

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080619\
 Data File : VV012117.D
 Acq On : 06 Aug 2019 16:20
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.00µ/5.0mL/100µL/5mL/MSVOA_V/MEOH
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 8/7/2019 9:11:01 AM

Quant Time: Aug 06 18:46:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 06 18:20:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	270453	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	249147	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	124464	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	67813	45.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.74%
7) Chloroethane-d5	1.58	69	46266	44.09	ug/L	0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.18%
11) 1,1-Dichloroethene-d2	2.13	63	92577	36.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.24%
21) 2-Butanone-d5	3.92	46	119041	110.51	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.51%
24) Chloroform-d	4.40	84	181190	48.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.70%
26) 1,2-Dichloroethane-d4	5.08	65	120257	50.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.94%
32) Benzene-d6	5.10	84	355637	49.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.20%
36) 1,2-Dichloropropane-d6	6.12	67	104212	50.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.36%
41) Toluene-d8	7.36	98	341265	49.37	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.74%
43) trans-1,3-Dichloropropene-	7.66	79	58374	49.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.86%
47) 2-Hexanone-d5	8.13	63	93663	108.59	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.59%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	146896	50.18	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.36%
66) 1,2-Dichlorobenzene-d4	11.67	152	148710	50.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	4288	2.245	ug/L	94
3) Chloromethane	1.25	50	3509	2.587	ug/L	97
5) Vinyl chloride	1.32	62	3004	2.294	ug/L #	55
6) Bromomethane	1.52	94	1816	2.389	ug/L	88
8) Chloroethane	1.59	64	1422	2.074	ug/L	92
9) Trichlorofluoromethane	1.77	101	4448	2.090	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3166	3.034	ug/L #	75
12) 1,1-Dichloroethene	2.14	96	2406	2.449	ug/L #	1
13) Acetone	2.19	43	2707	3.686	ug/L	92
14) Carbon disulfide	2.32	76	7438	2.240	ug/L	98
15) Methyl Acetate	2.46	43	2730	2.124	ug/L	97
16) Methylene chloride	2.54	84	3552	2.382	ug/L	83
17) trans-1,2-Dichloroethene	2.79	96	2985	2.151	ug/L	90
18) Methyl tert-butyl Ether	2.80	73	10520m	2.207	ug/L	
19) 1,1-Dichloroethane	3.23	63	5571	2.202	ug/L	94
20) cis-1,2-Dichloroethene	3.96	96	3409	2.086	ug/L	99
22) 2-Butanone	4.02	43	3865	4.083	ug/L #	63

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	2169	2.414	ug/L	84
25) Chloroform	4.42	83	8360	2.915	ug/L	96
27) 1,2-Dichloroethane	5.18	62	4853	2.177	ug/L	97
29) Cyclohexane	4.72	56	2457	1.179	ug/L #	80
30) 1,1,1-Trichloroethane	4.66	97	6145	2.322	ug/L #	73
31) Carbon tetrachloride	4.87	117	5365	2.185	ug/L	99
33) Benzene	5.15	78	13202	2.302	ug/L	100
34) Trichloroethene	5.96	95	3471	2.177	ug/L	88
35) Methylcyclohexane	6.18	83	5086	2.144	ug/L	95
37) 1,2-Dichloropropane	6.22	63	3395	2.427	ug/L	97
38) Bromodichloromethane	6.56	83	4464	2.028	ug/L #	91
39) cis-1,3-Dichloropropene	7.07	75	5359	2.173	ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	8609	4.782	ug/L #	90
42) Toluene	7.43	91	15475	2.428	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	4776	2.051	ug/L	94
45) 1,1,2-Trichloroethane	7.88	97	3635	2.411	ug/L	95
46) Tetrachloroethene	8.02	164	3261	2.196	ug/L	97
48) 2-Hexanone	8.18	43	7535	5.551	ug/L #	91
49) Dibromochloromethane	8.29	129	4480	2.289	ug/L	91
50) 1,2-Dibromoethane	8.40	107	3728	2.235	ug/L	94
51) Chlorobenzene	8.92	112	10310	2.400	ug/L	93
52) Ethylbenzene	9.05	91	16001	2.238	ug/L	100
53) m,p-Xylene	9.18	106	5758	2.087	ug/L	99
54) o-Xylene	9.59	106	6450	2.356	ug/L	95
55) Styrene	9.60	104	9834	2.133	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.29	83	6504	2.805	ug/L	99
59) Bromoform	9.77	173	3322	2.275	ug/L #	97
60) Isopropylbenzene	9.97	105	15759	2.313	ug/L	97
61) 1,2,3-Trichloropropane	10.31	75	4362	2.581	ug/L	98
62) 1,3,5-Trimethylbenzene	10.58	105	12872	2.185	ug/L	94
63) 1,2,4-Trimethylbenzene	10.96	105	12427	2.138	ug/L	98
64) 1,3-Dichlorobenzene	11.22	146	8132	2.365	ug/L	97
65) 1,4-Dichlorobenzene	11.32	146	8803	2.533	ug/L	94
67) 1,2-Dichlorobenzene	11.69	146	8910	2.540	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.48	75	1275	2.289	ug/L #	76
69) 1,3,5-Trichlorobenzene	12.69	180	6797	2.439	ug/L	92
70) 1,2,4-trichlorobenzene	13.31	180	4260	1.763	ug/L #	85
71) Naphthalene	13.55	128	9080	1.483	ug/L #	86
72) 1,2,3-Trichlorobenzene	13.79	180	4276	1.758	ug/L	99

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

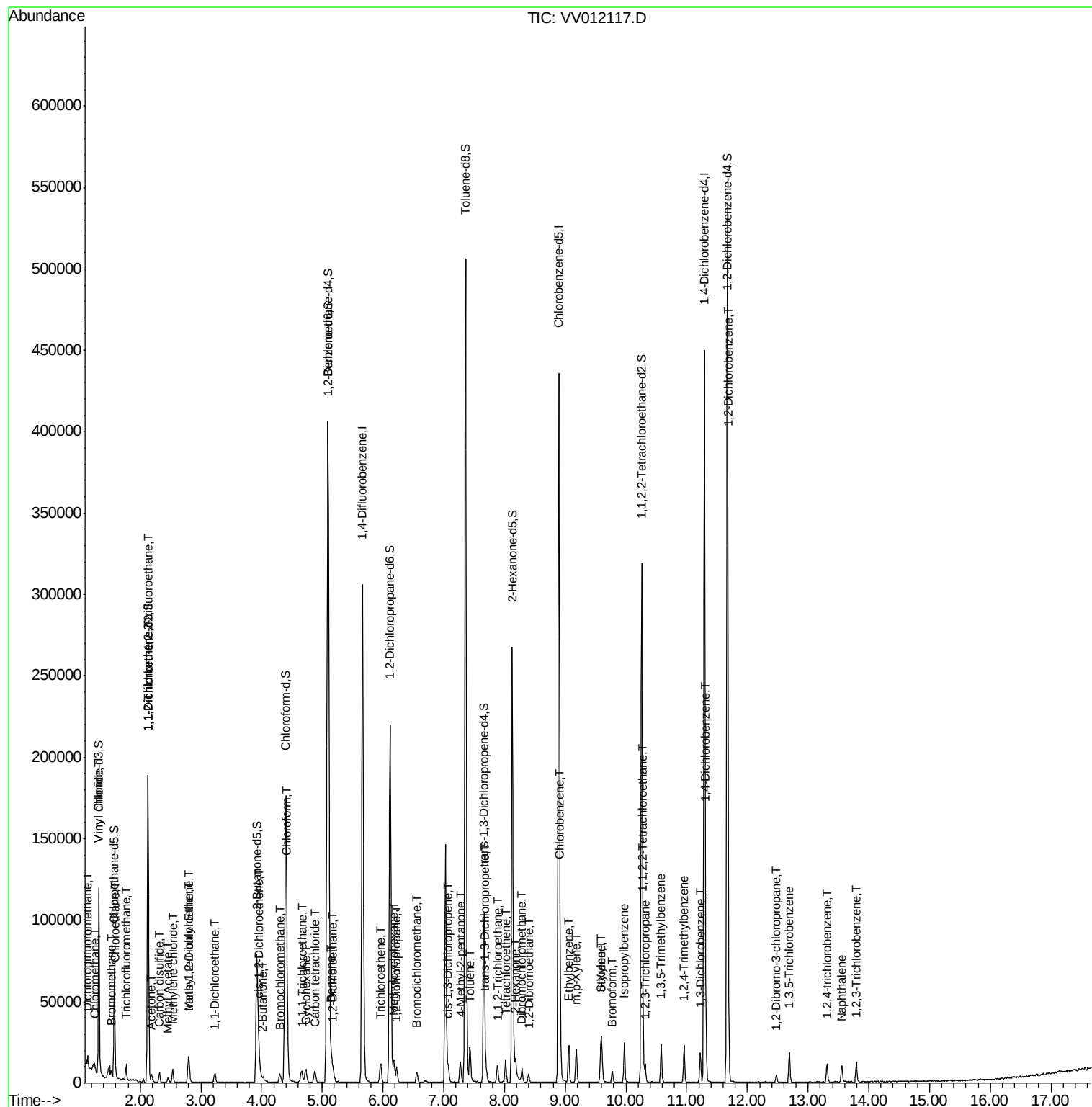
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_V\DATA\VV080619\
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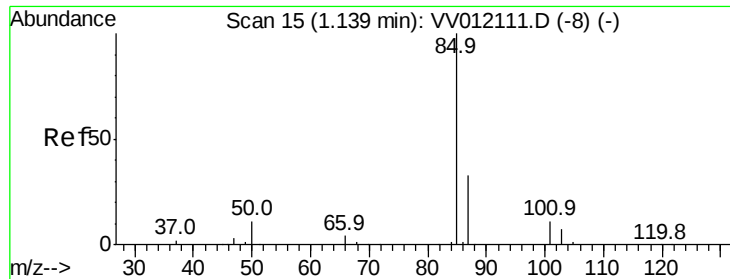
Instrument :
 MSVOA_V
 ClientSampleID :
 MDL02

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#2

Dichlorodifluoromethane

Concen: 2.245 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 85 Resp: 4288

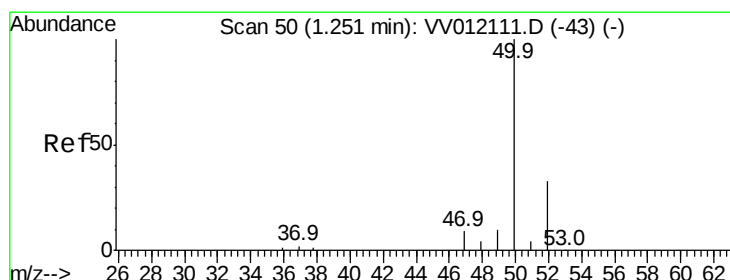
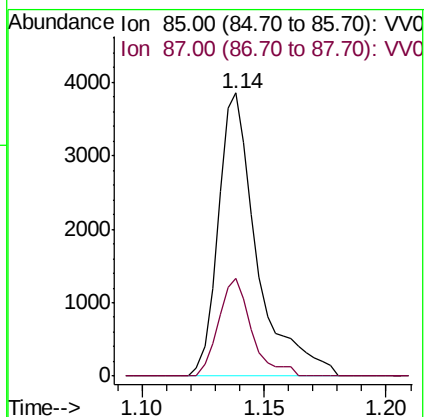
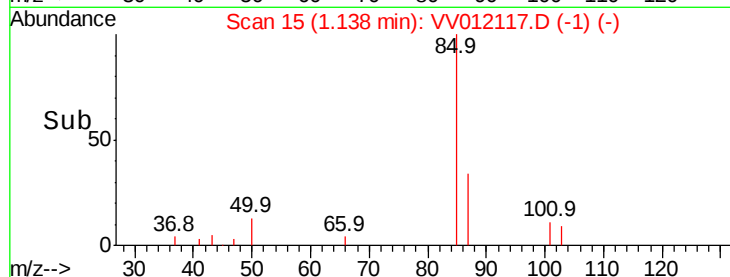
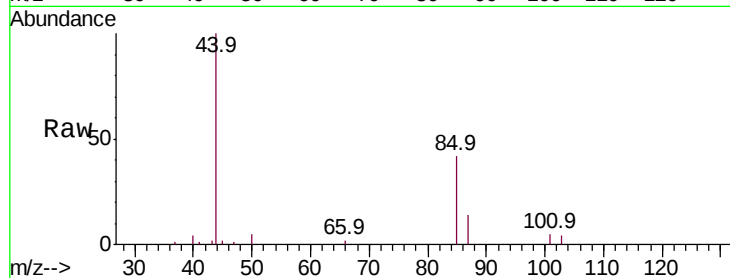
Ion Ratio Lower Upper

85 100

87 28.5 25.3 37.9

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#3

Chloromethane

Concen: 2.587 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012117.D

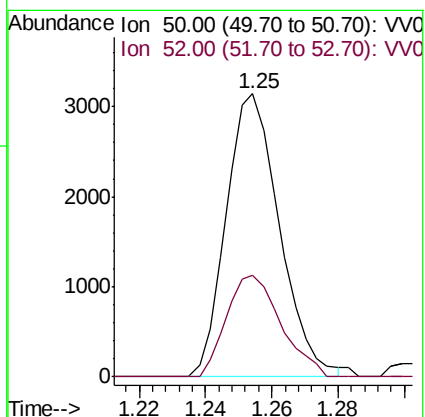
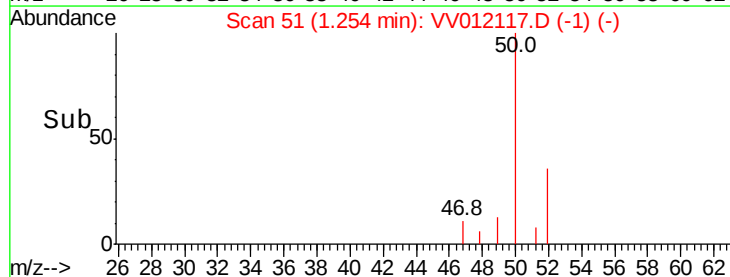
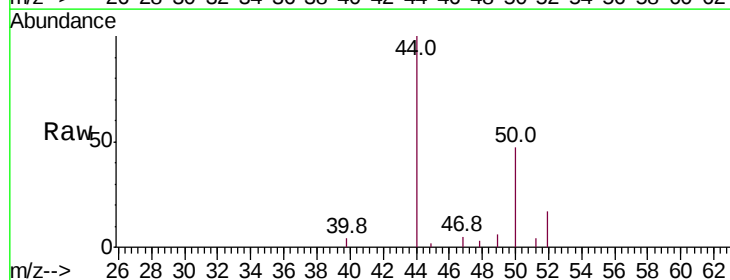
Acq: 06 Aug 2019 16:20

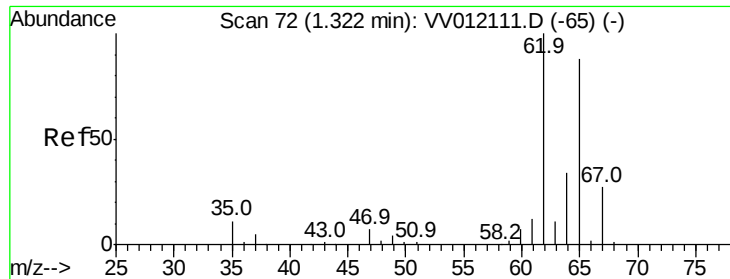
Tgt Ion: 50 Resp: 3509

Ion Ratio Lower Upper

50 100

52 35.9 23.9 44.3





#5

Vinyl chloride

Concen: 2.294 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 62 Resp: 3004

Ion Ratio Lower Upper

62 100

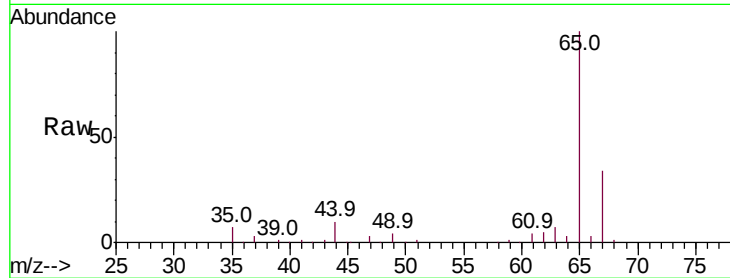
64 58.2 23.0 42.8#

Manual Integrations

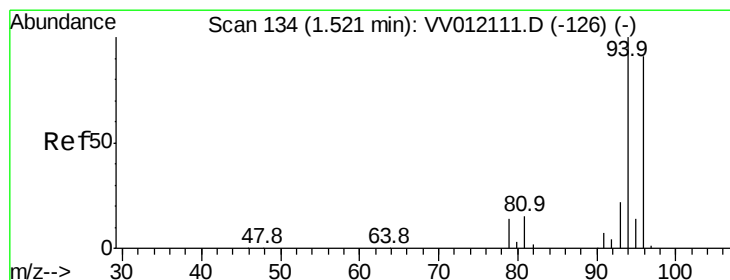
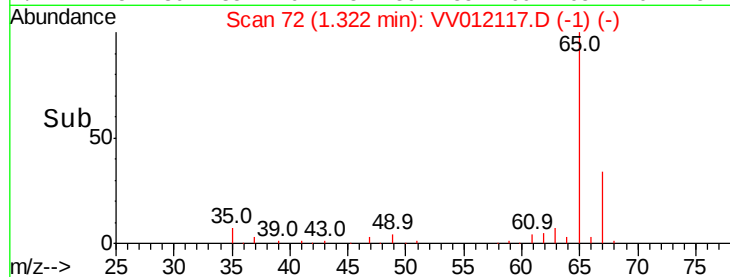
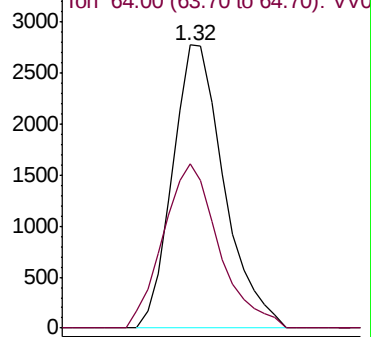
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Abundance Ion 62.00 (61.70 to 62.70): VV012111.D (-65) (-)



#6

Bromomethane

Concen: 2.389 ug/L

RT: 1.52 min Scan# 134

Delta R.T. 0.01 min

Lab File: VV012117.D

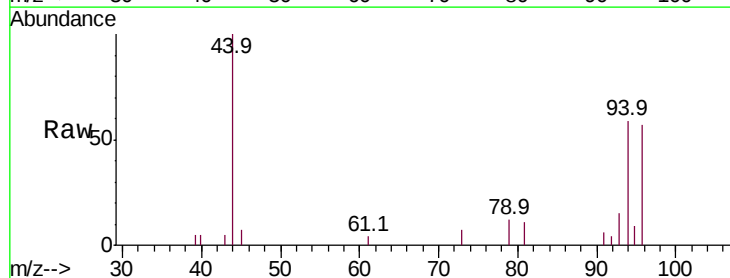
Acq: 06 Aug 2019 16:20

Tgt Ion: 94 Resp: 1816

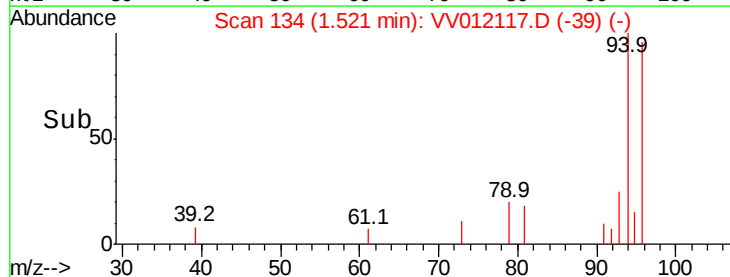
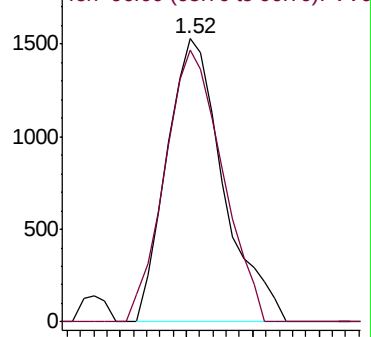
Ion Ratio Lower Upper

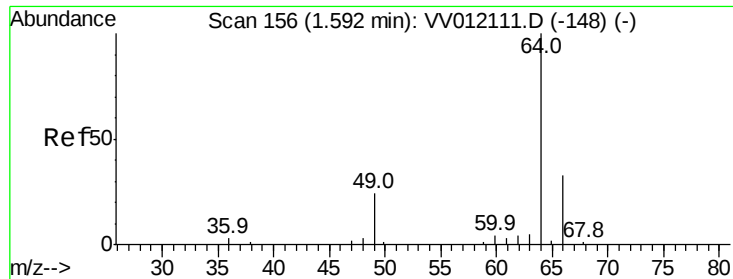
94 100

96 84.0 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV012111.D (-126) (-)





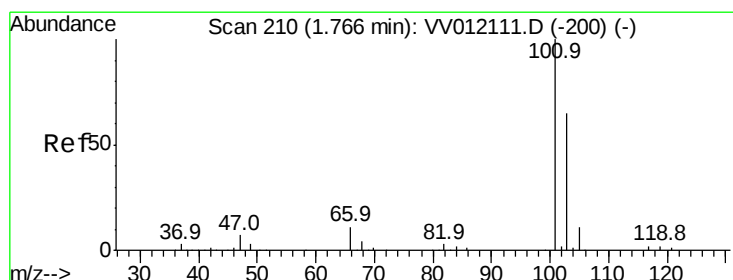
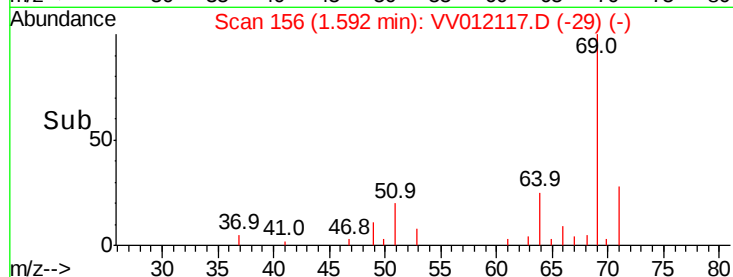
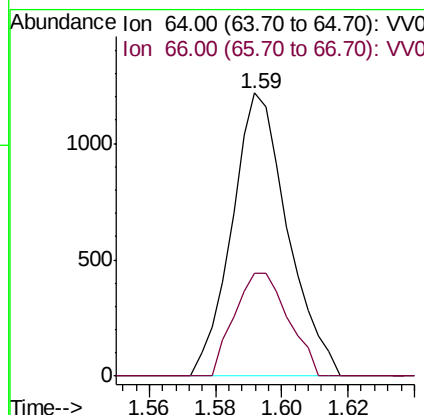
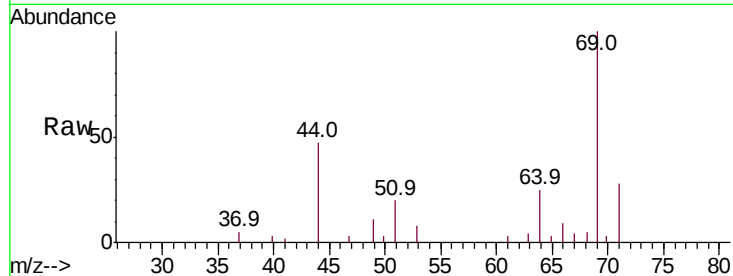
#8
Chloroethane
Concen: 2.074 ug/L
RT: 1.59 min Scan# 156
Delta R.T. 0.01 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Instrument :
MSVOA_V
ClientSampled :
MDL02

Tot Ion: 64 Resp: 1422
Ion Ratio Lower Upper
64 100
66 36.5 22.6 42.0

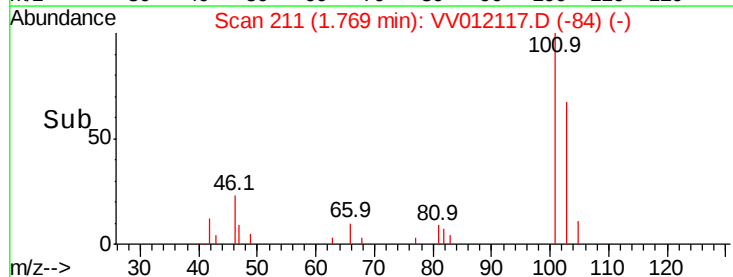
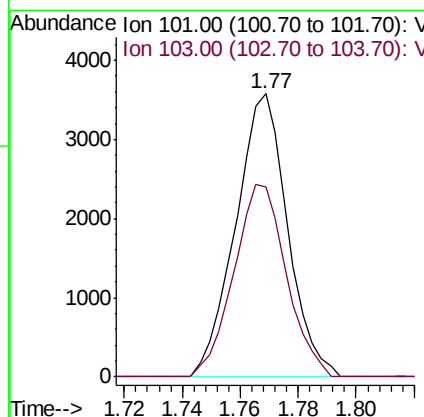
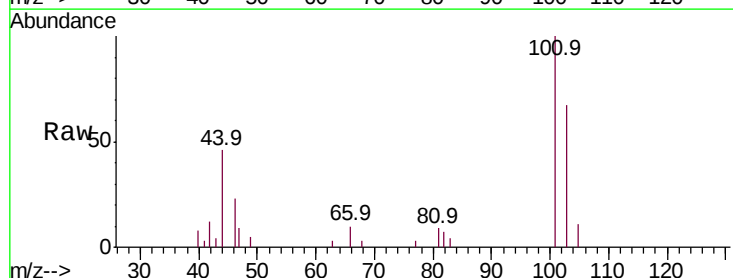
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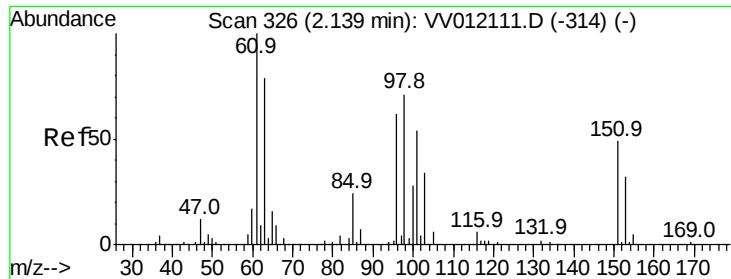
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#9
Trichlorofluoromethane
Concen: 2.090 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.01 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Tgt Ion: 101 Resp: 4448
Ion Ratio Lower Upper
101 100
103 68.8 52.5 78.7





#10

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

Concen: 3.034 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

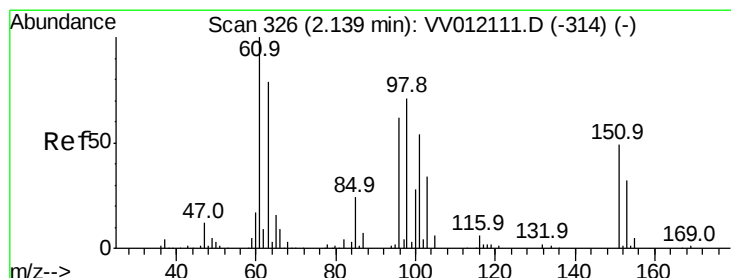
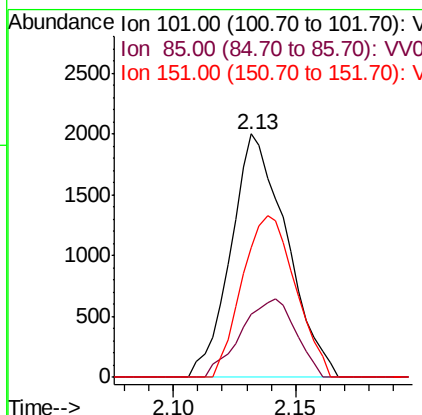
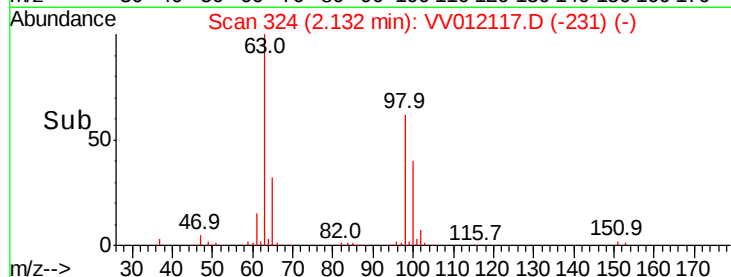
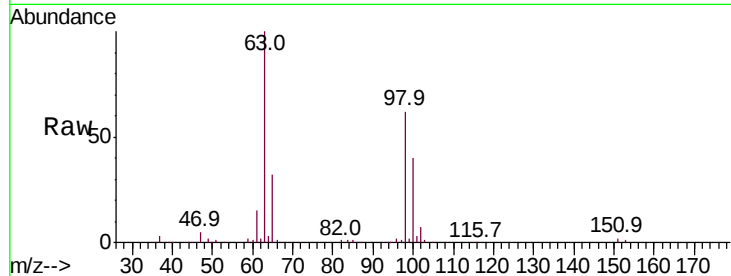
ClientSampled :

MDL02

Tot Ion	Ratio	Lower	Upper
101	100		
85	31.7	34.4	51.6#
151	63.5	72.2	108.2#

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#12

1,1-Dichloroethene

Concen: 2.449 ug/L

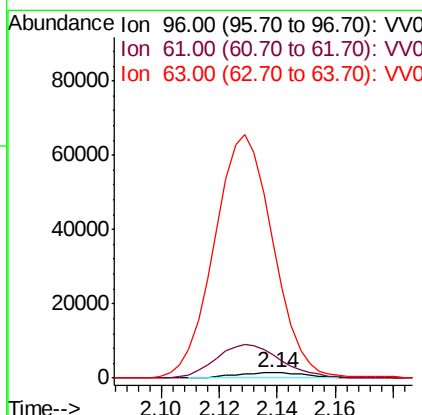
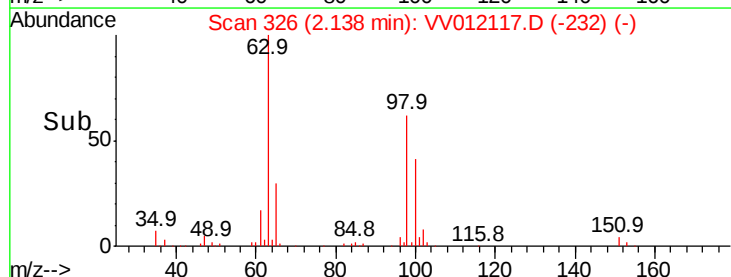
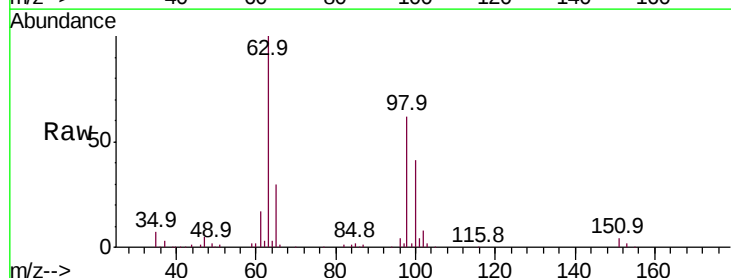
RT: 2.14 min Scan# 326

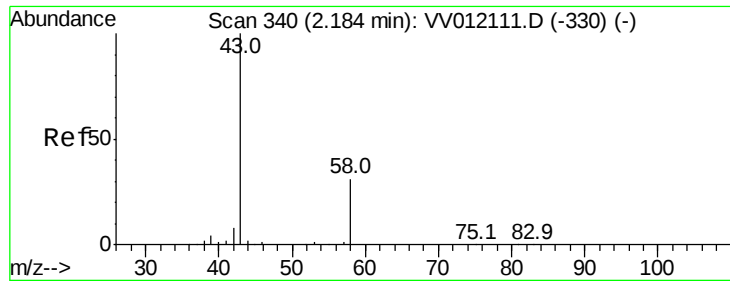
Delta R.T. 0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	438.6	120.0	223.0#
63	2542.0	98.3	182.7#





#13

Acetone

Concen: 3.686 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 43 Resp: 2707

Ion Ratio Lower Upper

43 100

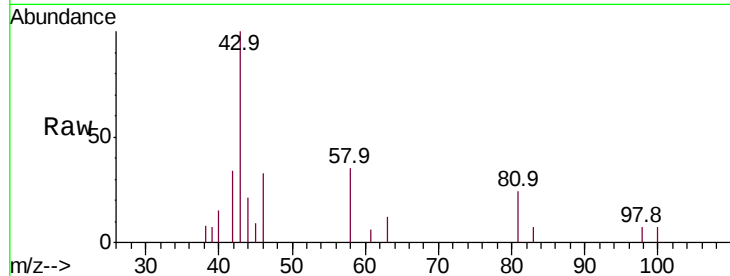
58 34.1 0.0 59.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2000

1500

1000

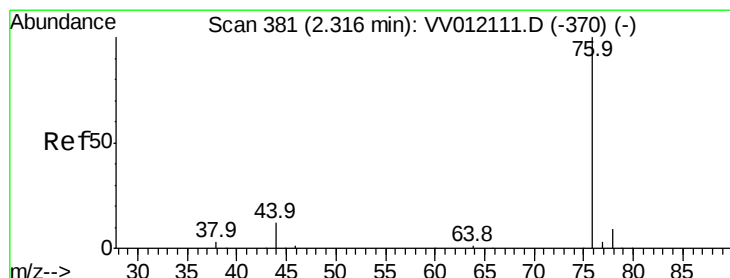
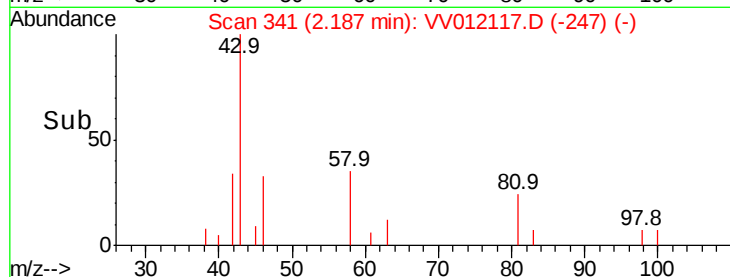
500

0

2.15

2.20

Time-->



#14

Carbon disulfide

Concen: 2.240 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV012117.D

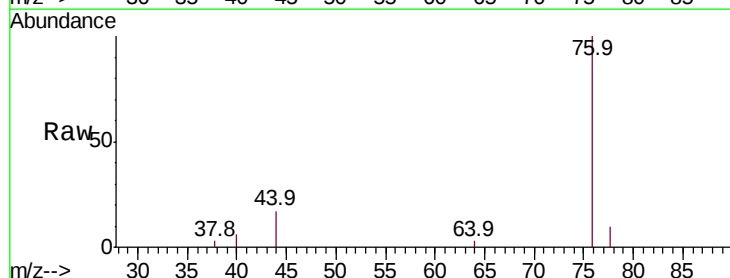
Acq: 06 Aug 2019 16:20

Tgt Ion: 76 Resp: 7438

Ion Ratio Lower Upper

76 100

78 9.5 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

6000

5000

4000

3000

2000

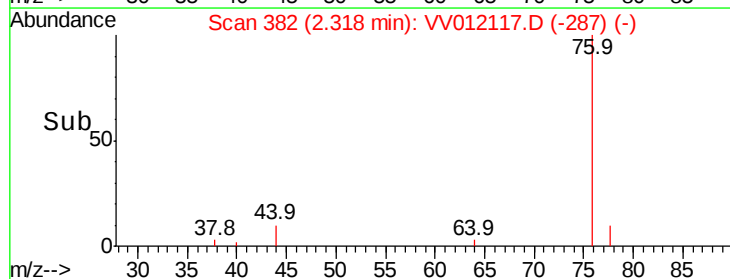
1000

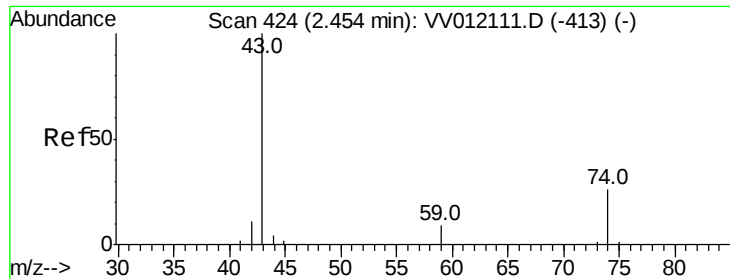
0

2.30

2.35

Time-->





#15

Methyl Acetate

Concen: 2.124 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.01 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Tot Ion: 43 Resp: 2730

Ion Ratio Lower Upper

43 100

74 29.0 21.8 32.6

Instrument :

MSVOA_V

ClientSampled :

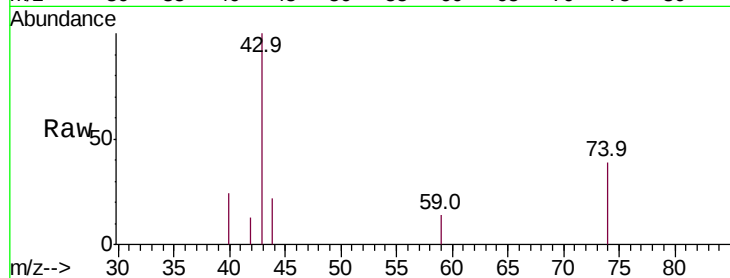
MDL02

Manual Integrations

APPROVED

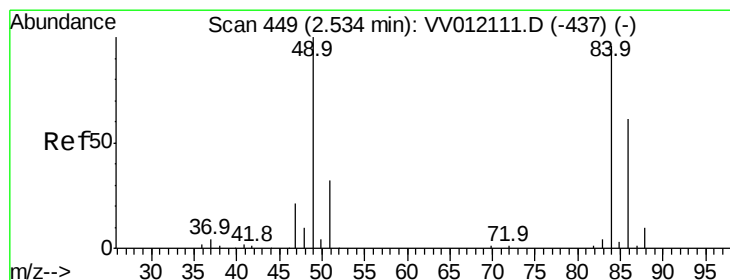
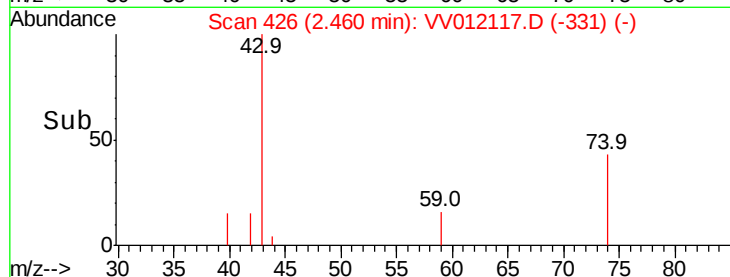
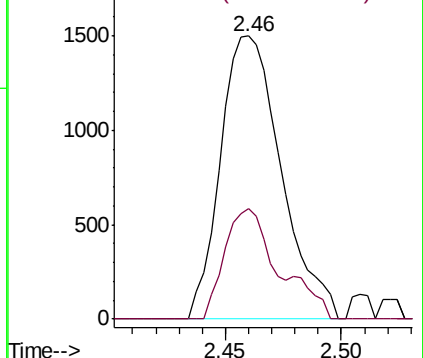
MMDadoda

8/7/2019 9:11:01 AM



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 2.382 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

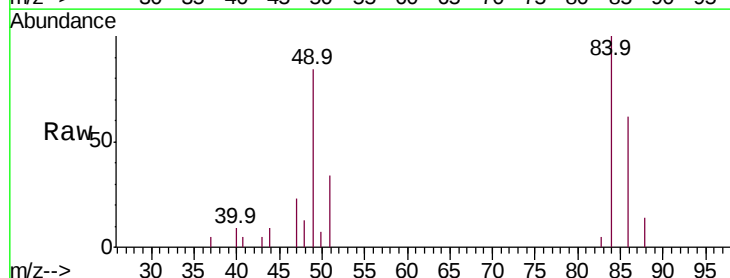
Tgt Ion: 84 Resp: 3552

Ion Ratio Lower Upper

84 100

86 62.5 45.7 84.9

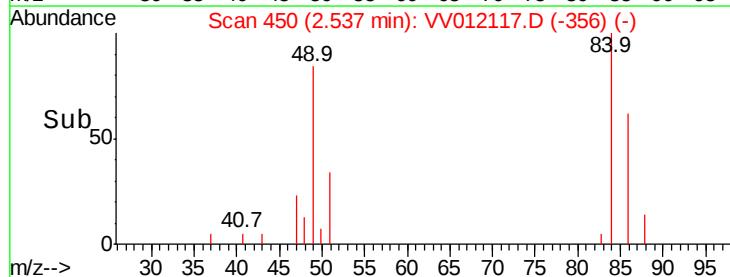
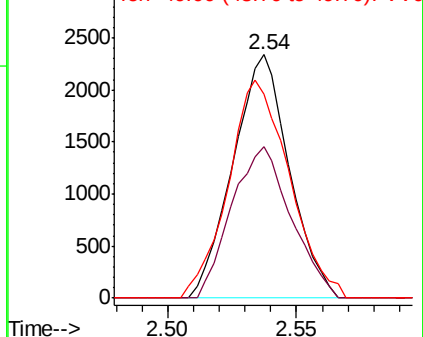
49 83.8 76.6 142.2

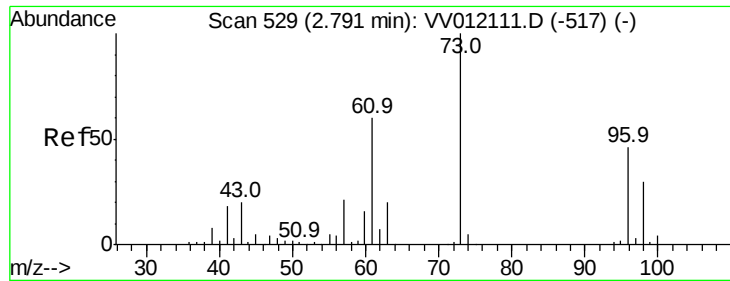


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 2.151 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.01 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

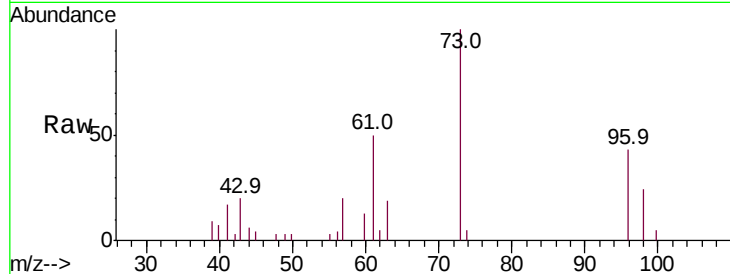
ClientSampled :

MDL02

Tot Ion:	96	Resp:	2985
Ion	Ratio	Lower	Upper
96	100		
61	117.3	90.6	168.3
98	57.0	44.2	82.2

Manual Integrations
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MMDadoda
8/7/2019 9:11:01 AM

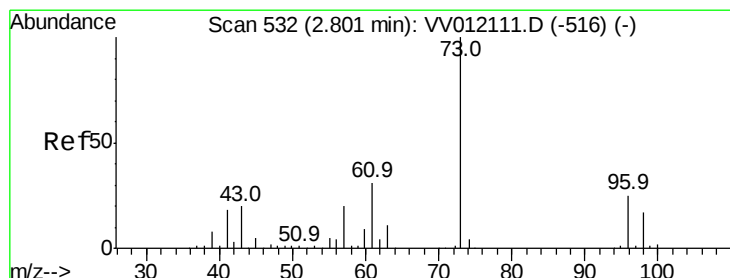
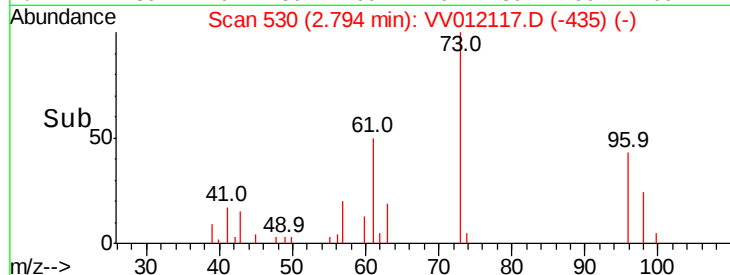
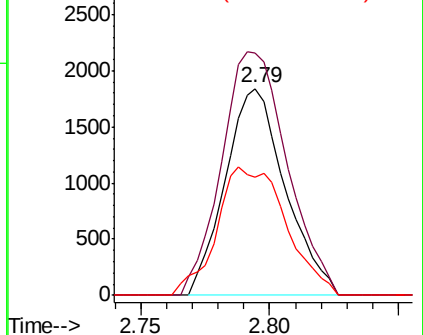


Abundance

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: 2.207 ug/L m

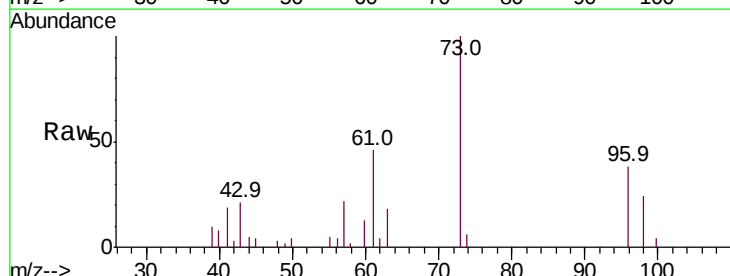
RT: 2.80 min Scan# 531

Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Tgt Ion:	73	Resp:	10520
Ion	Ratio	Lower	Upper
73	100		
43	18.1	15.6	23.4
57	21.1	16.0	24.0

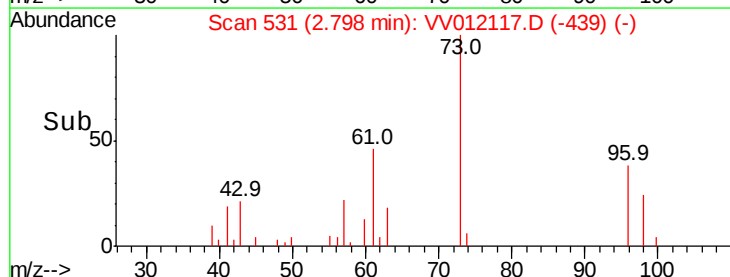
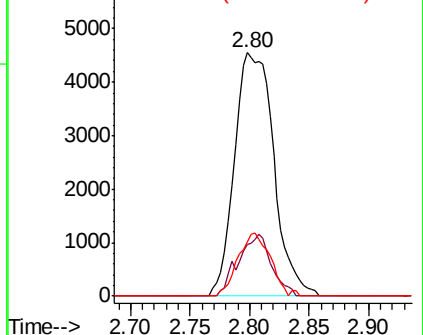


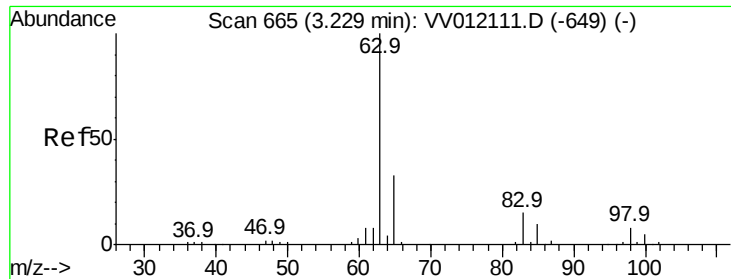
Abundance

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





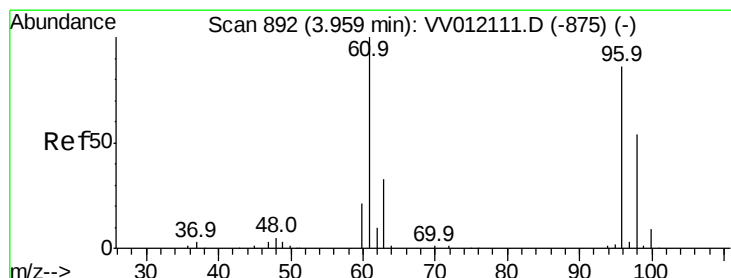
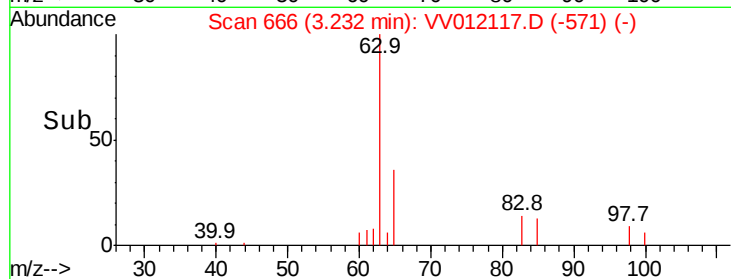
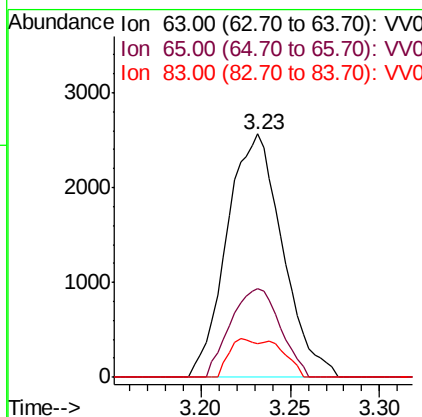
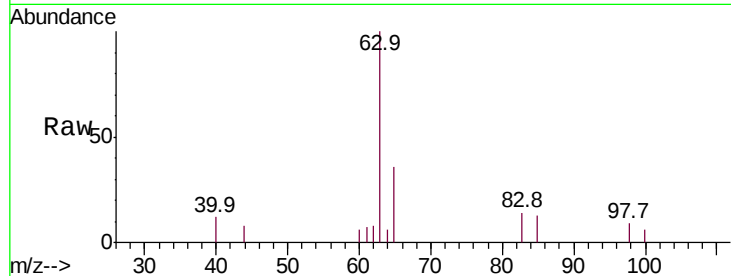
#19
 1,1-Dichloroethane
 Concen: 2.202 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
63	100		
65	36.2	22.3	41.3
83	13.8	10.3	19.1

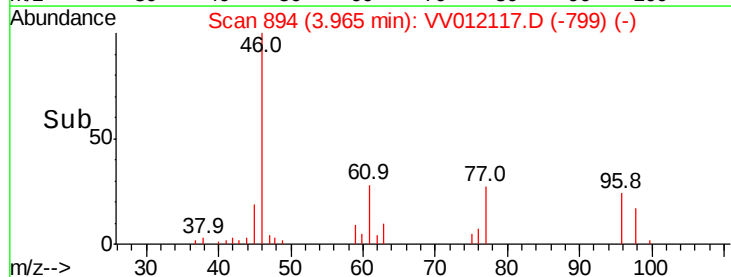
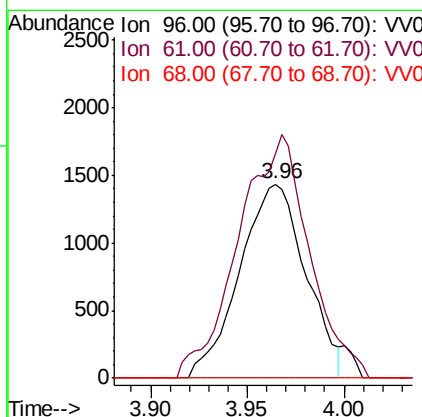
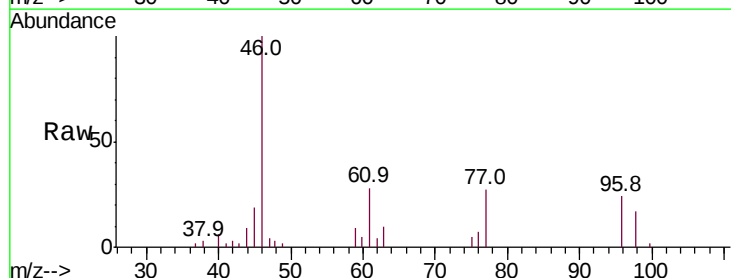
Manual Integrations
 APPROVED

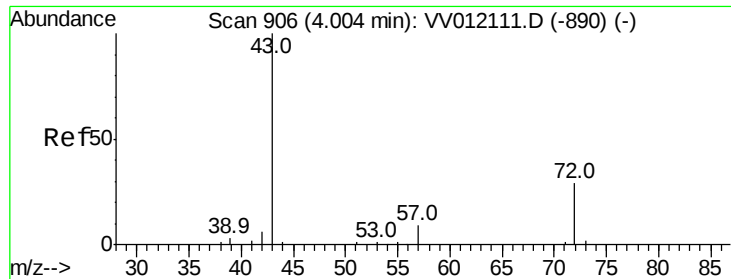
MMDadoda
 8/7/2019 9:11:01 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.086 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. 0.01 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Tgt Ion	Ratio	Lower	Upper
96	100		
61	115.8	80.0	148.6
68	0.0	0.0	0.0





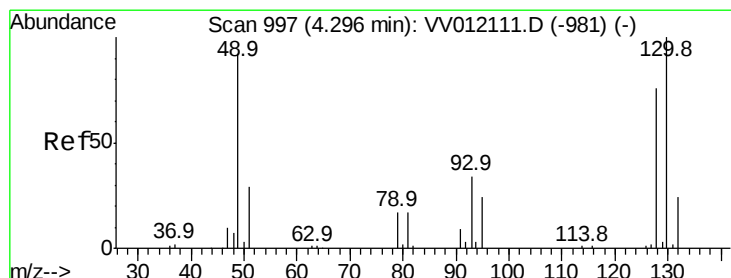
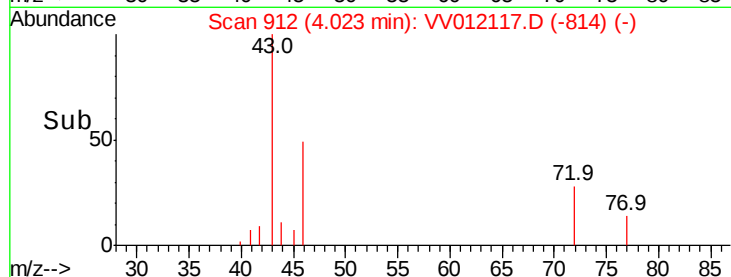
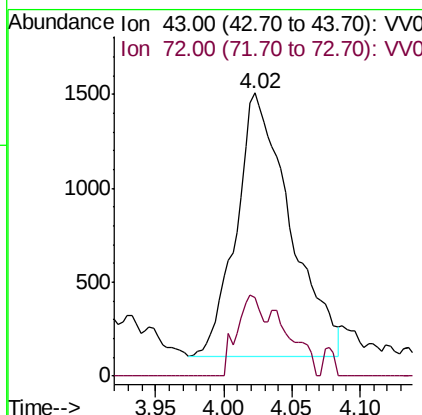
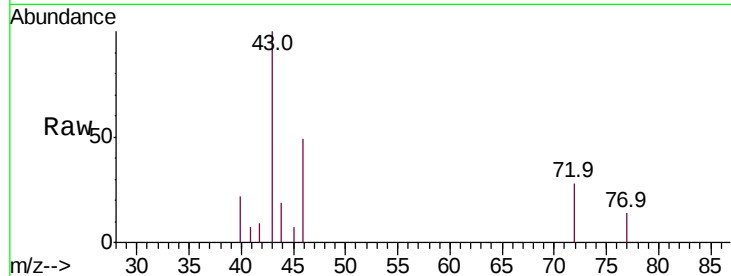
#22
2-Butanone
Concen: 4.083 ug/L
RT: 4.02 min Scan# 912
Delta R.T. 0.02 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion: 43 Resp: 3865
Ion Ratio Lower Upper
43 100
72 10.1 15.0 45.0#

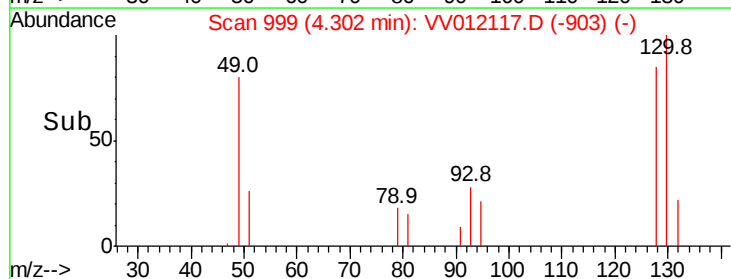
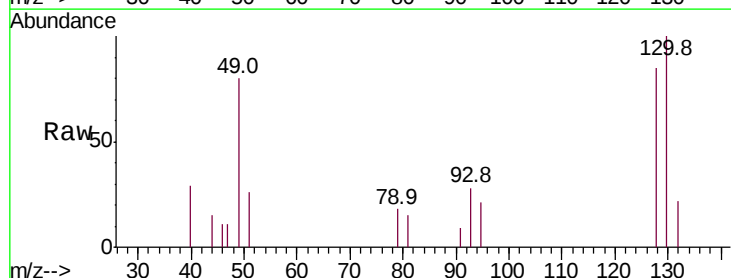
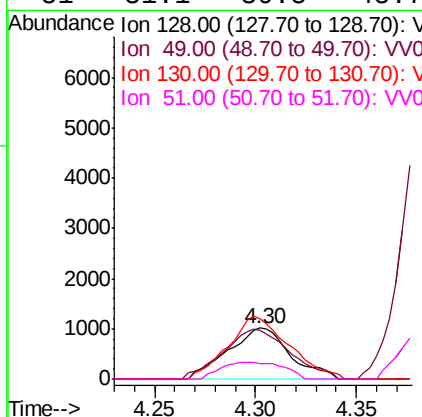
Manual Integrations
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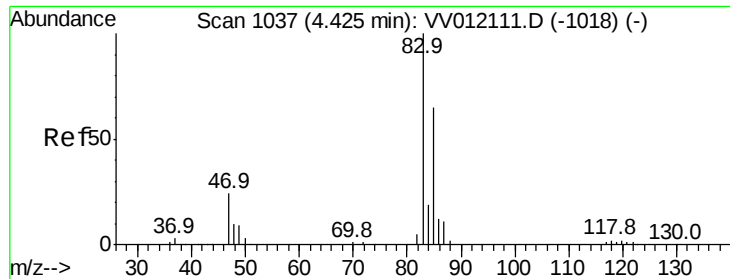
MMDadoda
8/7/2019 9:11:01 AM



#23
Bromochloromethane
Concen: 2.414 ug/L
RT: 4.30 min Scan# 999
Delta R.T. 0.01 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Tgt Ion: 128 Resp: 2169
Ion Ratio Lower Upper
128 100
49 94.0 84.6 157.2
130 118.3 89.9 167.0
51 31.1 30.5 45.7





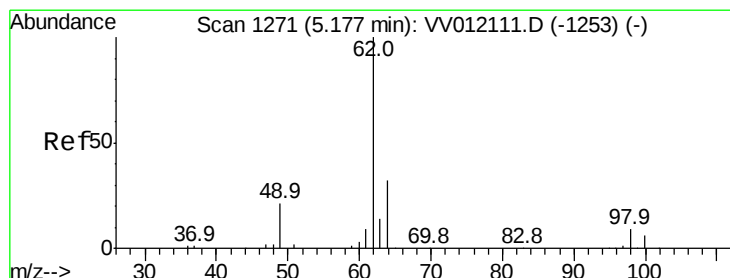
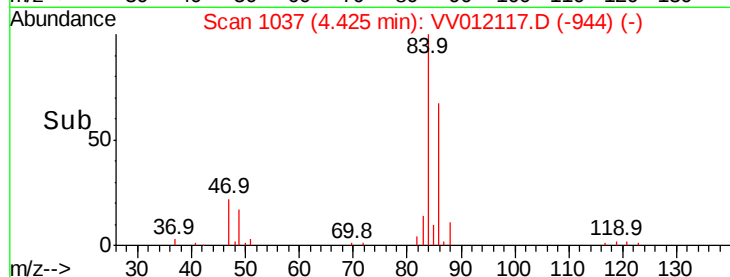
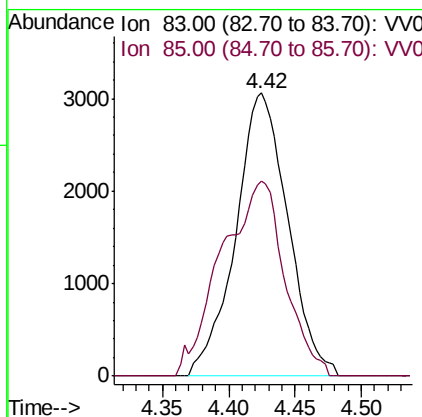
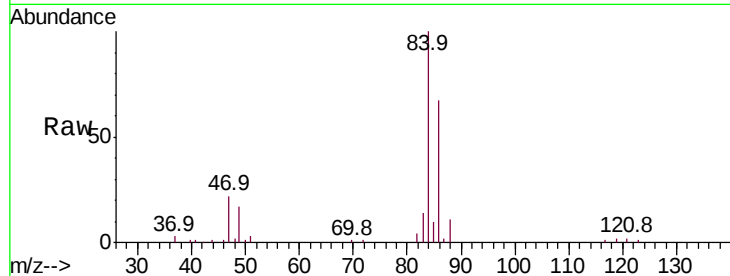
#25
Chloroform
Concen: 2.915 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion: 83 Resp: 8360
Ion Ratio Lower Upper
83 100
85 68.8 45.8 85.2

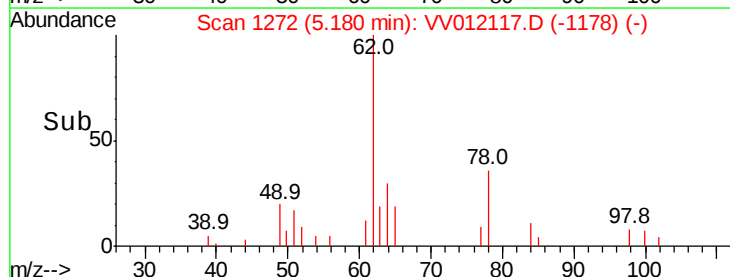
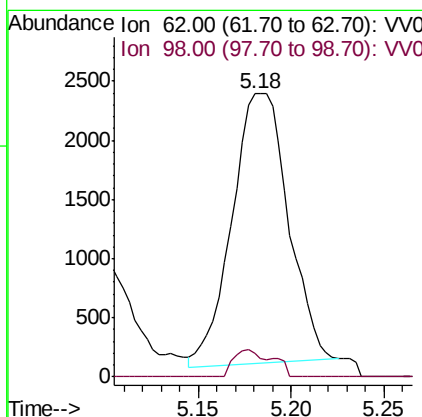
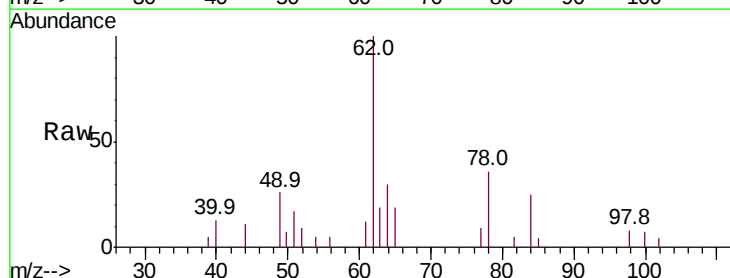
Manual Integrations
APPROVED

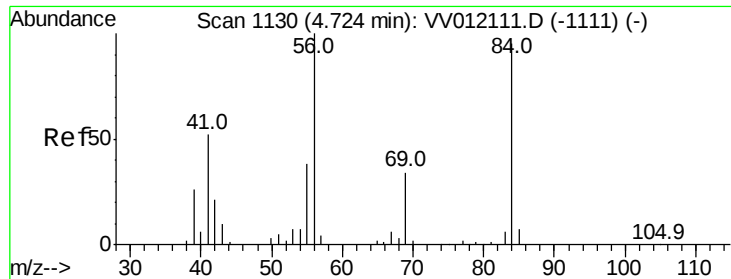
MMDadoda
8/7/2019 9:11:01 AM



#27
1,2-Dichloroethane
Concen: 2.177 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Tgt Ion: 62 Resp: 4853
Ion Ratio Lower Upper
62 100
98 8.1 7.5 11.3





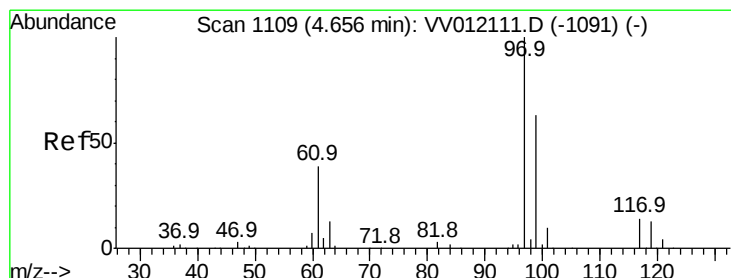
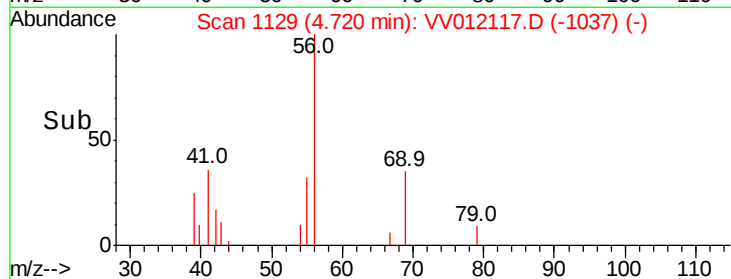
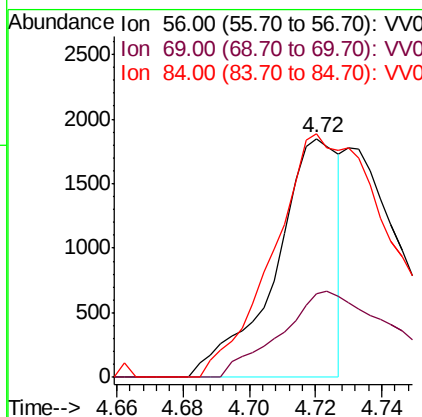
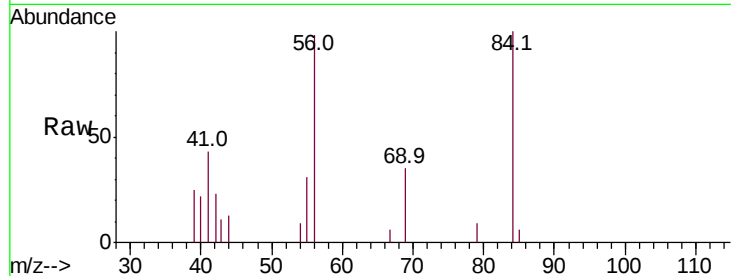
#29
Cyclohexane
Concen: 1.179 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
56	100		
69	60.8	25.8	38.8#
84	104.8	76.0	114.0

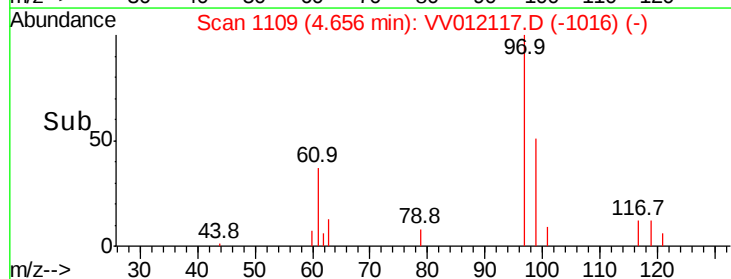
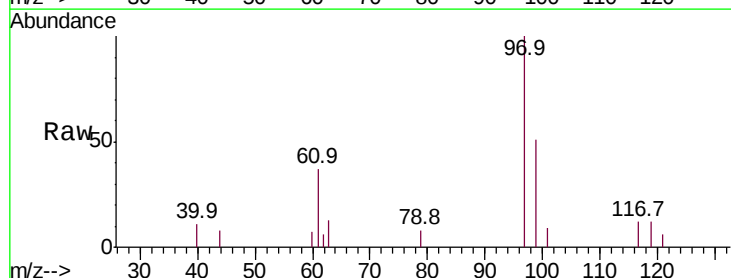
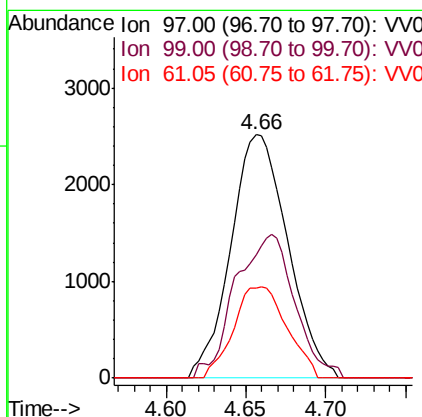
Manual Integrations
APPROVED

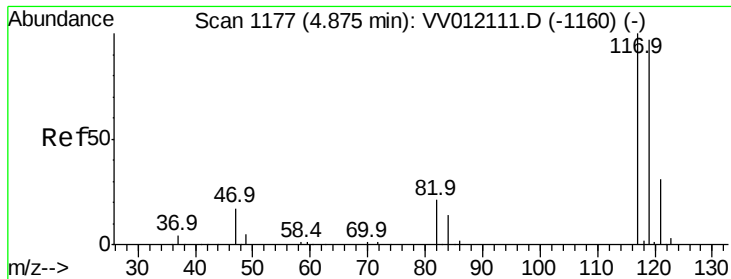
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 2.322 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.2	51.1	76.7
61	0.0	31.3	46.9#





#31

Carbon tetrachloride

Concen: 2.185 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion:117 Resp: 5365

Ion Ratio Lower Upper

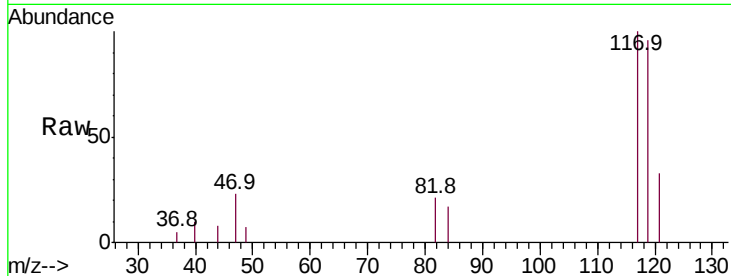
117 100

119 96.5 78.2 117.4

Manual Integrations
APPROVED

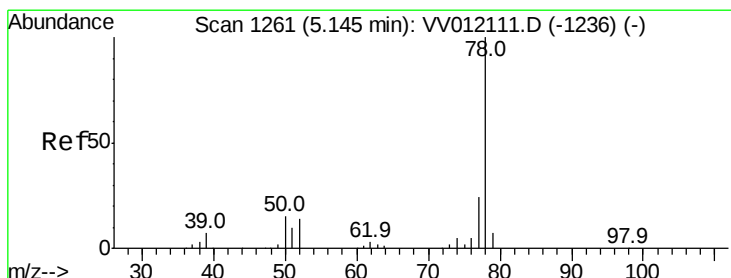
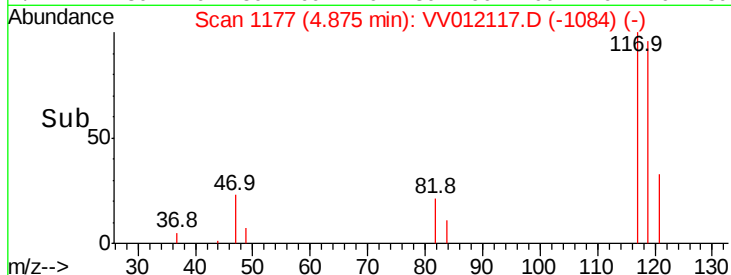
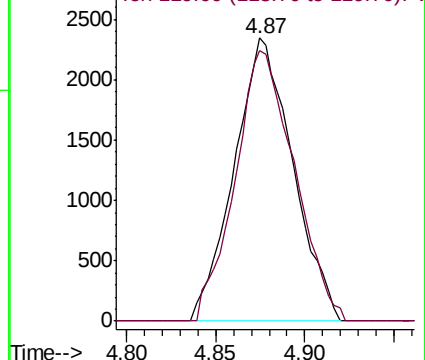
MMDadoda

8/7/2019 9:11:01 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.302 ug/L

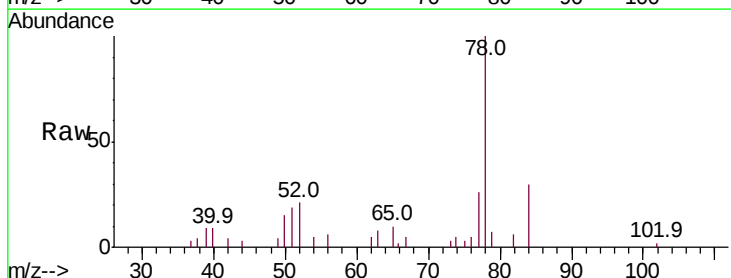
RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

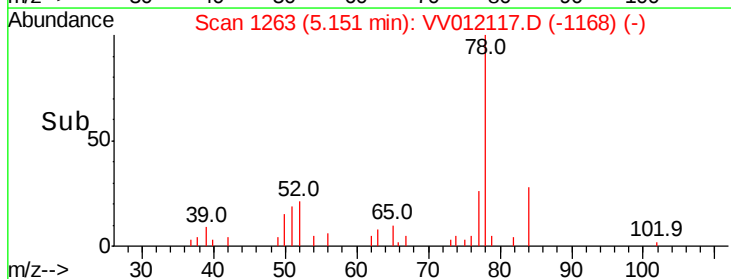
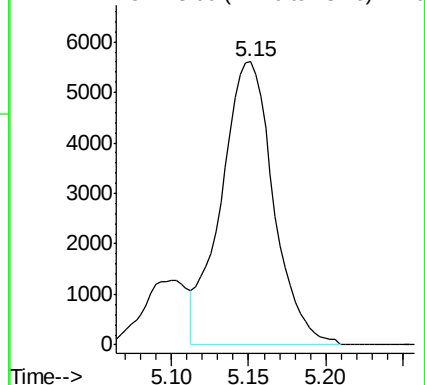
Lab File: VV012117.D

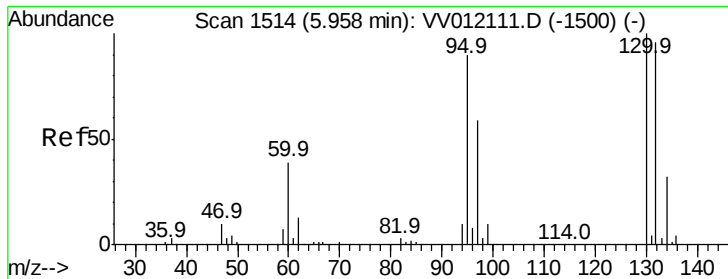
Acq: 06 Aug 2019 16:20

Tgt Ion: 78 Resp: 13202



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34
 Trichloroethene
 Concen: 2.177 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

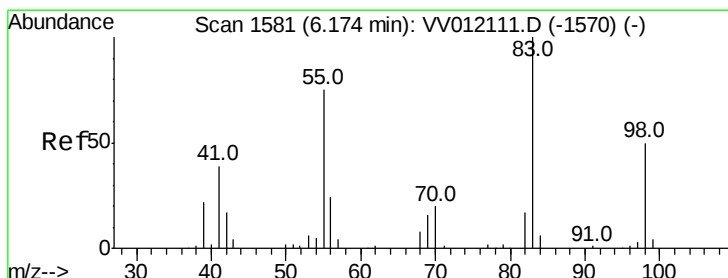
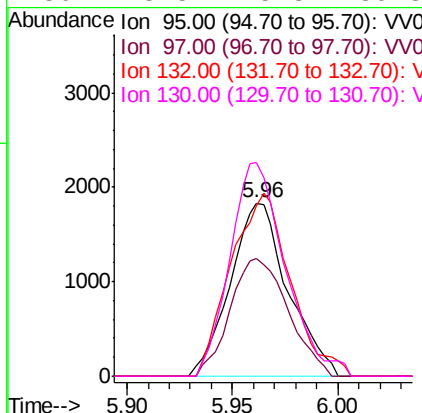
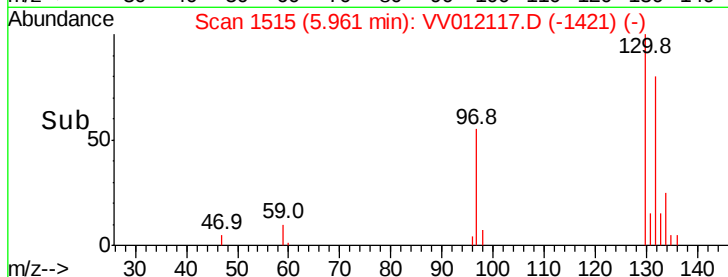
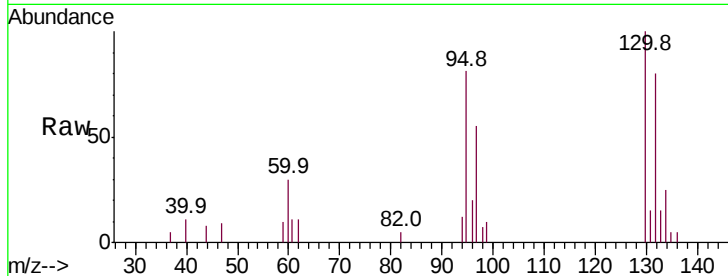
Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

Tot Ion: 95 Resp: 3471

Ion	Ratio	Lower	Upper
95	100		
97	67.8	43.4	80.6
132	117.0	73.1	135.8
130	123.5	75.3	139.8

Manual Integrations
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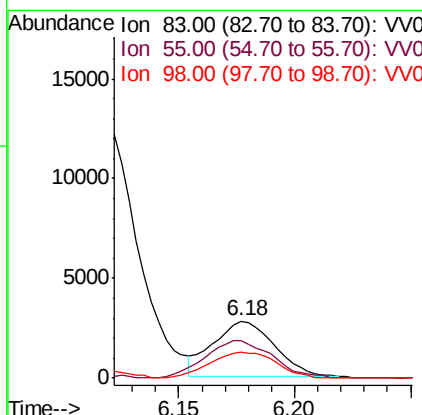
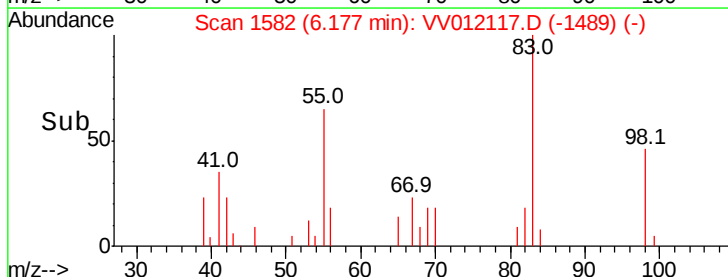
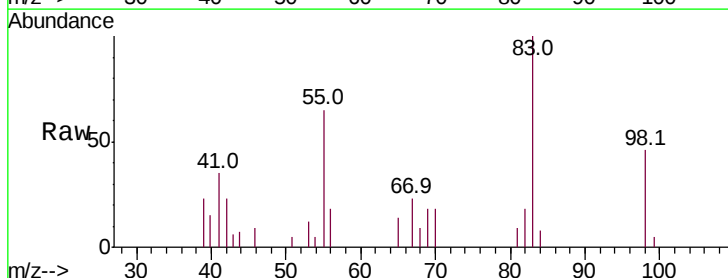
MMDadoda
 8/7/2019 9:11:01 AM

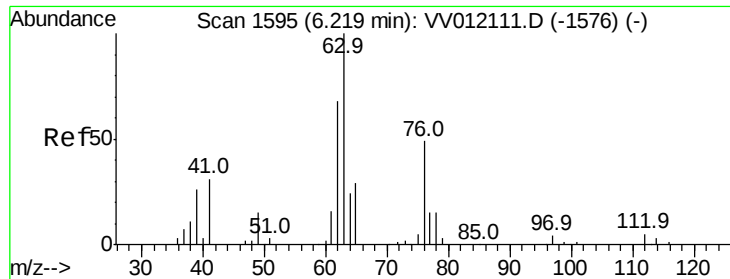


#35
 Methylcyclohexane
 Concen: 2.144 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Tgt Ion: 83 Resp: 5086

Ion	Ratio	Lower	Upper
83	100		
55	74.0	55.5	83.3
98	50.9	38.5	57.7





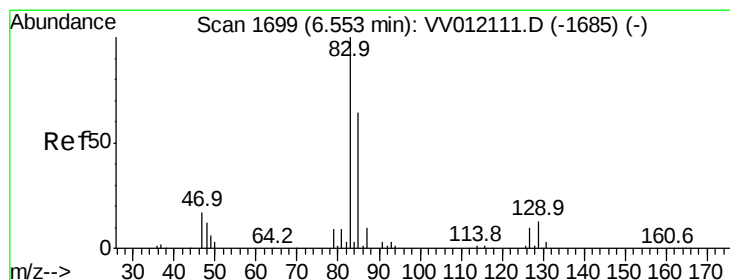
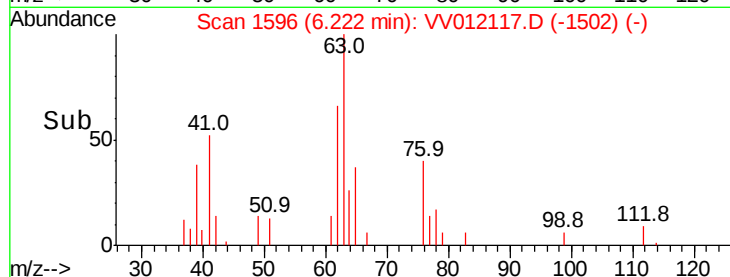
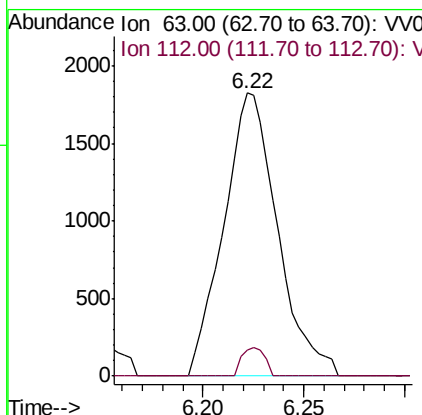
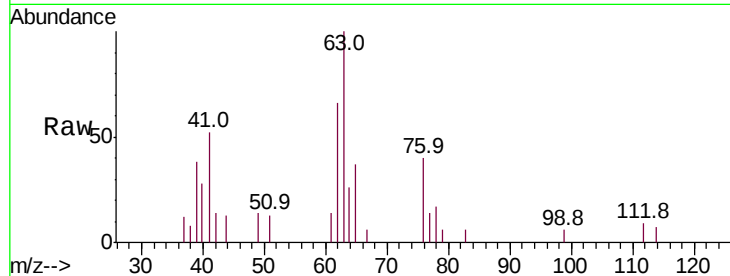
#37
 1,2-Dichloropropane
 Concen: 2.427 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion: 63 Resp: 3395
 Ion Ratio Lower Upper
 63 100
 112 4.3 4.2 6.2

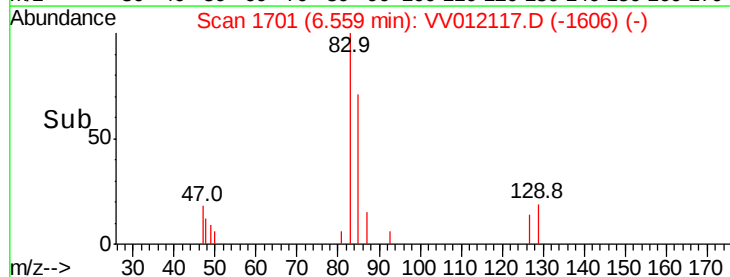
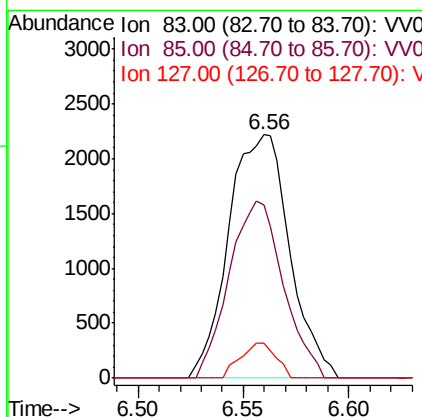
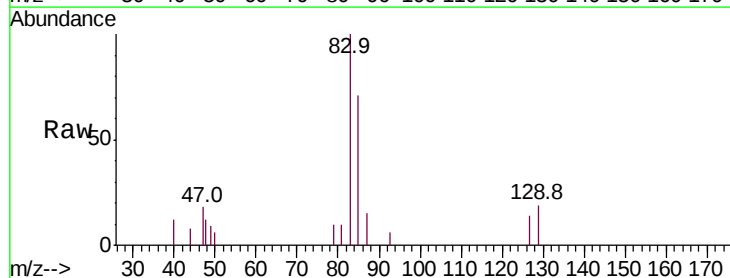
Manual Integrations
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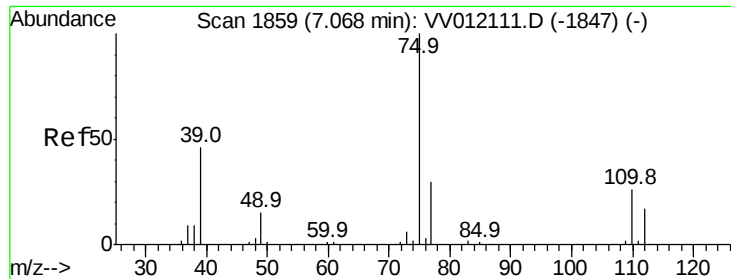
MMDadoda
 8/7/2019 9:11:01 AM



#38
 Bromodichloromethane
 Concen: 2.028 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. 0.01 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Tgt Ion: 83 Resp: 4464
 Ion Ratio Lower Upper
 83 100
 85 71.2 45.0 83.6
 127 14.5 7.9 11.9#





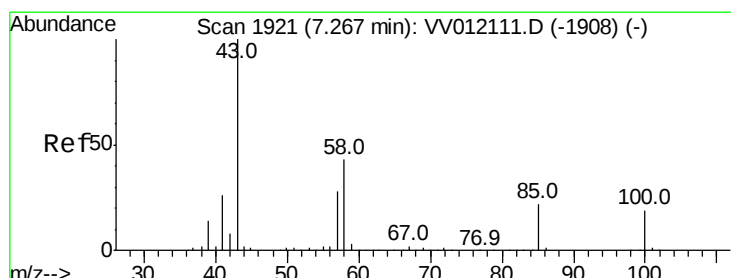
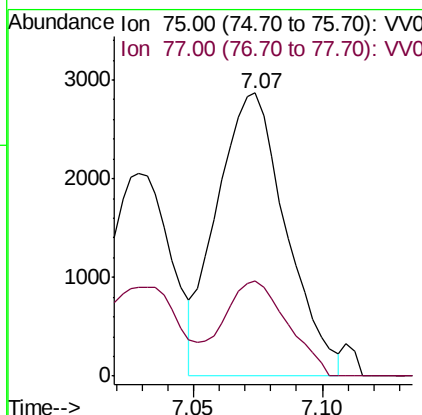
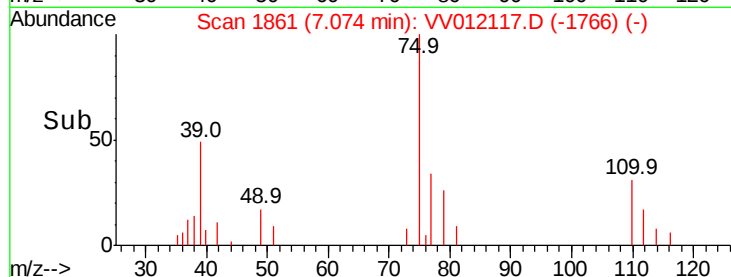
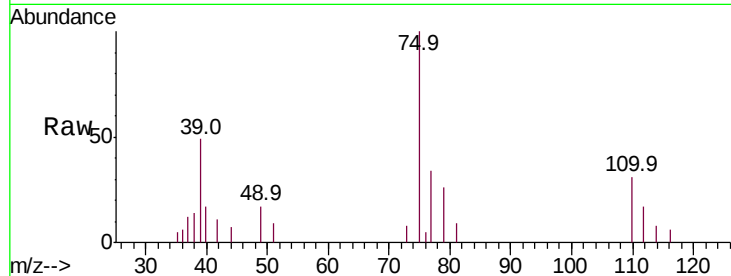
#39
 cis-1,3-Dichloropropene
 Concen: 2.173 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.01 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion: 75 Resp: 5359
 Ion Ratio Lower Upper
 75 100
 77 33.7 22.3 41.5

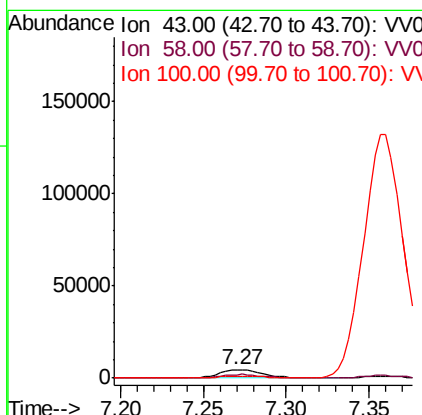
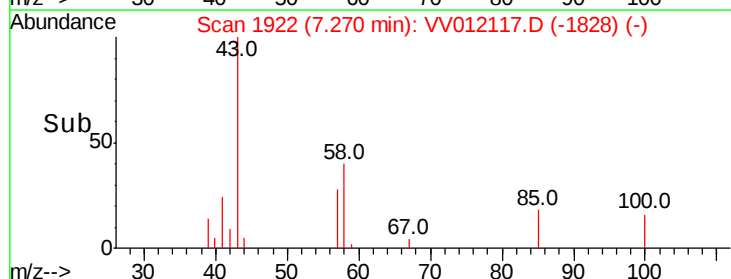
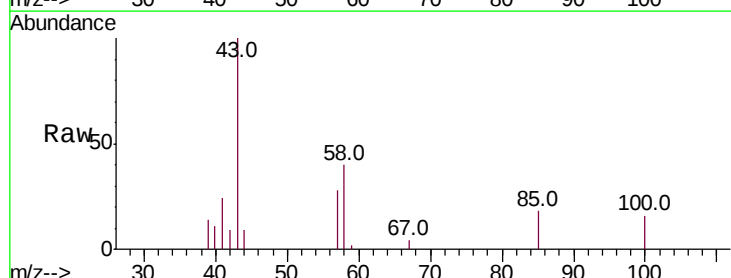
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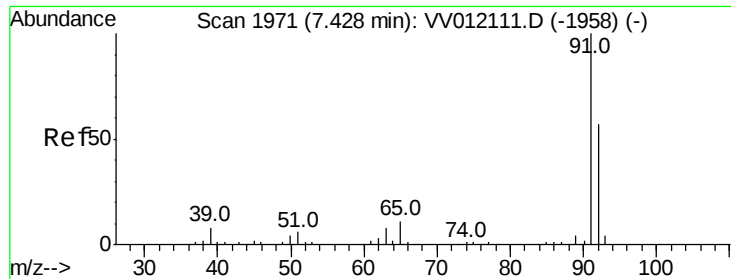
MMDadoda
 8/7/2019 9:11:01 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.782 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Tgt Ion: 43 Resp: 8609
 Ion Ratio Lower Upper
 43 100
 58 39.4 33.4 50.2
 100 8.0 15.0 22.4#





#42

Toluene

Concen: 2.428 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 91 Resp: 15475

Ion Ratio Lower Upper

91 100

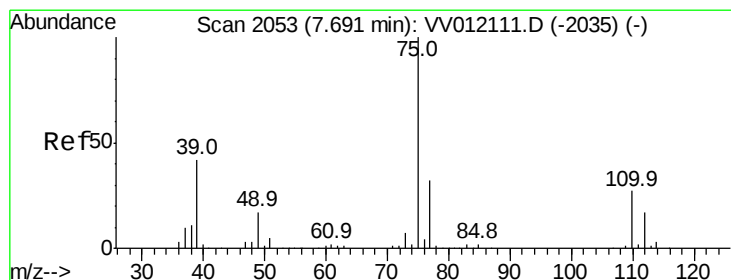
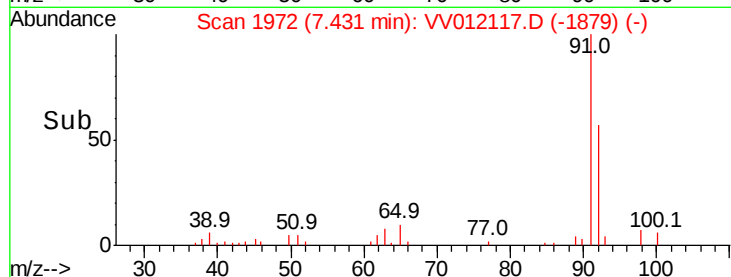
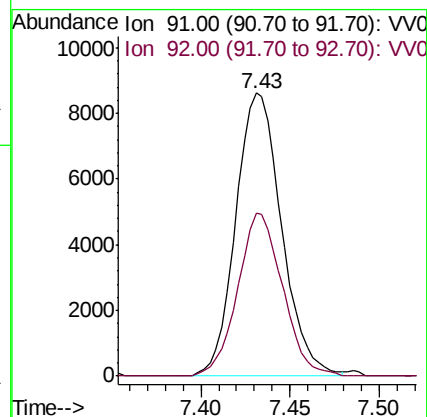
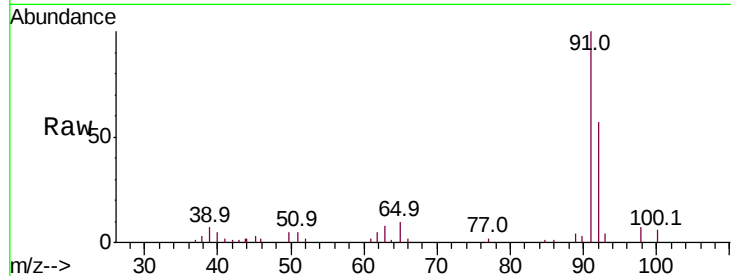
92 57.4 40.1 74.5

Manual Integrations

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#44

trans-1,3-Dichloropropene

Concen: 2.051 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012117.D

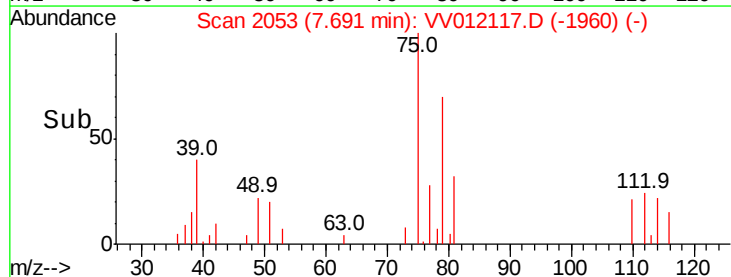
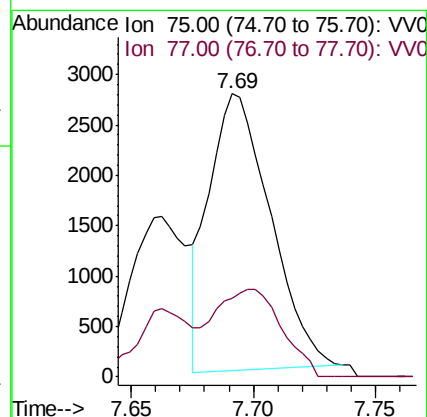
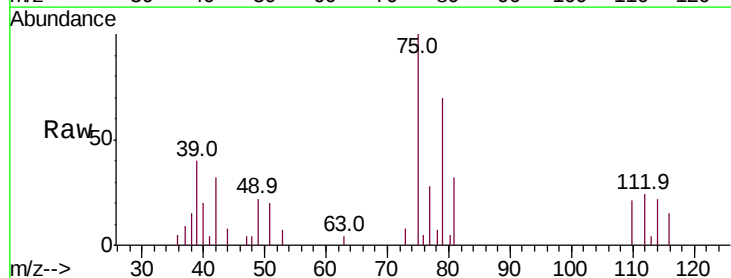
Acq: 06 Aug 2019 16:20

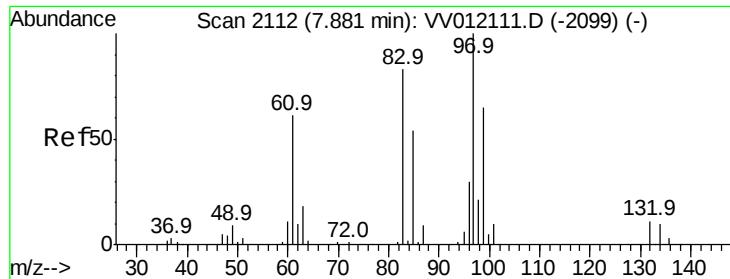
Tgt Ion: 75 Resp: 4776

Ion Ratio Lower Upper

75 100

77 27.9 21.8 40.4





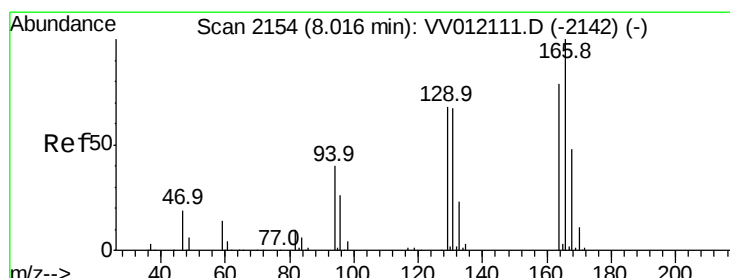
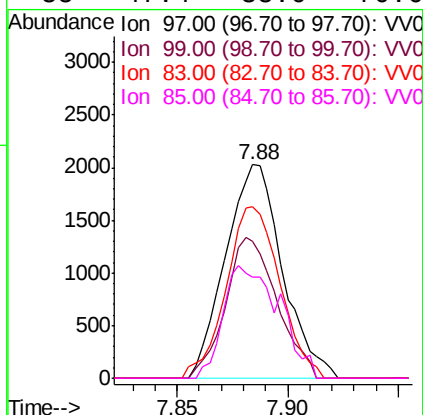
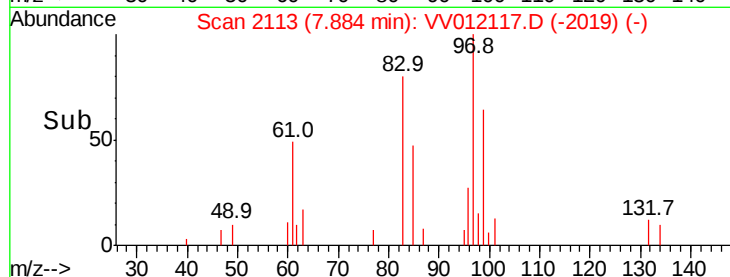
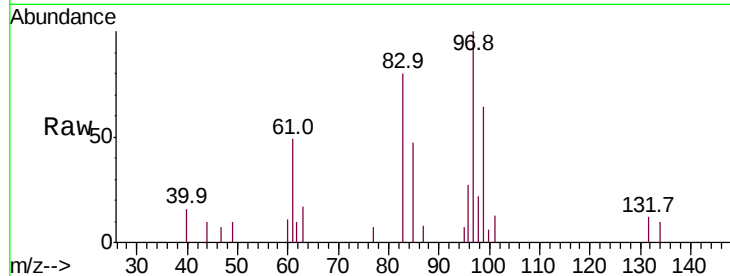
#45
1,1,2-Trichloroethane
Concen: 2.411 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	97	Resp	3635
Ion	Ratio	Lower	Upper
97	100		
99	64.2	47.2	87.6
83	80.2	58.0	107.6
85	47.4	38.0	70.6

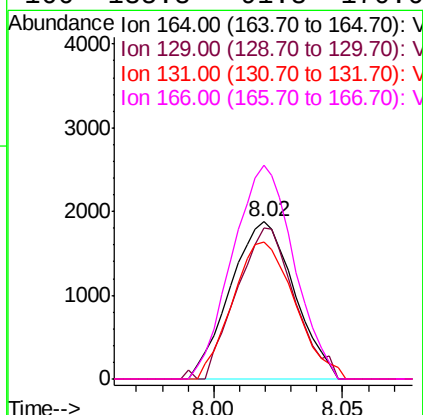
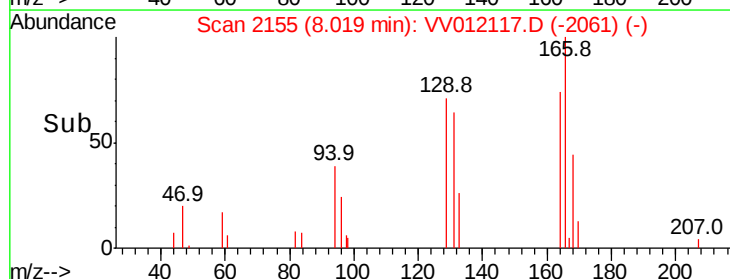
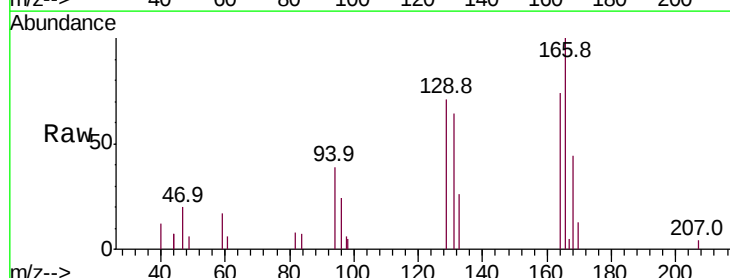
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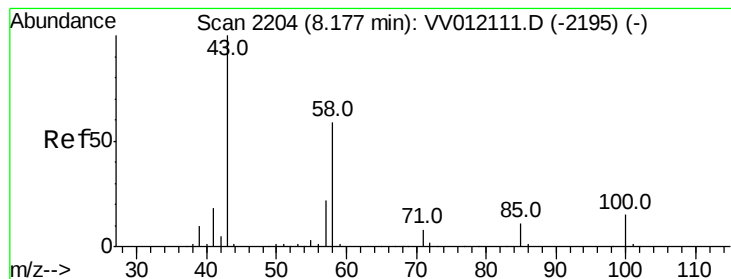
MMDadoda
8/7/2019 9:11:01 AM



#46
Tetrachloroethene
Concen: 2.196 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Tgt Ion	164	Resp	3261
Ion	Ratio	Lower	Upper
164	100		
129	96.2	64.3	119.5
131	87.1	60.1	111.7
166	135.8	91.8	170.6





#48

2-Hexanone

Concen: 5.551 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 43 Resp: 7535

Ion Ratio Lower Upper

43 100

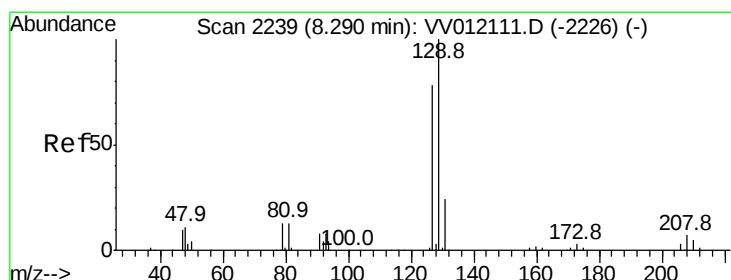
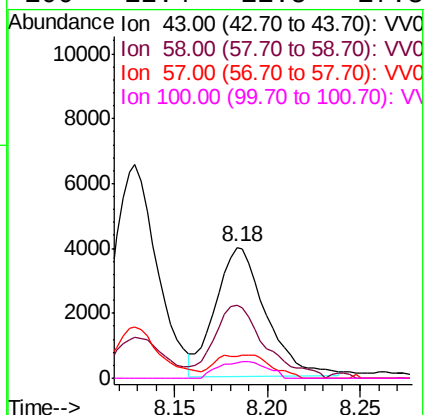
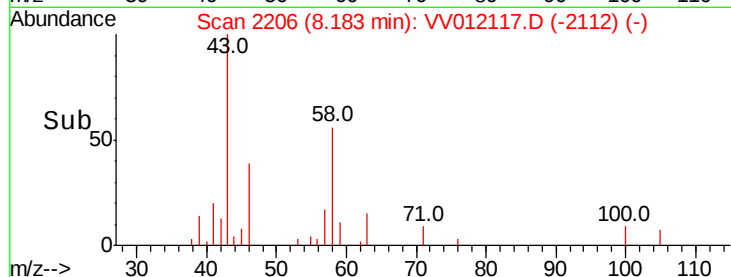
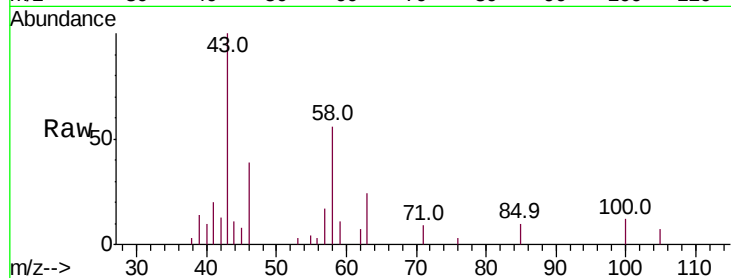
58 56.8 45.6 68.4

57 4.2 17.0 25.6#

100 12.4 11.5 17.3

Manual Integrations
APPROVED

MMDadoda
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#49

Dibromochloromethane

Concen: 2.289 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. -0.00 min

Lab File: VV012117.D

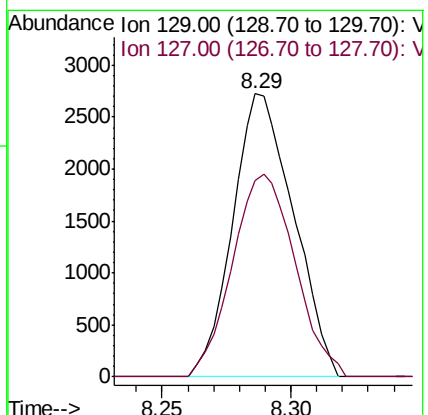
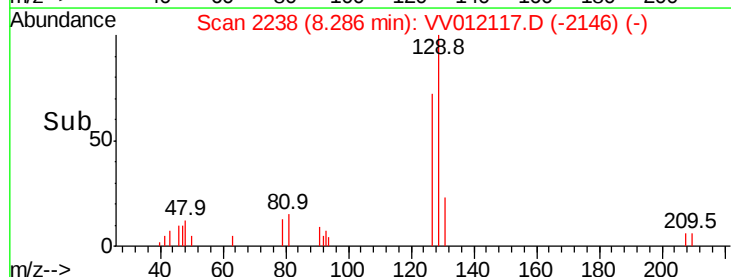
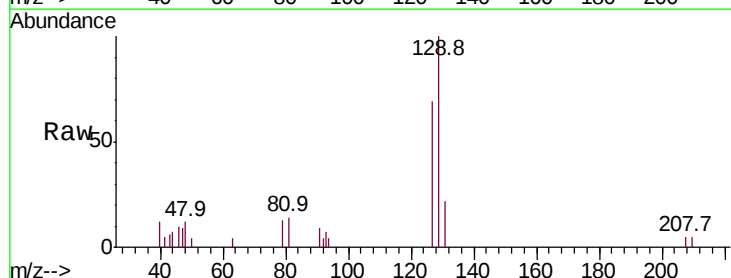
Acq: 06 Aug 2019 16:20

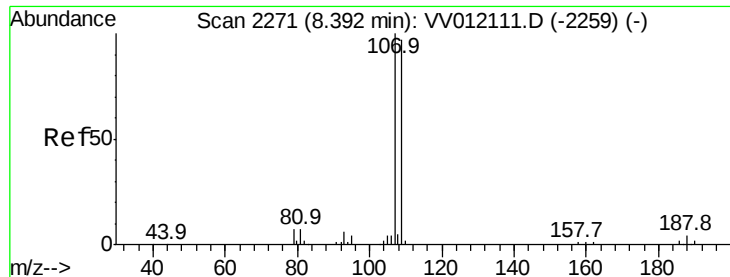
Tgt Ion: 129 Resp: 4480

Ion Ratio Lower Upper

129 100

127 69.4 53.8 100.0





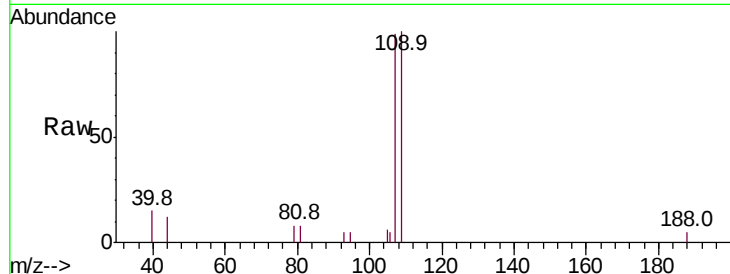
#50
1,2-Dibromoethane
Concen: 2.235 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
107	100		
109	101.4	67.0	124.4
188	5.4	3.9	5.9

Manual Integrations
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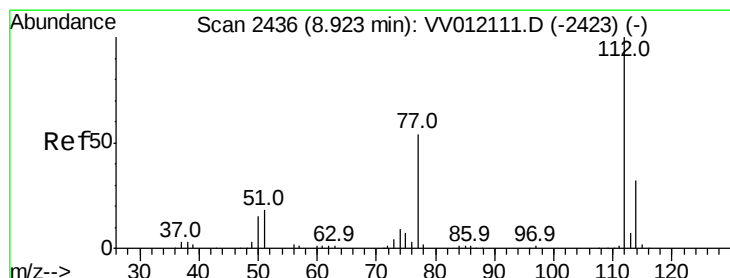
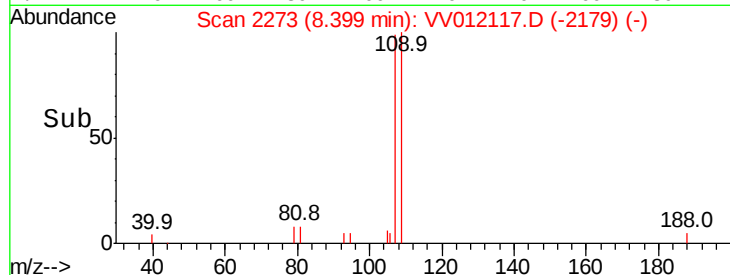
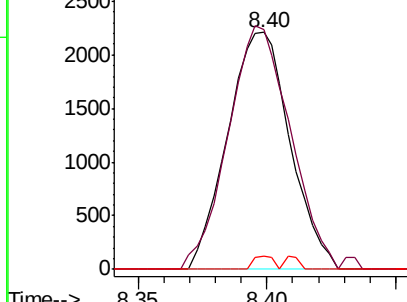


Abundance

Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
Chlorobenzene
Concen: 2.400 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

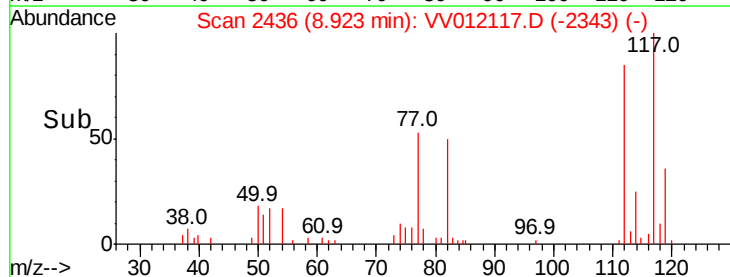
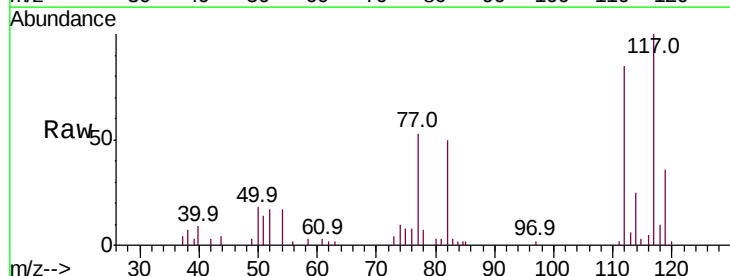
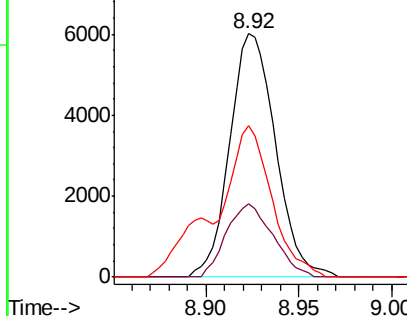
Tgt Ion	Ratio	Lower	Upper
112	100		
114	29.9	22.8	42.4
77	62.0	44.7	67.1

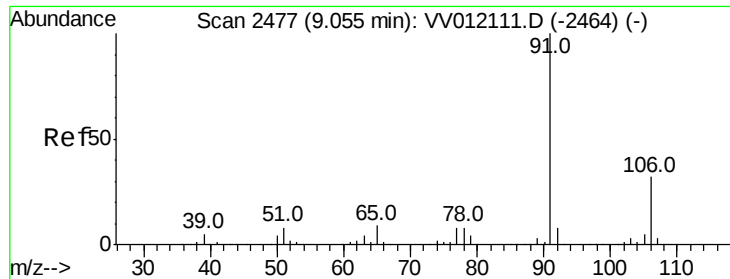
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 2.238 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 91 Resp: 16001

Ion Ratio Lower Upper

91 100

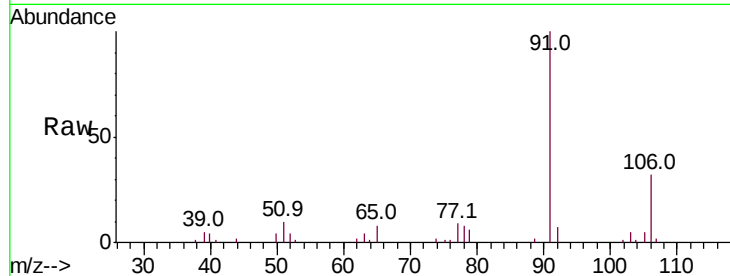
106 31.8 22.3 41.5

Manual Integrations

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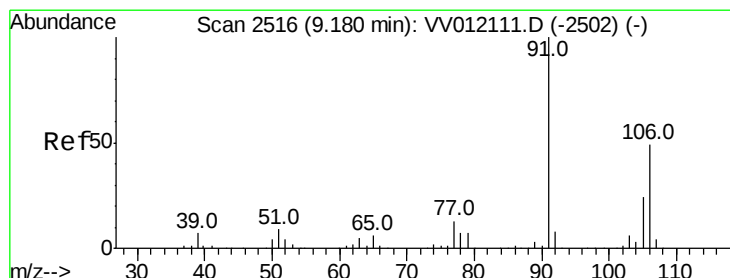
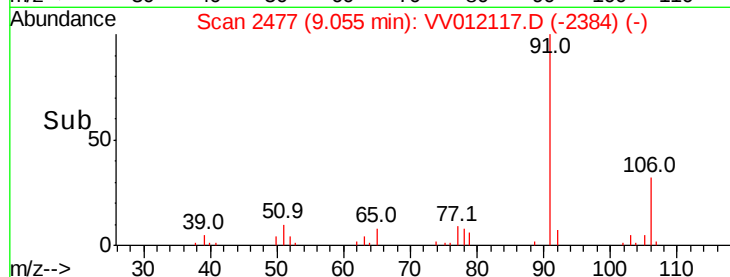
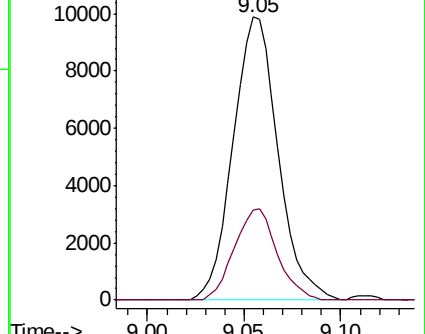
MMDadoda

8/7/2019 9:11:01 AM



Abundance Ion 91.00 (90.70 to 91.70): VV012111.D (-2464) (-)

Ion 106.00 (105.70 to 106.70): VV012111.D (-2464) (-)



#53

m,p-Xylene

Concen: 2.087 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012117.D

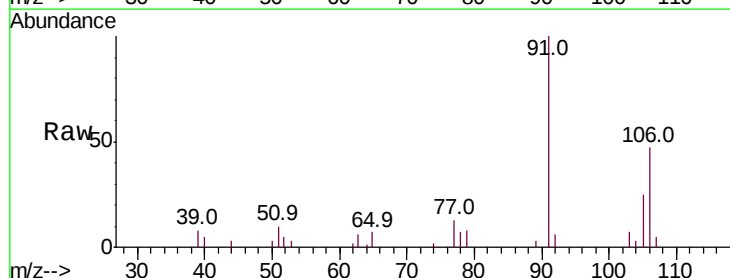
Acq: 06 Aug 2019 16:20

Tgt Ion: 106 Resp: 5758

Ion Ratio Lower Upper

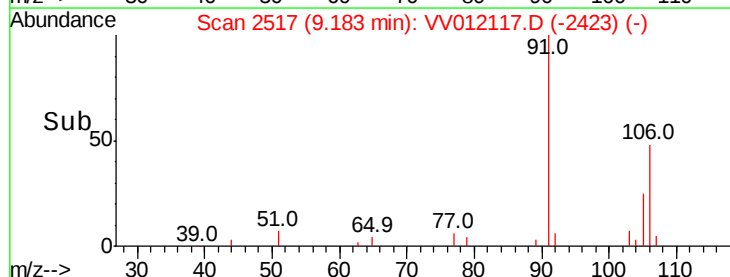
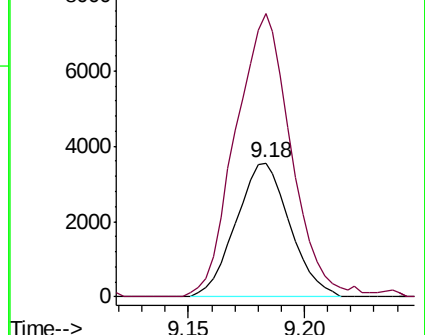
106 100

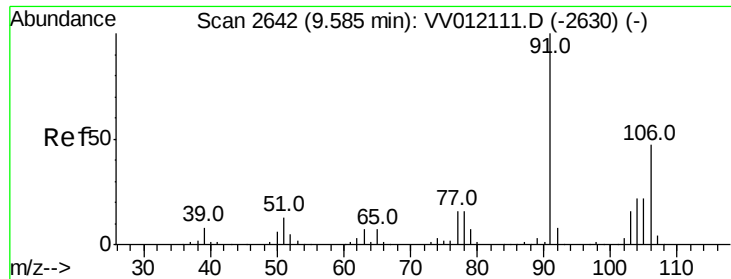
91 211.3 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): VV012111.D (-2502) (-)

Ion 91.00 (90.70 to 91.70): VV012111.D (-2502) (-)





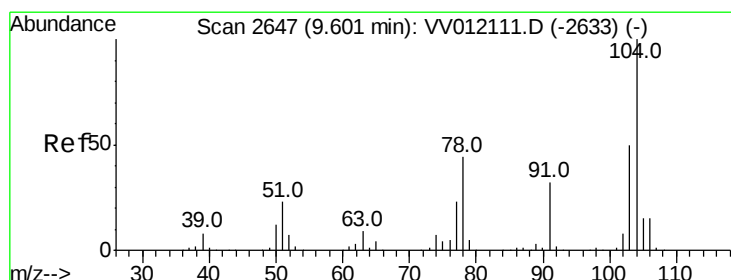
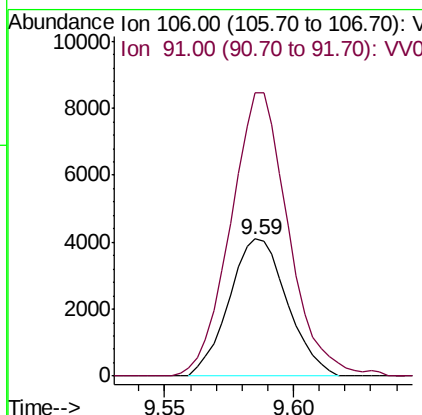
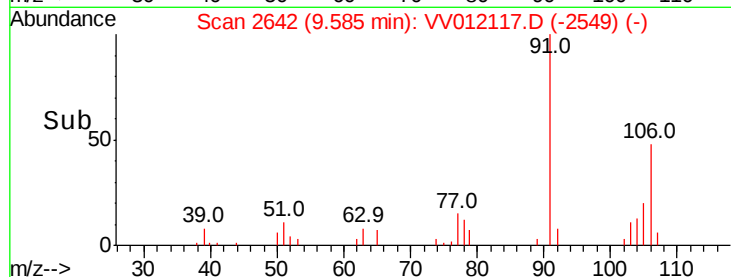
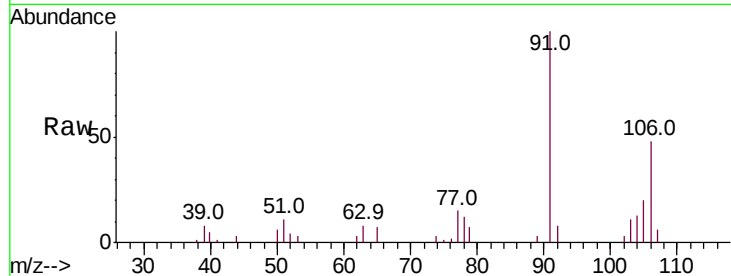
#54
o-Xylene
Concen: 2.356 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Instrument :
MSVOA_V
ClientSampled :
MDL02

Tot Ion:106 Resp: 6450
Ion Ratio Lower Upper
106 100
91 206.5 150.4 279.2

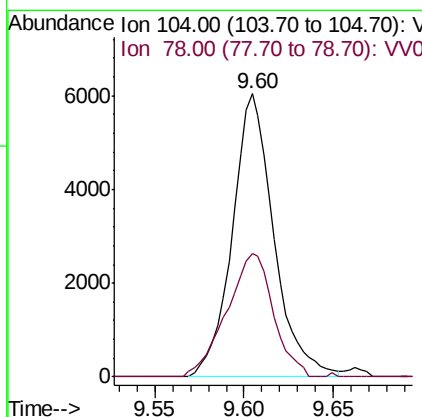
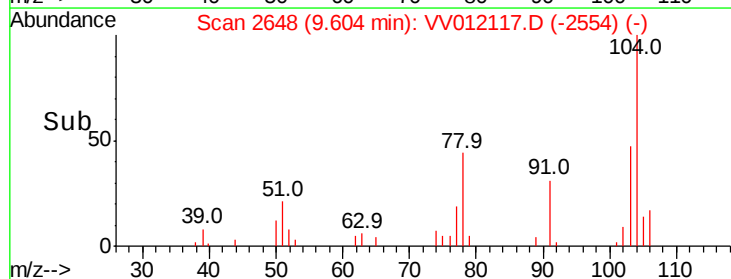
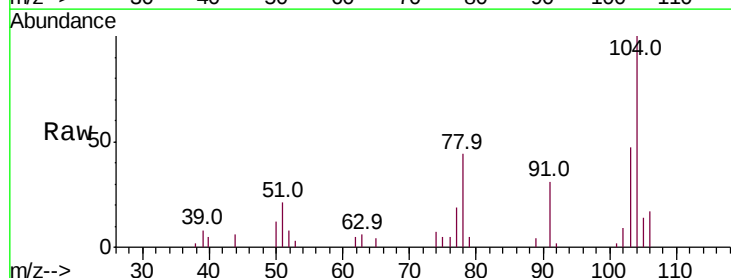
Manual Integrations
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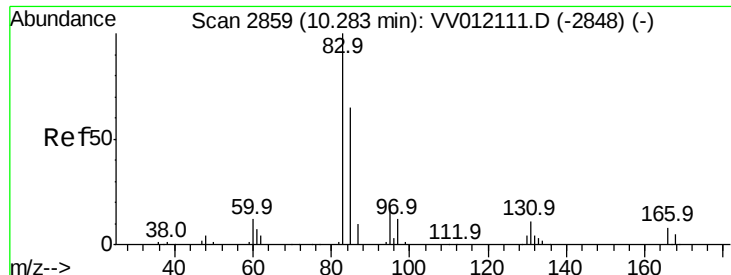
MMDadoda
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#55
Styrene
Concen: 2.133 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Tgt Ion:104 Resp: 9834
Ion Ratio Lower Upper
104 100
78 43.7 32.0 59.4





#57

1,1,2,2-Tetrachloroethane

Concen: 2.805 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

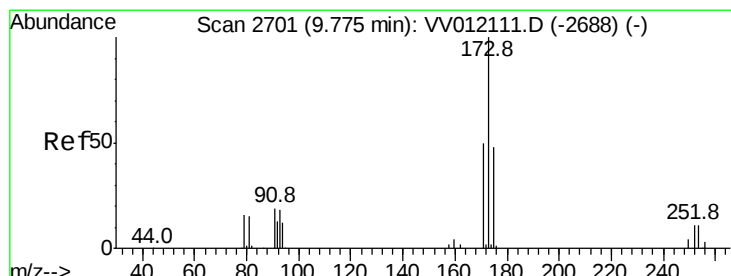
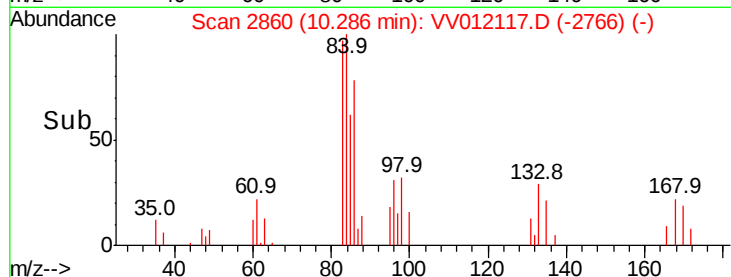
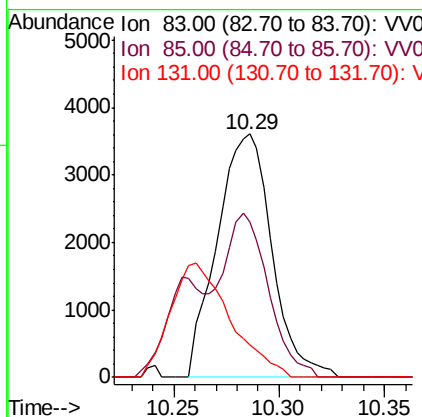
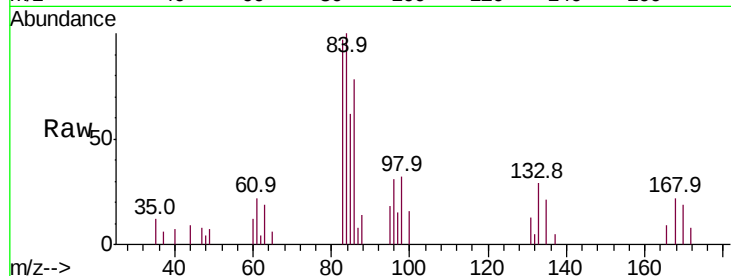
ClientSampleId :

MDL02

Tot Ion:	83	Resp:	6504
Ion	Ratio	Lower	Upper
83	100		
85	63.9	44.6	82.8
131	13.1	9.3	13.9

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#59

Bromoform

Concen: 2.275 ug/L

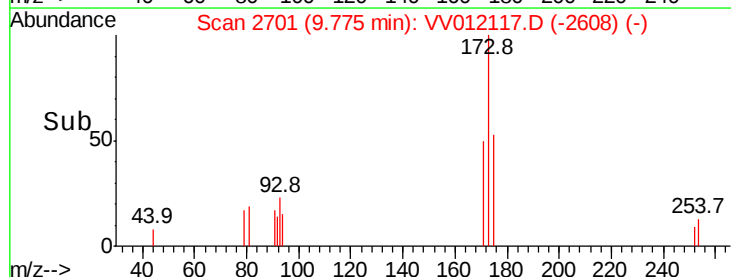
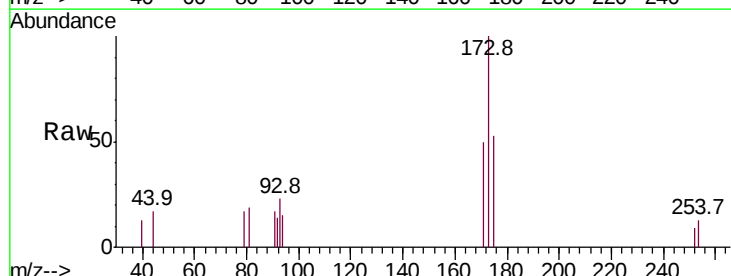
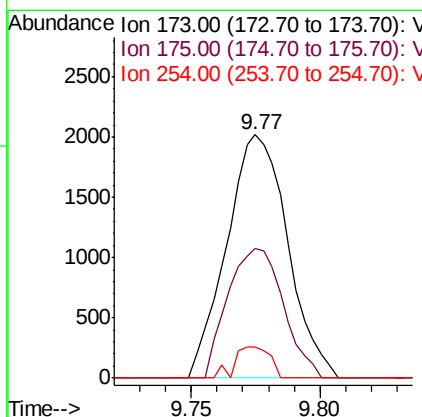
RT: 9.77 min Scan# 2701

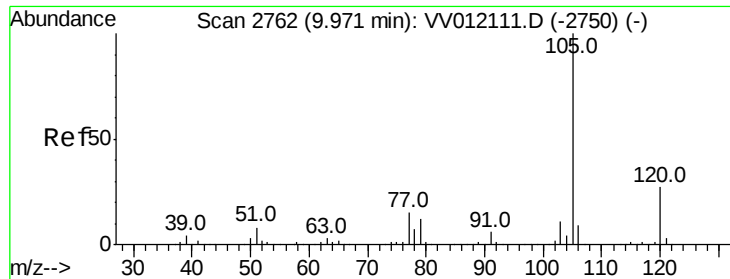
Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Tgt Ion:	173	Resp:	3322
Ion	Ratio	Lower	Upper
173	100		
175	48.5	38.3	57.5
254	6.7	8.9	13.3#





#60

Isopropylbenzene

Concen: 2.313 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

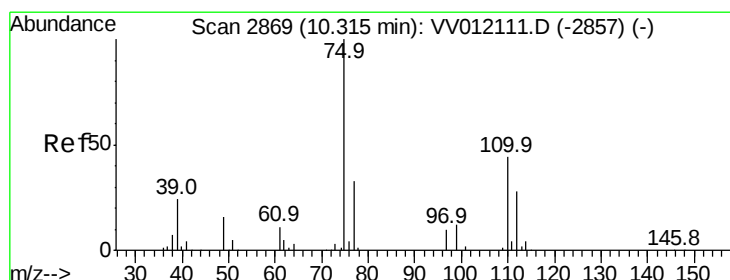
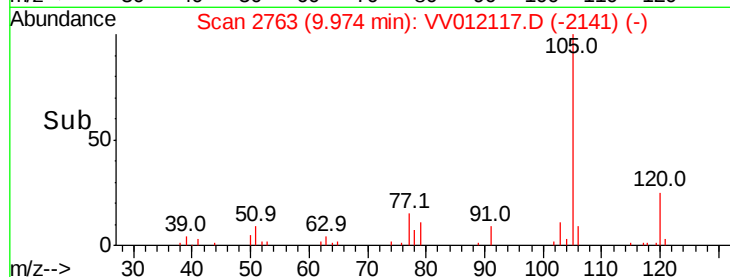
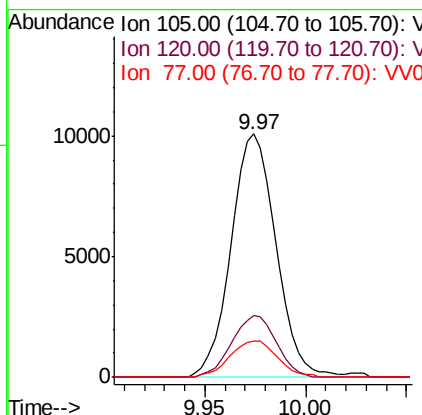
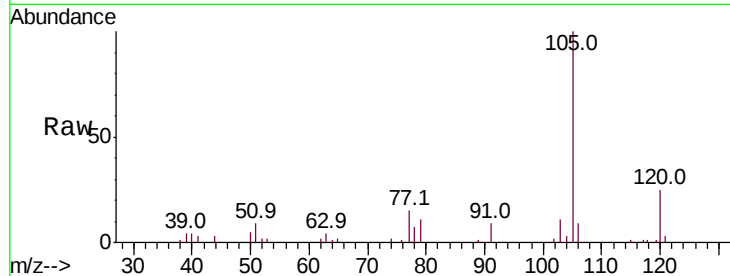
ClientSampled :

MDL02

Tot Ion:	105	Resp:	15759
Ion Ratio	Lower	Upper	
105	100		
120	25.0	21.4	32.0
77	15.9	11.6	17.4

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#61

1,2,3-Trichloropropane

Concen: 2.581 ug/L

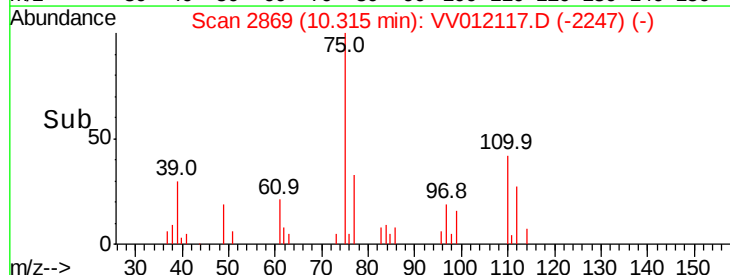
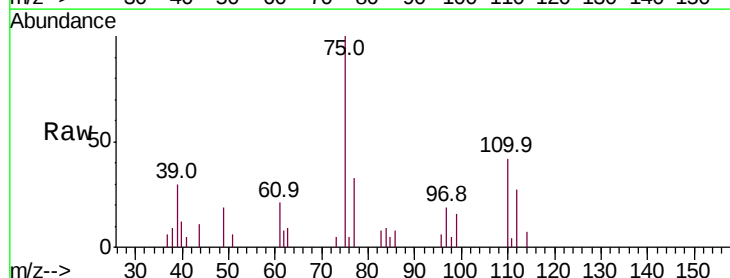
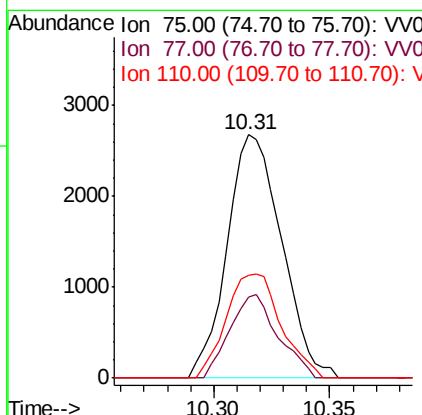
RT: 10.31 min Scan# 2869

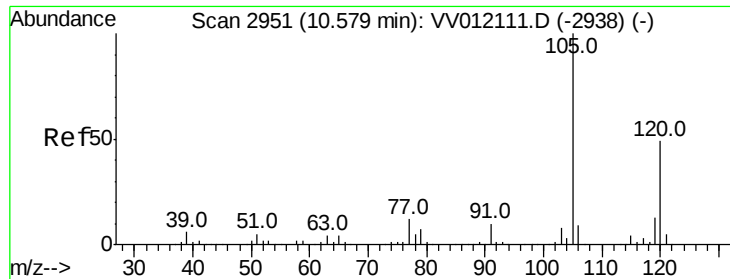
Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Tgt Ion:	75	Resp:	4362
Ion Ratio	Lower	Upper	
75	100		
77	30.2	25.7	38.5
110	43.1	34.2	51.4





#62

1,3,5-Trimethylbenzene

Concen: 2.185 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. -0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion:105 Resp: 12872

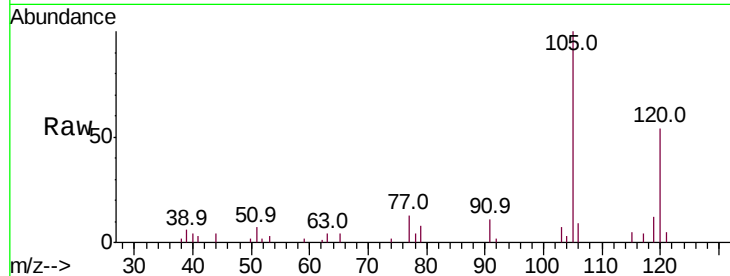
Ion Ratio Lower Upper

105 100

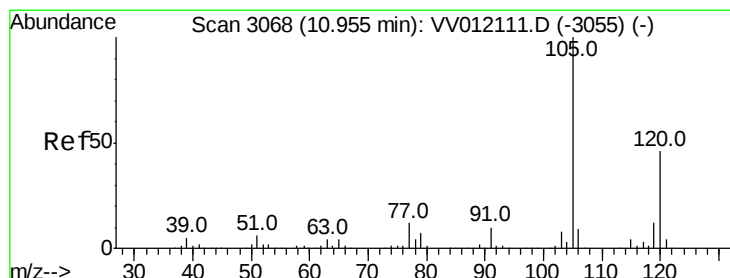
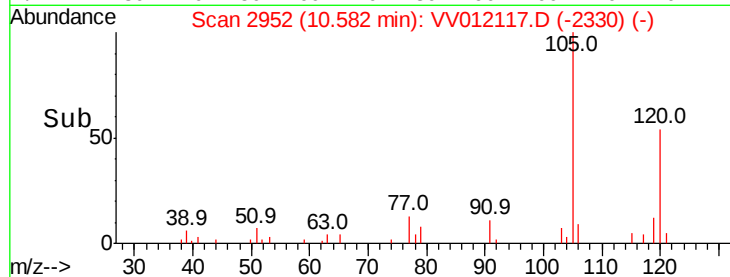
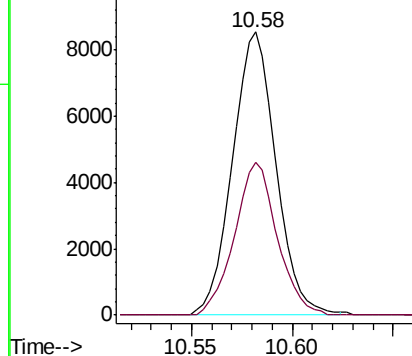
120 52.9 39.2 58.8

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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.138 ug/L

RT: 10.96 min Scan# 3069

Delta R.T. 0.00 min

Lab File: VV012117.D

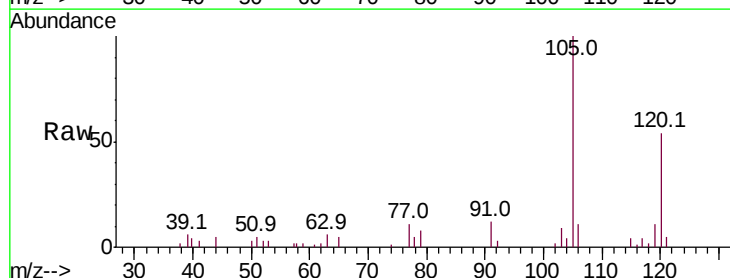
Acq: 06 Aug 2019 16:20

Tgt Ion:105 Resp: 12427

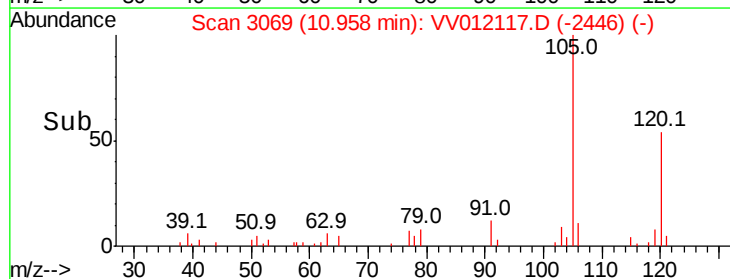
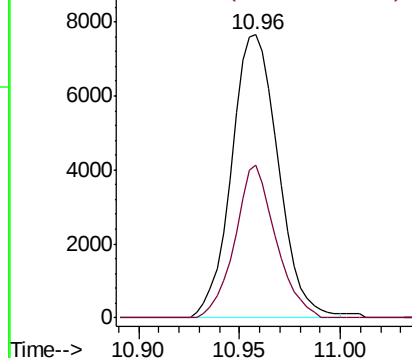
Ion Ratio Lower Upper

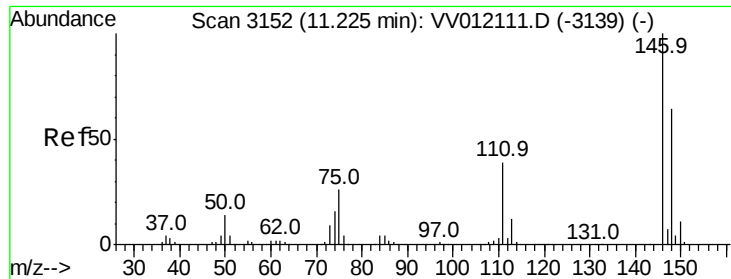
105 100

120 47.1 36.7 55.1



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 2.365 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Instrument :

MSVOA_V

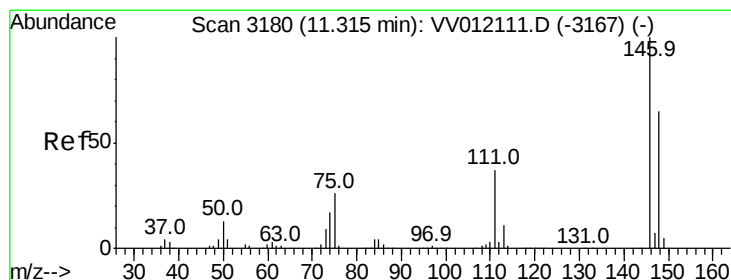
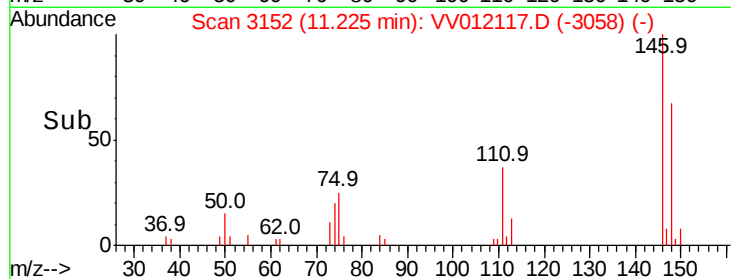
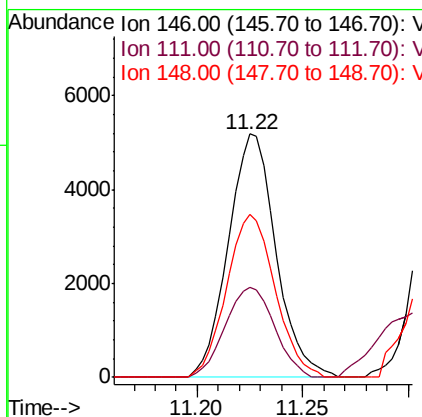
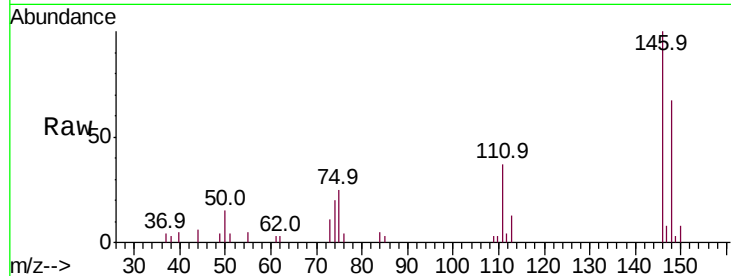
ClientSampleId :

MDL02

Tot Ion:	146	Resp:	8132
Ion Ratio	Lower	Upper	
146	100		
111	37.2	26.8	49.8
148	67.1	44.6	82.8

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#65

1,4-Dichlorobenzene

Concen: 2.533 ug/L

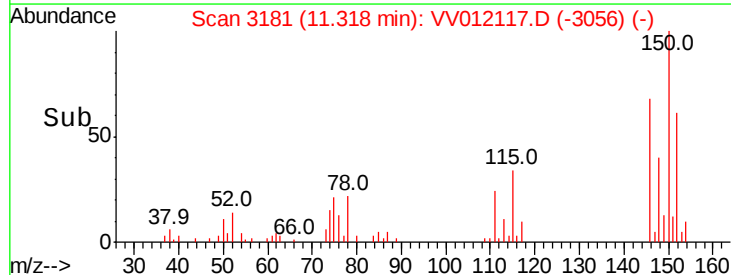
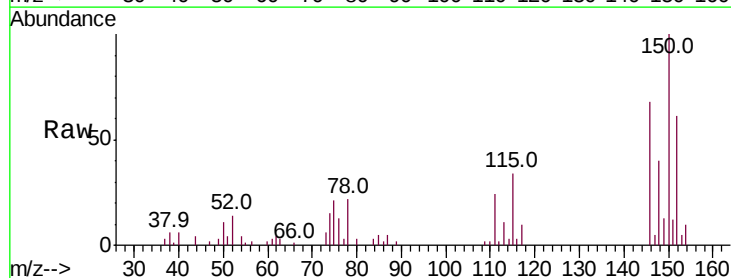
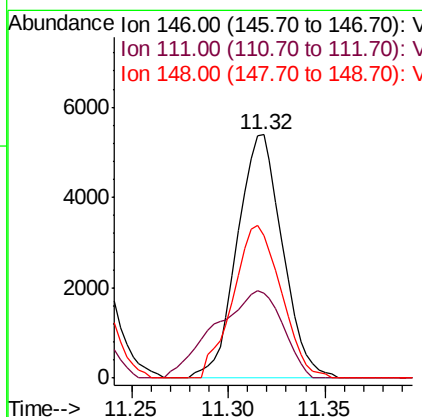
RT: 11.32 min Scan# 3181

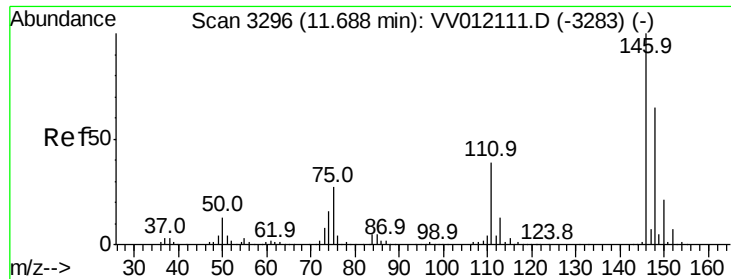
Delta R.T. 0.00 min

Lab File: VV012117.D

Acq: 06 Aug 2019 16:20

Tgt Ion:	146	Resp:	8803
Ion Ratio	Lower	Upper	
146	100		
111	34.9	25.8	47.8
148	58.7	45.2	84.0





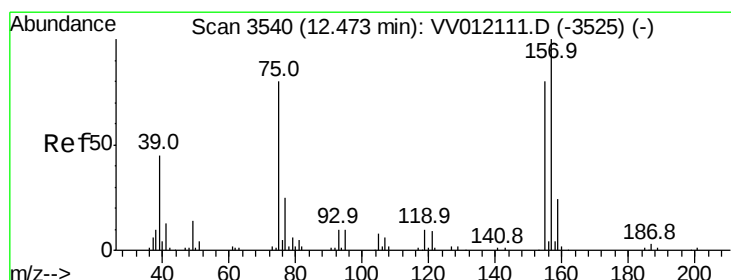
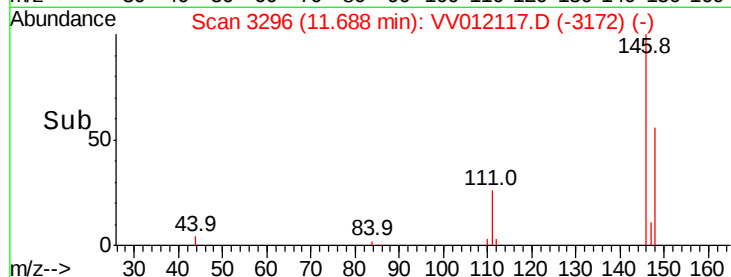
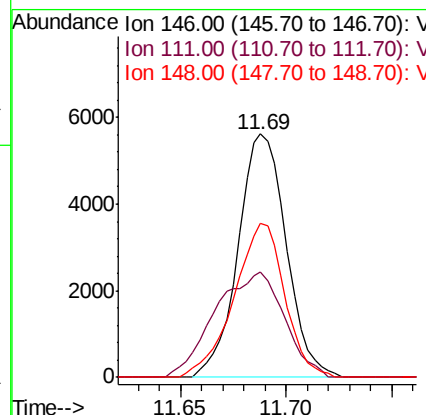
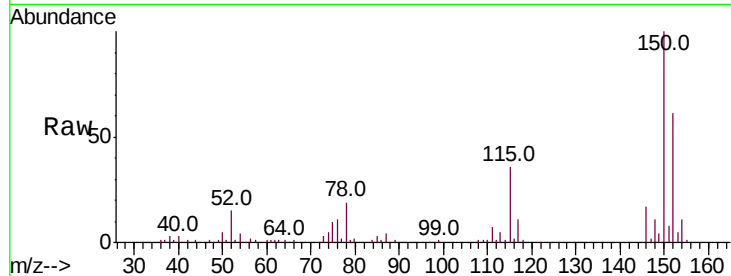
#67
 1,2-Dichlorobenzene
 Concen: 2.540 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	32.2	48.2
148	63.3	53.2	79.8

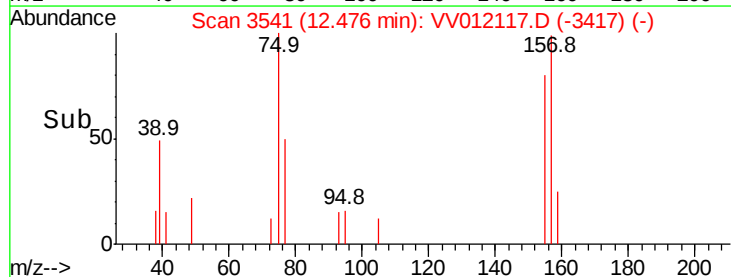
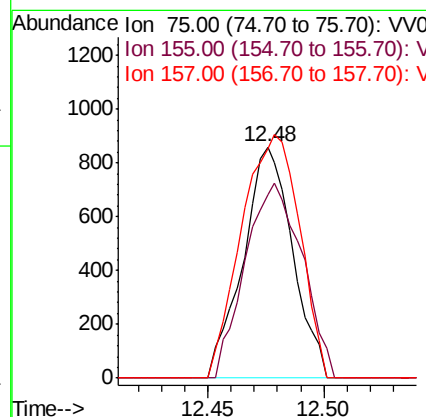
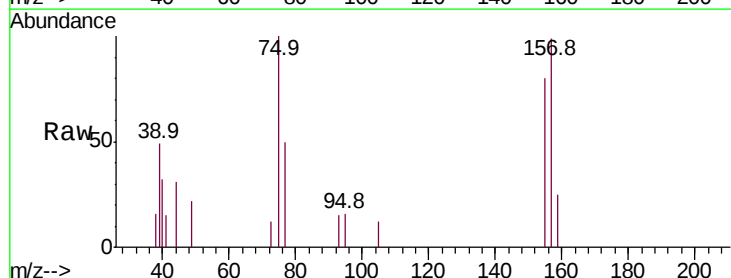
Manual Integrations
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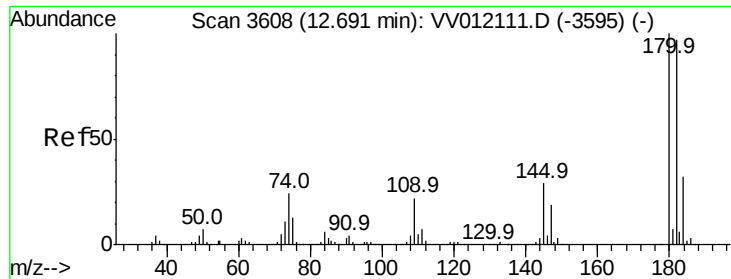
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.289 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.5	81.2	121.8#
157	99.1	102.3	153.5#





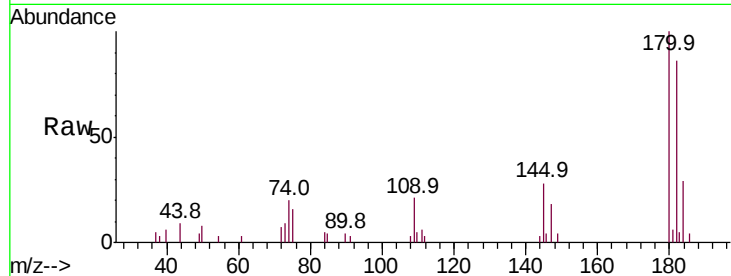
#69
 1,3,5-Trichlorobenzene
 Concen: 2.439 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.4	76.5	114.7
184	27.8	24.6	36.8
145	26.1	22.5	33.7

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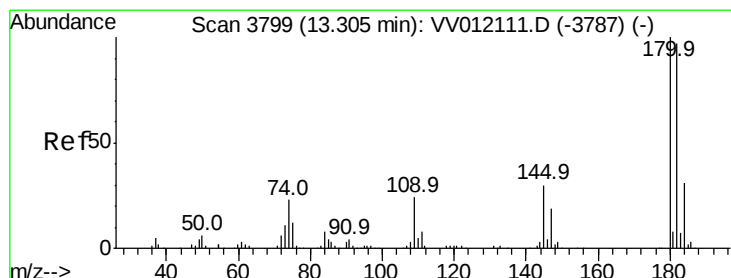
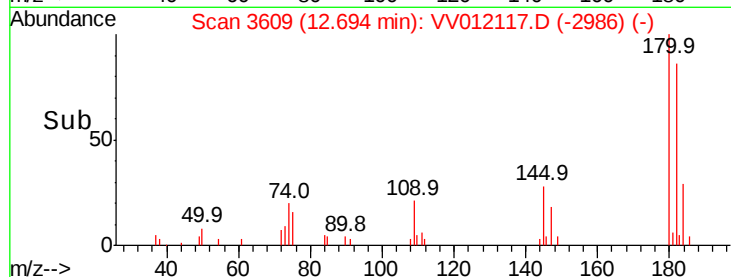
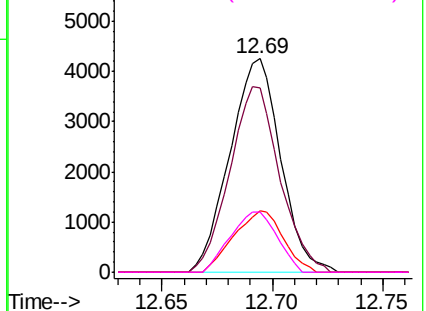
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

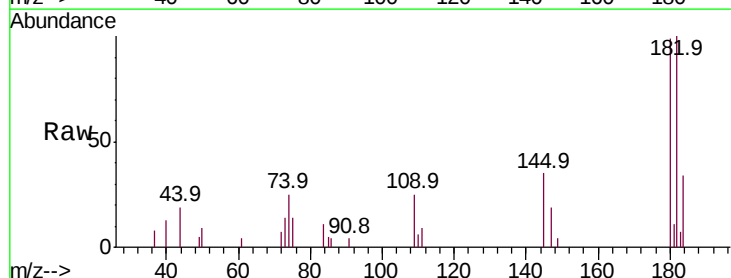
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 1.763 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012117.D
 Acq: 06 Aug 2019 16:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.7	76.5	114.7
145	0.0	23.3	34.9#

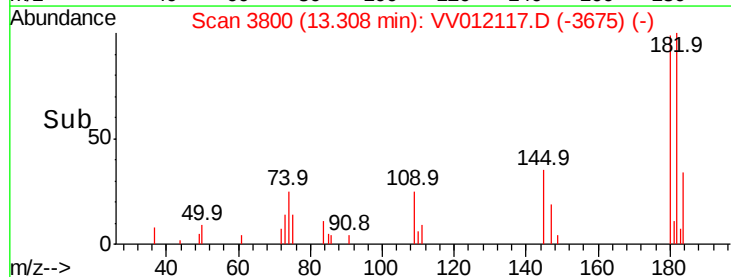
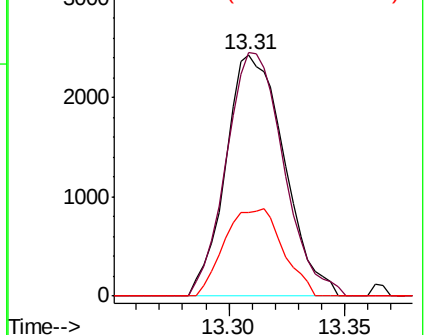


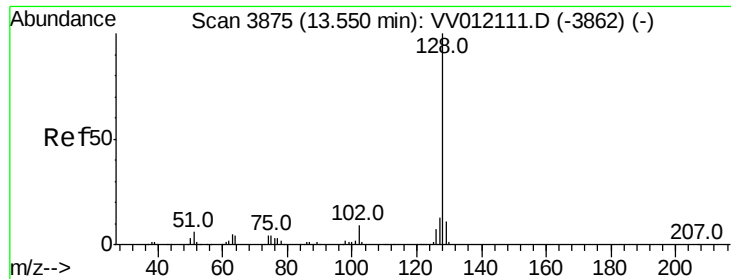
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





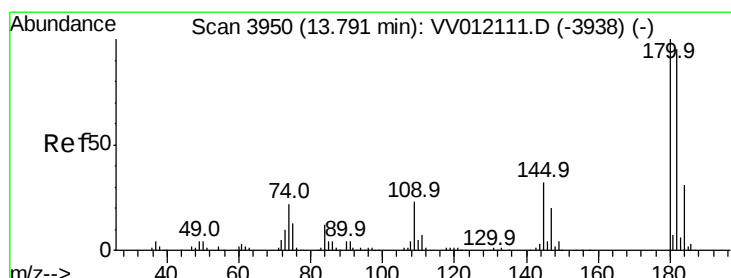
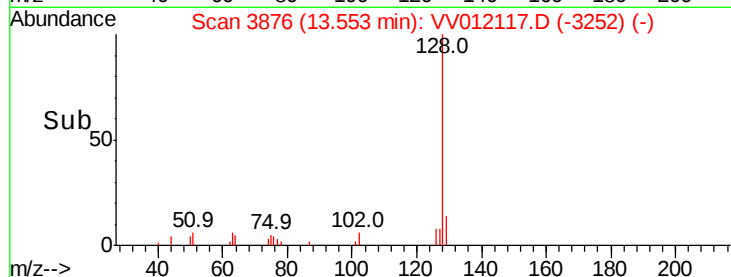
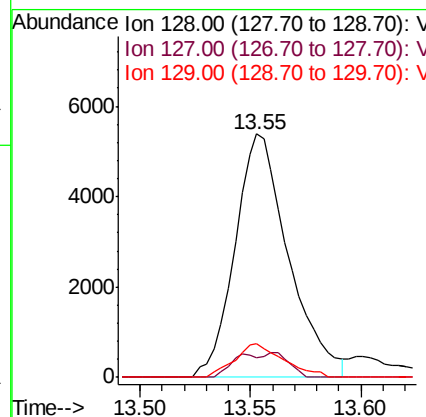
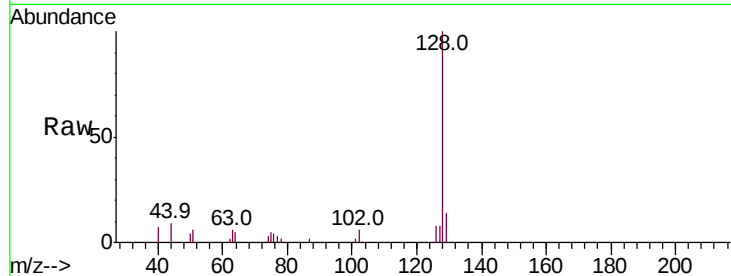
#71
Naphthalene
Concen: 1.483 ug/L
RT: 13.55 min Scan# 3876
Delta R.T. 0.01 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
128	100		
127	4.8	10.6	15.8#
129	12.6	8.6	12.8

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#72
1,2,3-Trichlorobenzene
Concen: 1.758 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV012117.D
Acq: 06 Aug 2019 16:20

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.2	115.8
145	33.9	24.6	36.8

