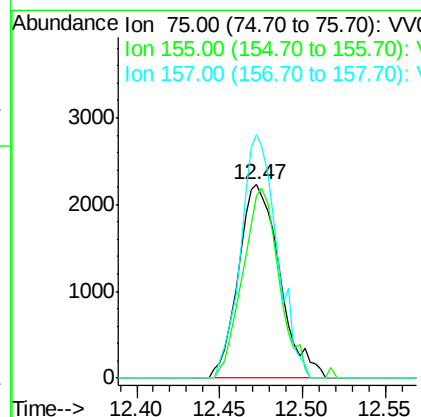
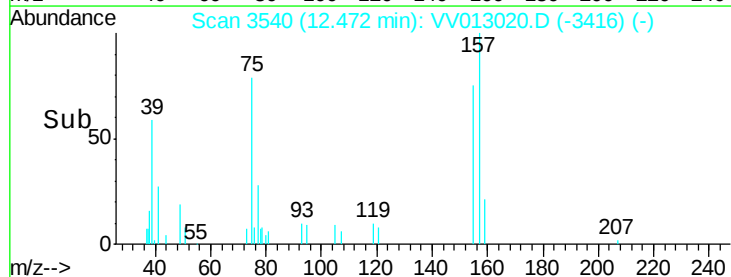
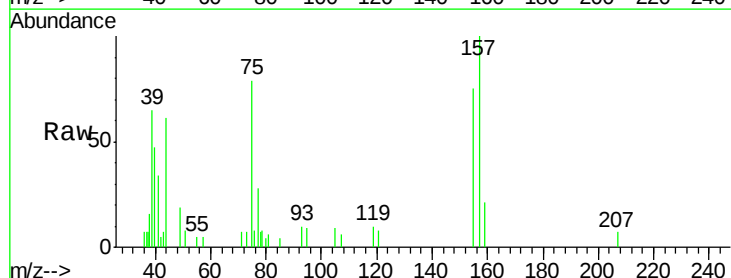
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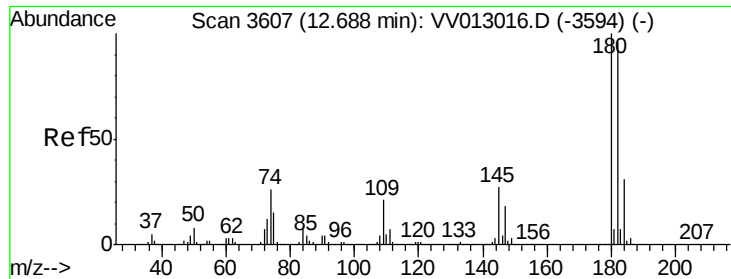
MMDadoda
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.997 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.9	74.4	111.6
157	125.9	95.8	143.6





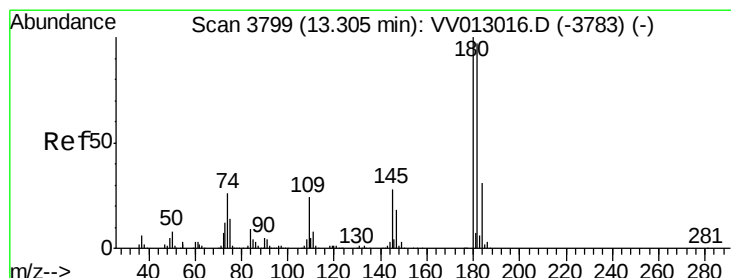
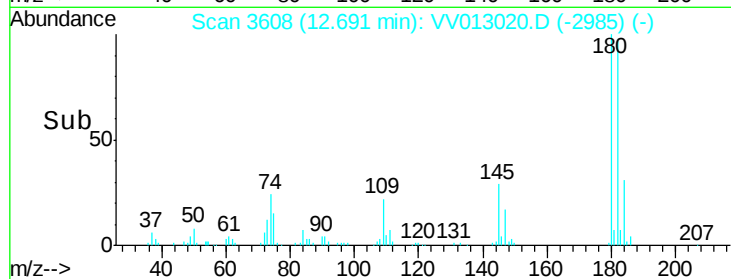
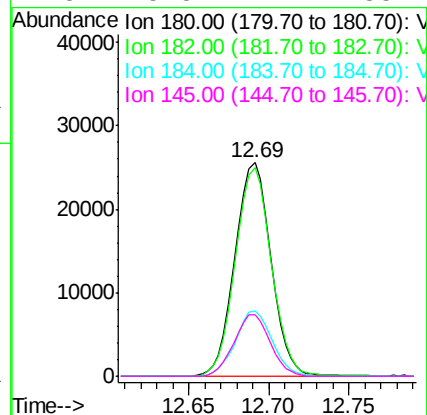
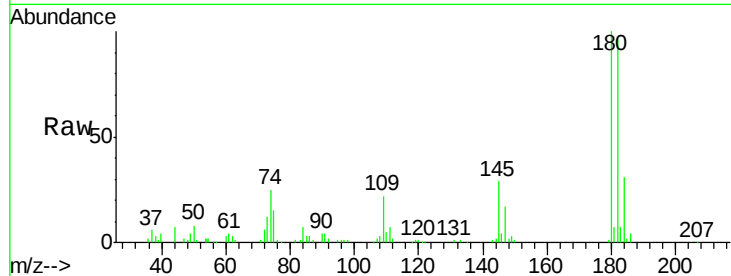
#69
 1,3,5-Trichlorobenzene
 Concen: 1.971 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	39372		
182	97.5	76.6	115.0	
184	30.8	24.6	37.0	
145	28.8	22.2	33.4	

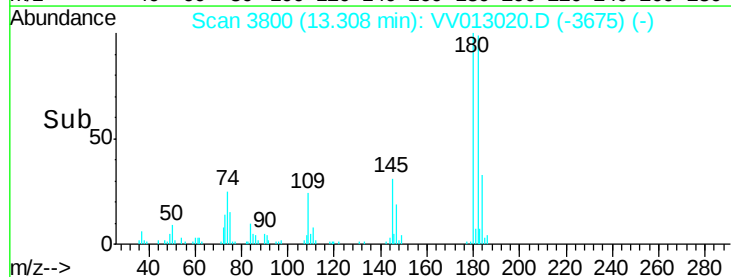
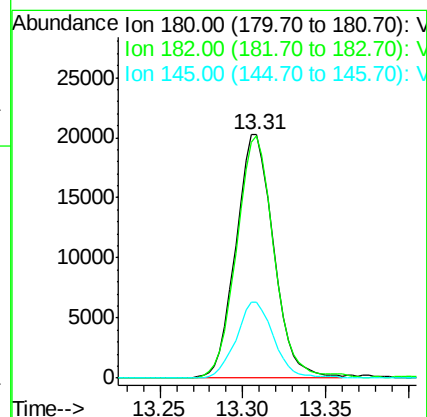
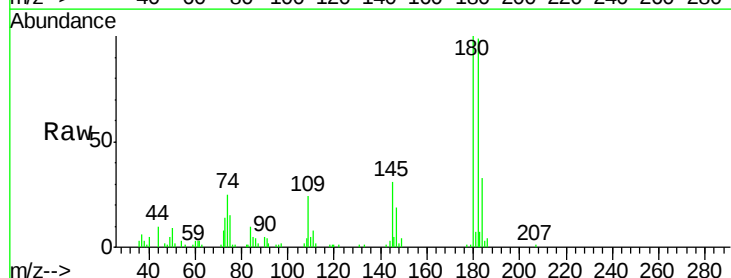
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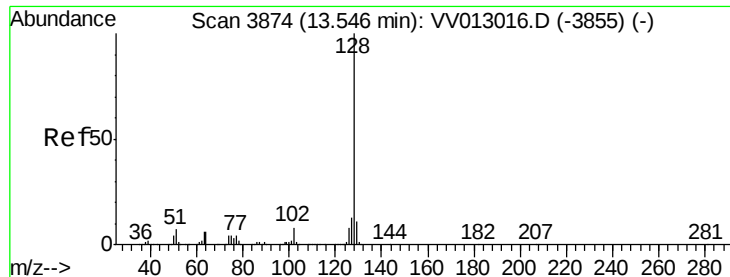
MMDadoda
 10/9/2019 3:10:22 PM



#70
 1,2,4-trichlorobenzene
 Concen: 1.865 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013020.D
 Acq: 30 Sep 2019 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	32206		
182	97.5	76.0	114.0	
145	30.9	22.5	33.7	





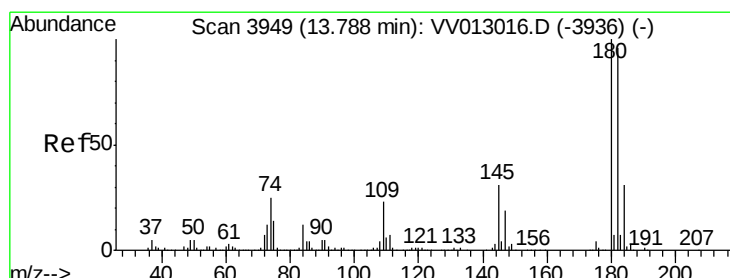
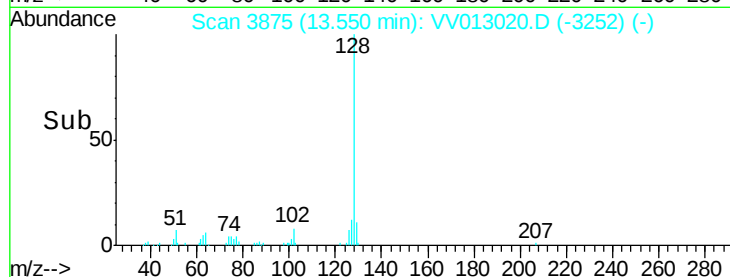
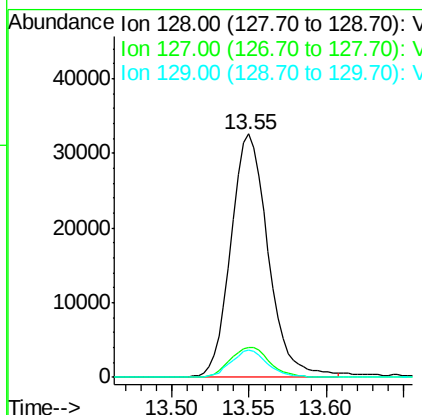
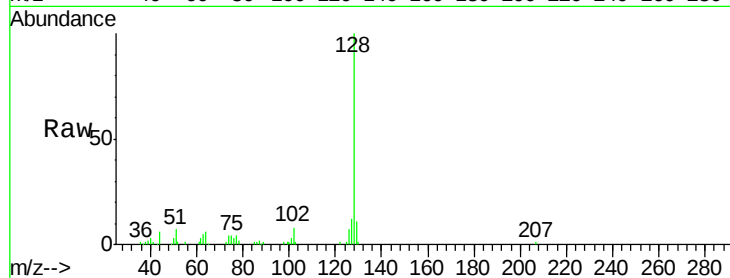
#71
Naphthalene
Concen: 1.624 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV013020.D
Acq: 30 Sep 2019 16:18

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Resp	Lower	Upper
128	100	54652		
127	12.8		10.2	15.4
129	10.9		8.6	12.8

Manual Integrations
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#72
1,2,3-Trichlorobenzene
Concen: 1.890 ug/L
RT: 13.79 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VV013020.D
Acq: 30 Sep 2019 16:18

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	31493		
182	97.8		76.7	115.1
145	30.0		24.2	36.4

