

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080619\
 Data File : VV012116.D
 Acq On : 06 Aug 2019 15:56
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.00µ/5.0mL/100µL/5mL/MSVOA_V/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 8/7/2019 9:10:56 AM

Quant Time: Aug 06 18:45:23 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	265491	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	245474	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	123674	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	66976	46.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.30%
7) Chloroethane-d5	1.58	69	46854	45.48	ug/L	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.96%
11) 1,1-Dichloroethene-d2	2.13	63	91044	36.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.38%
21) 2-Butanone-d5	3.92	46	120642	114.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	114.09%
24) Chloroform-d	4.40	84	176293	48.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.84%
26) 1,2-Dichloroethane-d4	5.08	65	119636	51.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.28%
32) Benzene-d6	5.10	84	352640	49.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.84%
36) 1,2-Dichloropropane-d6	6.12	67	102664	50.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.34%
41) Toluene-d8	7.36	98	336639	49.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.86%
43) trans-1,3-Dichloropropene-	7.66	79	58054	49.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.80%
47) 2-Hexanone-d5	8.13	63	92984	109.42	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.42%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	144604	50.14	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.28%
66) 1,2-Dichlorobenzene-d4	11.67	152	149842	51.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.04%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	4353	2.321 ug/L	96
3) Chloromethane	1.25	50	3519	2.643 ug/L	100
5) Vinyl chloride	1.32	62	2953	2.298 ug/L #	26
6) Bromomethane	1.53	94	1910	2.560 ug/L	83
8) Chloroethane	1.60	64	1489	2.212 ug/L	87
9) Trichlorofluoromethane	1.77	101	4756	2.276 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3059	2.986 ug/L #	78
12) 1,1-Dichloroethene	2.14	96	2691	2.790 ug/L #	1
13) Acetone	2.19	43	3552	4.927 ug/L	84
14) Carbon disulfide	2.32	76	7491	2.298 ug/L #	95
15) Methyl Acetate	2.46	43	2989	2.369 ug/L	96
16) Methylene chloride	2.54	84	3904	2.668 ug/L	85
17) trans-1,2-Dichloroethene	2.79	96	3032	2.226 ug/L	100
18) Methyl tert-butyl Ether	2.80	73	10565	2.257 ug/L	96
19) 1,1-Dichloroethane	3.23	63	5807	2.338 ug/L	94
20) cis-1,2-Dichloroethene	3.96	96	3905	2.434 ug/L	88
22) 2-Butanone	4.03	43	4730m	5.091 ug/L	

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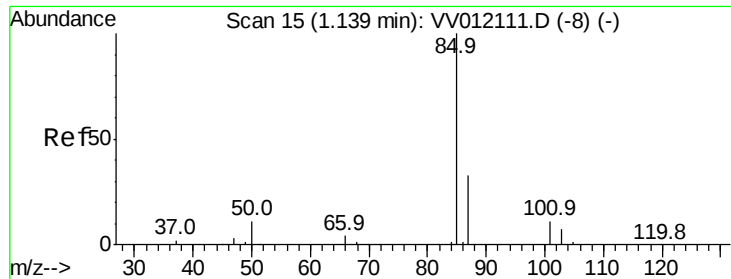
Manual Integrations
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 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	1913	2.169	ug/L	96
25) Chloroform	4.43	83	7461	2.650	ug/L	90
27) 1,2-Dichloroethane	5.18	62	5464	2.497	ug/L #	91
29) Cyclohexane	4.72	56	4802	2.339	ug/L	98
30) 1,1,1-Trichloroethane	4.66	97	6488	2.488	ug/L	94
31) Carbon tetrachloride	4.88	117	5595	2.313	ug/L	93
33) Benzene	5.15	78	13856	2.452	ug/L	100
34) Trichloroethene	5.96	95	3681	2.344	ug/L	91
35) Methylcyclohexane	6.18	83	5013	2.144	ug/L	89
37) 1,2-Dichloropropane	6.22	63	3589	2.604	ug/L #	84
38) Bromodichloromethane	6.56	83	4675	2.156	ug/L #	94
39) cis-1,3-Dichloropropene	7.07	75	5845	2.405	ug/L	92
40) 4-Methyl-2-pentanone	7.27	43	8220	4.634	ug/L	99
42) Toluene	7.43	91	15969	2.543	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	5022	2.189	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	3511	2.363	ug/L	86
46) Tetrachloroethene	8.02	164	3445	2.354	ug/L	97
48) 2-Hexanone	8.18	43	6372	4.765	ug/L #	91
49) Dibromochloromethane	8.29	129	4407	2.286	ug/L	96
50) 1,2-Dibromoethane	8.40	107	3935	2.395	ug/L #	93
51) Chlorobenzene	8.92	112	10624	2.510	ug/L	94
52) Ethylbenzene	9.06	91	16224	2.303	ug/L	100
53) m,p-Xylene	9.18	106	6369	2.343	ug/L	86
54) o-Xylene	9.59	106	5947	2.205	ug/L	91
55) Styrene	9.60	104	9864	2.171	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.28	83	6552	2.868	ug/L #	90
59) Bromoform	9.77	173	3147	2.169	ug/L #	95
60) Isopropylbenzene	9.97	105	16827	2.485	ug/L	98
61) 1,2,3-Trichloropropane	10.32	75	4398	2.619	ug/L	95
62) 1,3,5-Trimethylbenzene	10.58	105	13269	2.267	ug/L	98
63) 1,2,4-Trimethylbenzene	10.96	105	14045	2.431	ug/L	98
64) 1,3-Dichlorobenzene	11.23	146	8327	2.438	ug/L	94
65) 1,4-Dichlorobenzene	11.32	146	8896	2.576	ug/L	97
67) 1,2-Dichlorobenzene	11.69	146	8607	2.469	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.48	75	1259	2.275	ug/L	92
69) 1,3,5-Trichlorobenzene	12.69	180	6331	2.286	ug/L	97
70) 1,2,4-trichlorobenzene	13.31	180	4729	1.970	ug/L	94
71) Naphthalene	13.55	128	9425	1.549	ug/L	97
72) 1,2,3-Trichlorobenzene	13.79	180	4812	1.992	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.321 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 4353

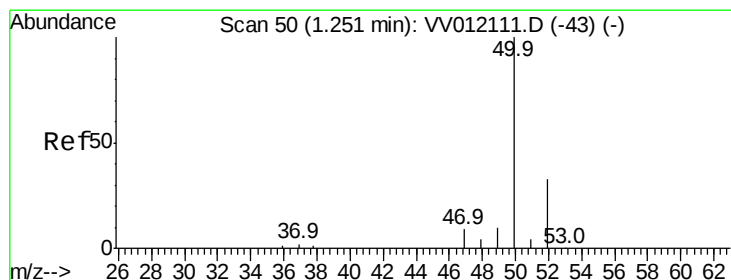
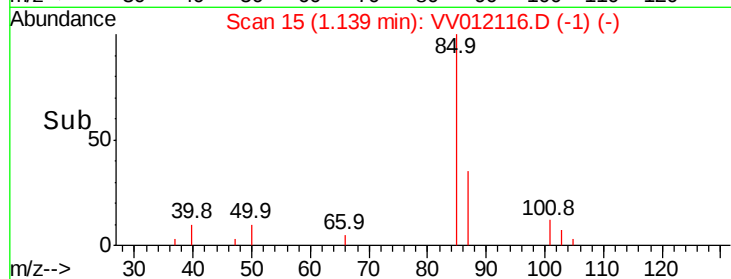
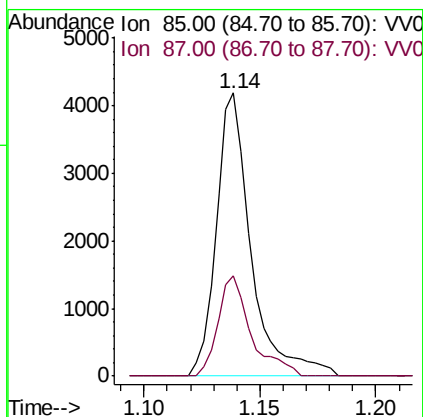
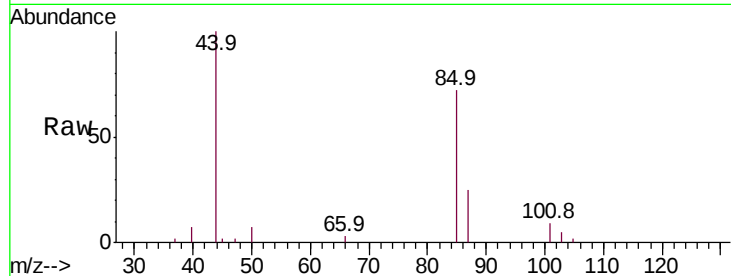
Ion Ratio Lower Upper

85 100

87 33.7 25.3 37.9

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#3

Chloromethane

Concen: 2.643 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012116.D

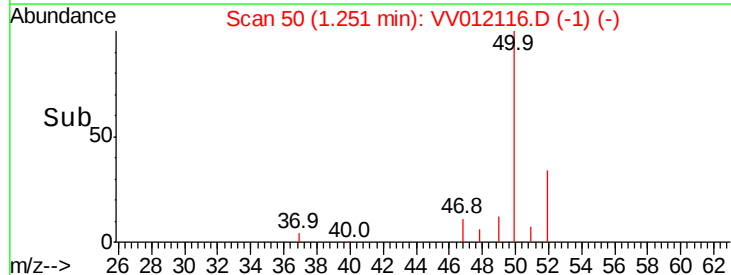
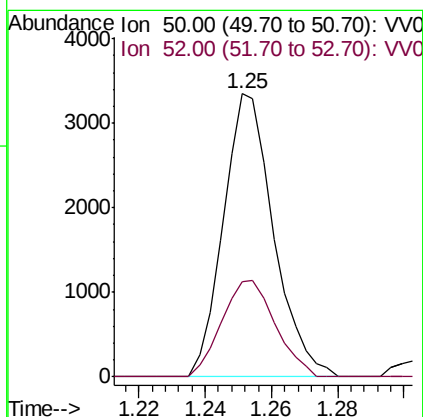
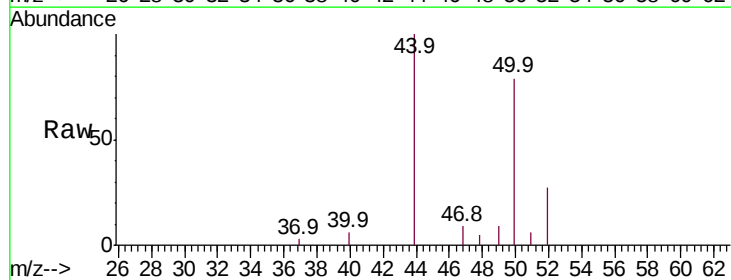
Acq: 06 Aug 2019 15:56

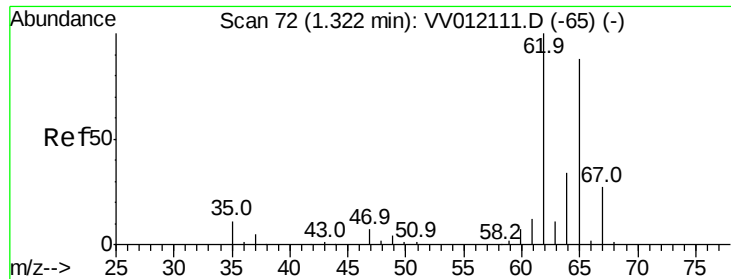
Tgt Ion: 50 Resp: 3519

Ion Ratio Lower Upper

50 100

52 33.9 23.9 44.3





#5

Vinyl chloride

Concen: 2.298 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 62 Resp: 2953

Ion Ratio Lower Upper

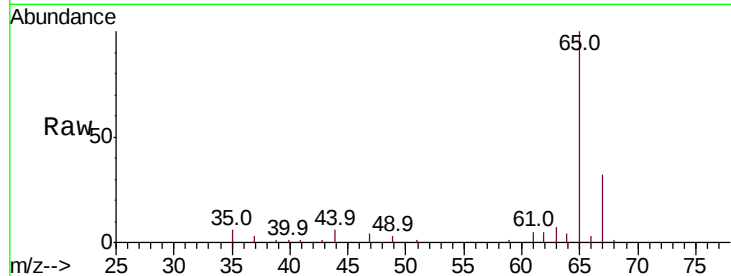
62 100

64 74.4 23.0 42.8#

Manual Integrations
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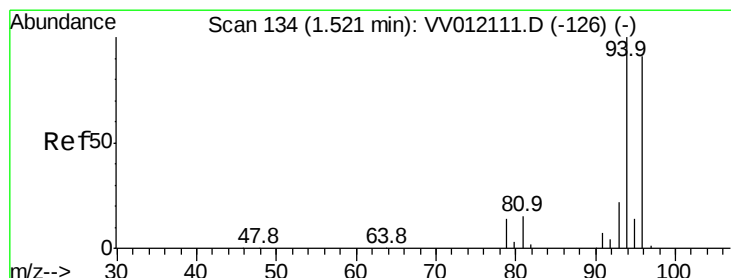
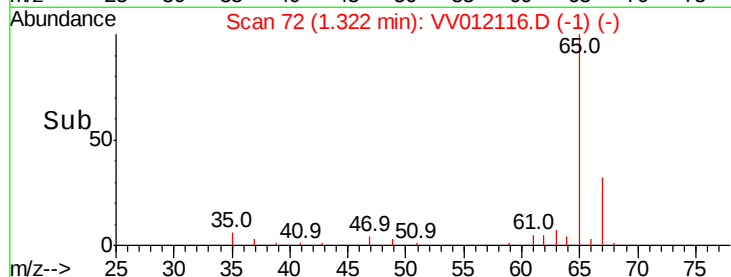
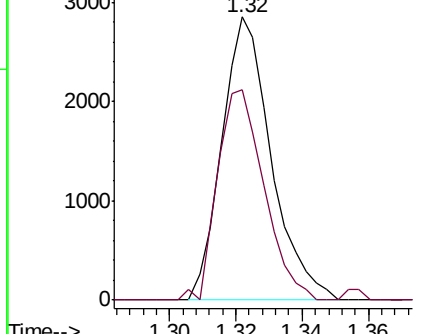
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.560 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.01 min

Lab File: VV012116.D

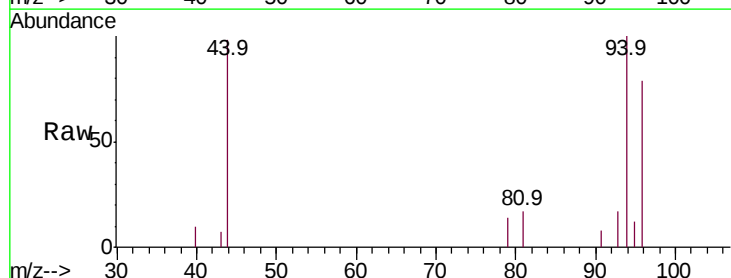
Acq: 06 Aug 2019 15:56

Tgt Ion: 94 Resp: 1910

Ion Ratio Lower Upper

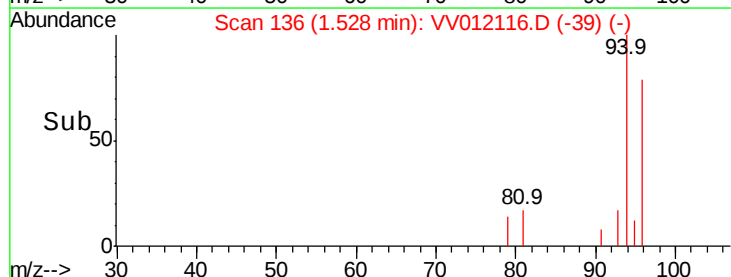
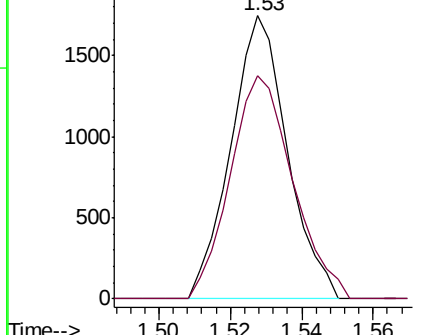
94 100

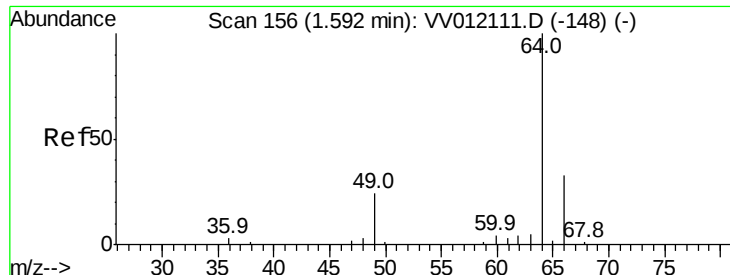
96 78.9 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





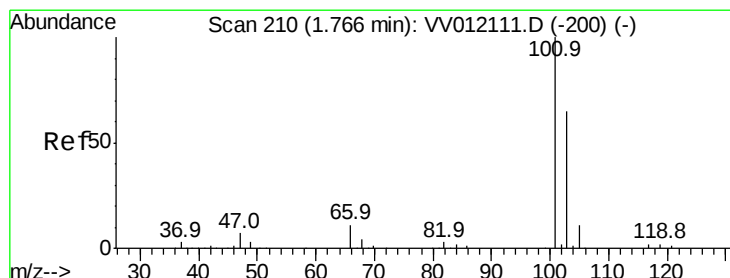
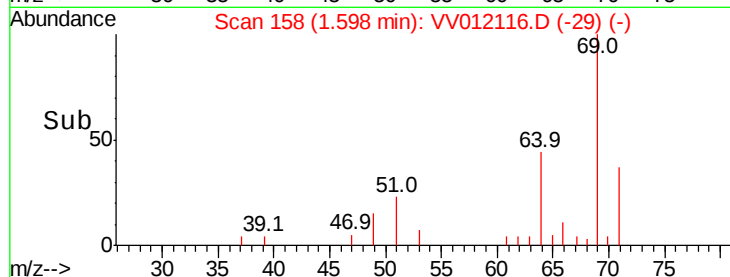
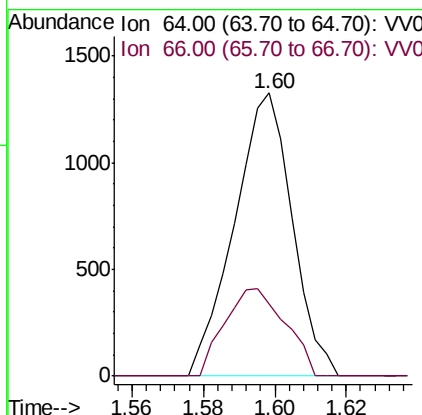
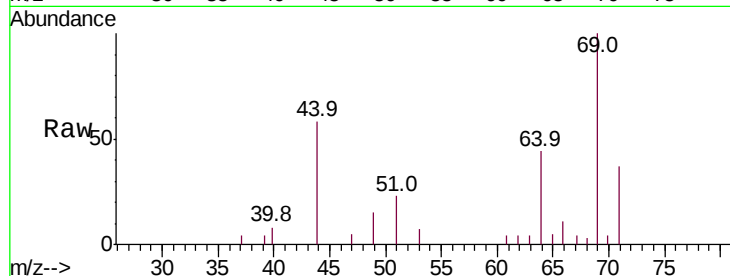
#8
Chloroethane
Concen: 2.212 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.02 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion: 64 Resp: 1489
Ion Ratio Lower Upper
64 100
66 25.3 22.6 42.0

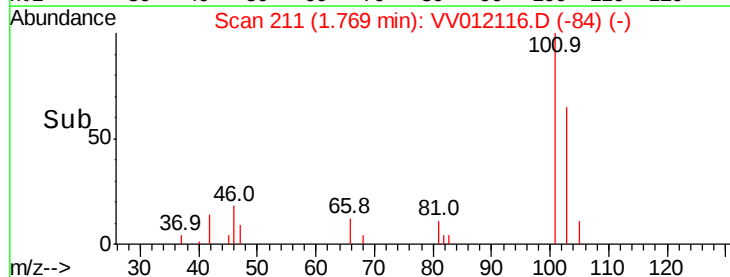
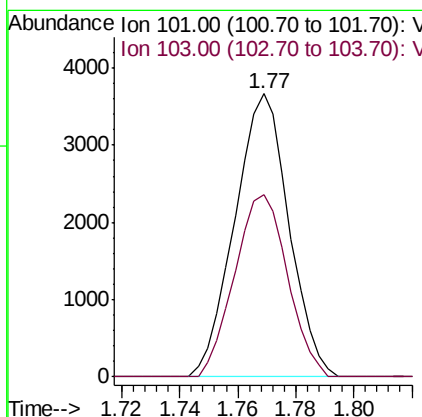
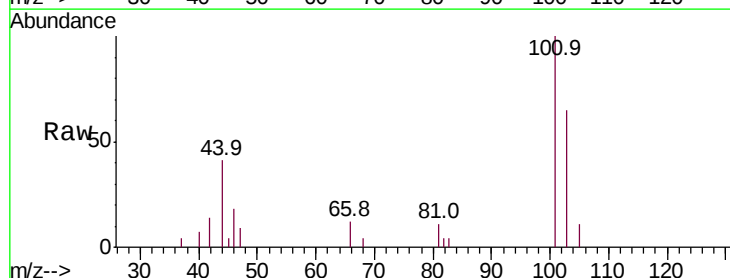
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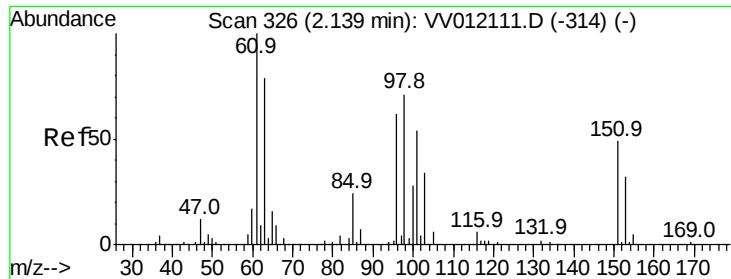
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#9
Trichlorofluoromethane
Concen: 2.276 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.01 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Tgt Ion: 101 Resp: 4756
Ion Ratio Lower Upper
101 100
103 62.8 52.5 78.7





#10

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

Concen: 2.986 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

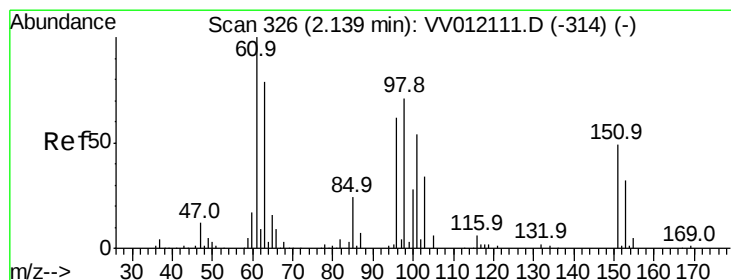
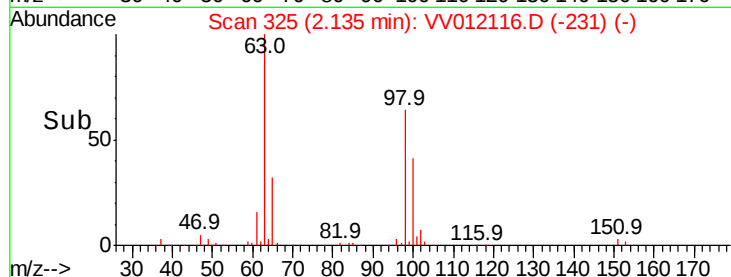
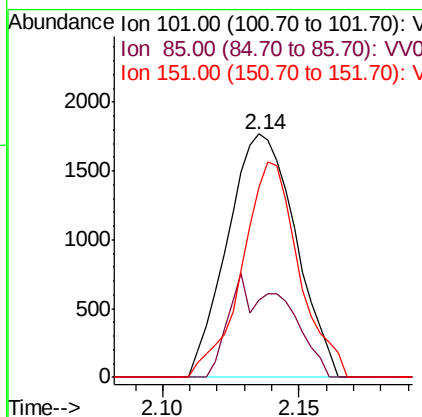
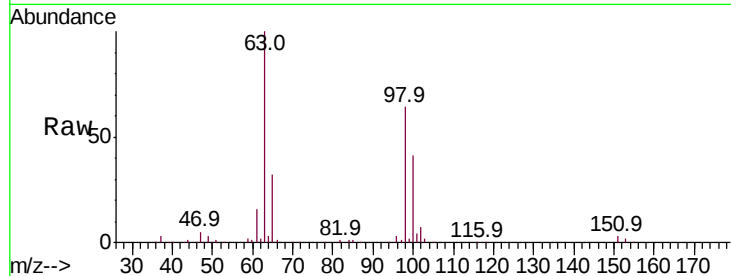
ClientSampleId :

MDL01

Tot Ion	Ratio	Lower	Upper
101	100		
85	21.9	34.4	51.6#
151	73.9	72.2	108.2

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#12

1,1-Dichloroethene

Concen: 2.790 ug/L

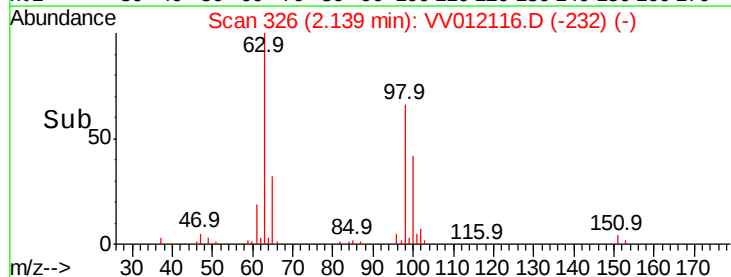
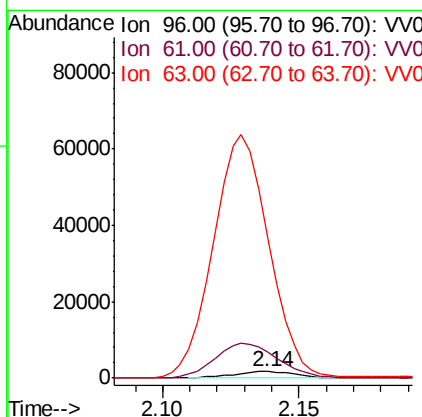
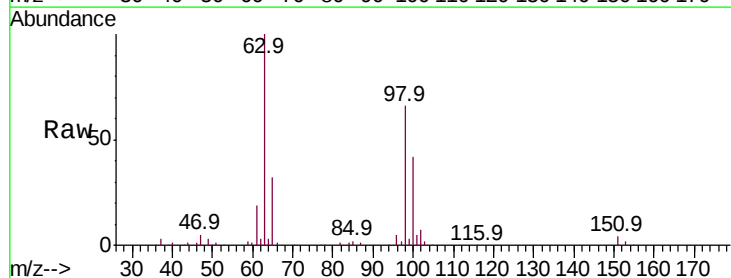
RT: 2.14 min Scan# 326

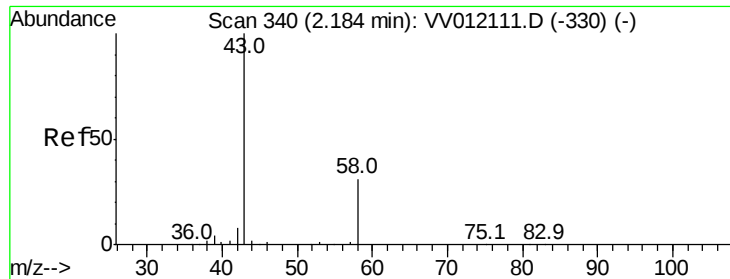
Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	418.4	120.0	223.0#
63	2219.9	98.3	182.7#





#13

Acetone

Concen: 4.927 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 3552

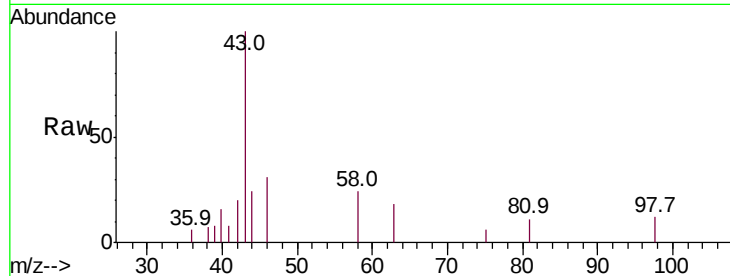
Ion Ratio Lower Upper

43 100

58 20.8 0.0 59.2

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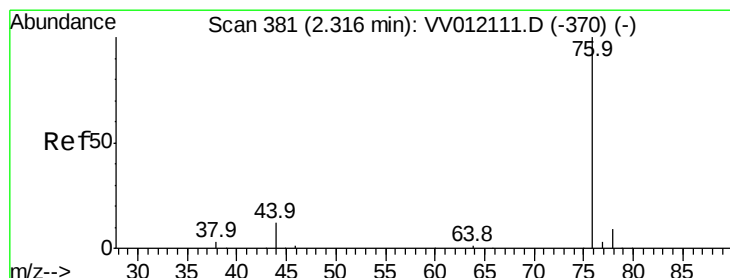
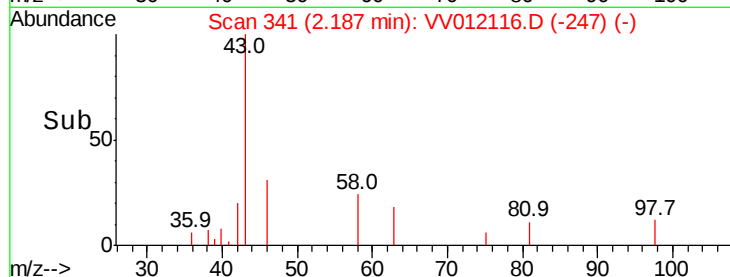
Abundance Ion 43.00 (42.70 to 43.70): VV012111.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV012111.D (-330) (-)

2.19

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 2.298 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV012116.D

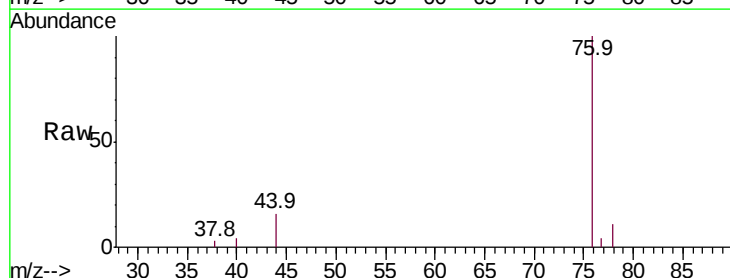
Acq: 06 Aug 2019 15:56

Tgt Ion: 76 Resp: 7491

Ion Ratio Lower Upper

76 100

78 10.8 7.1 10.7#



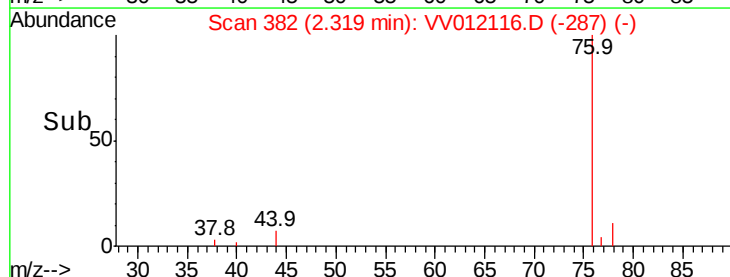
Abundance Ion 76.00 (75.70 to 76.70): VV012111.D (-370) (-)

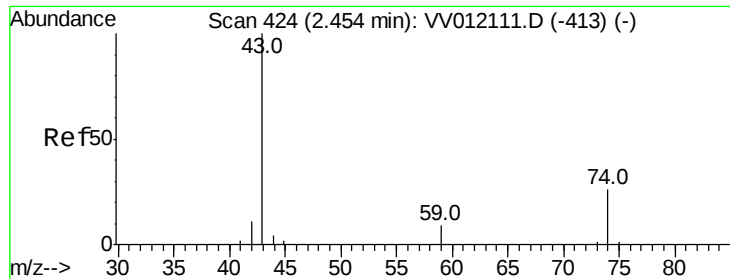
Ion 78.00 (77.70 to 78.70): VV012111.D (-370) (-)

2.32

2.30 2.35

Time-->





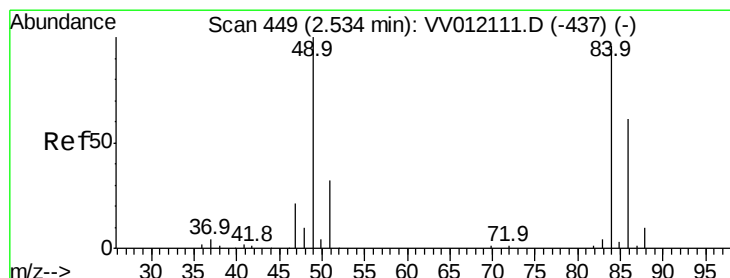
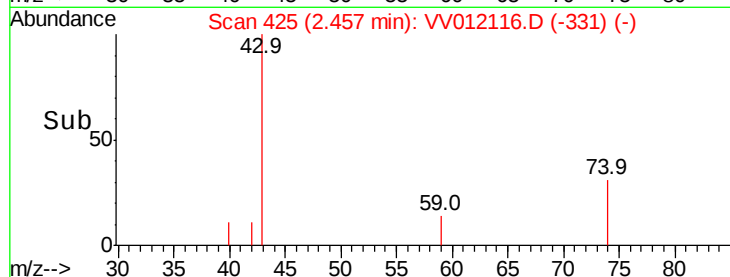
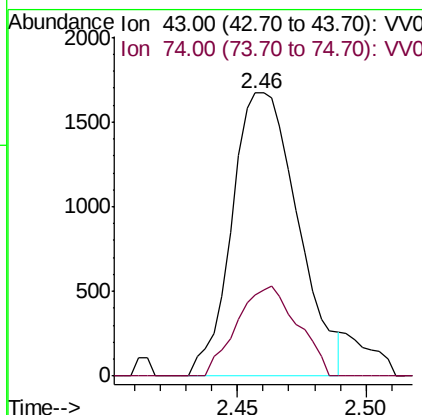
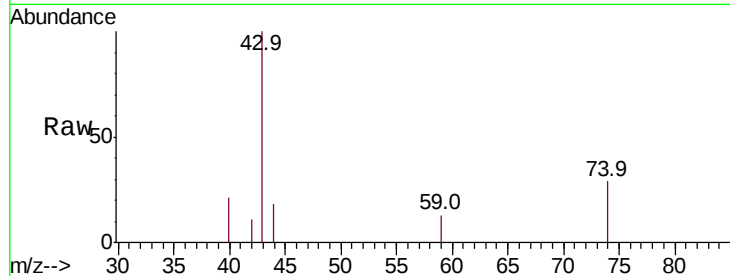
#15
Methyl Acetate
Concen: 2.369 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion: 43 Resp: 2989
Ion Ratio Lower Upper
43 100
74 29.2 21.8 32.6

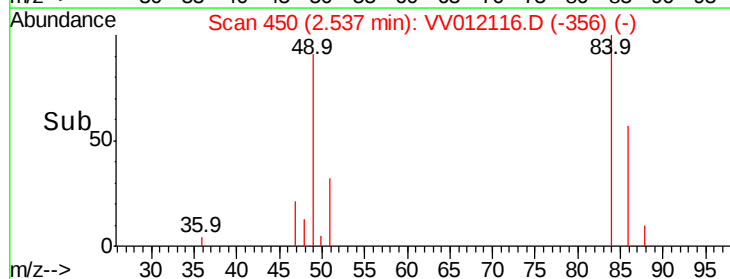
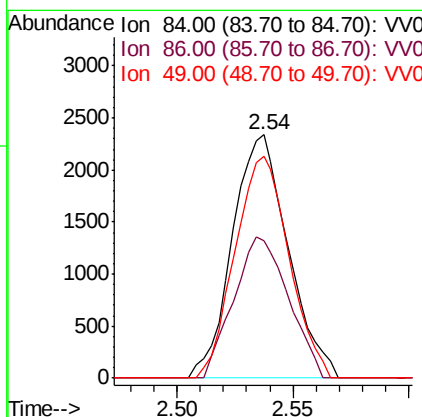
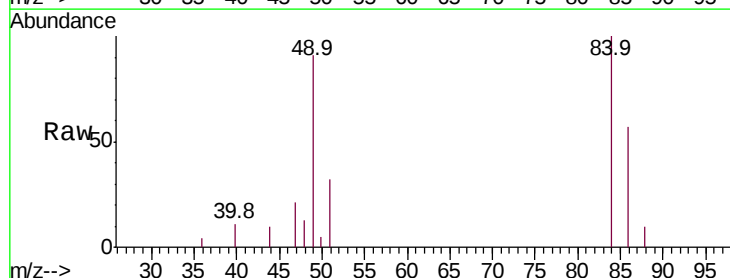
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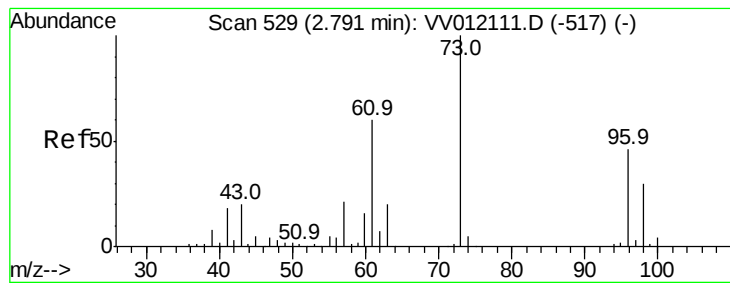
MMDadoda
8/7/2019 9:10:56 AM



#16
Methylene chloride
Concen: 2.668 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Tgt Ion: 84 Resp: 3904
Ion Ratio Lower Upper
84 100
86 56.5 45.7 84.9
49 91.1 76.6 142.2





#17

trans-1,2-Dichloroethene

Concen: 2.226 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.01 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 96 Resp: 3032

Ion Ratio Lower Upper

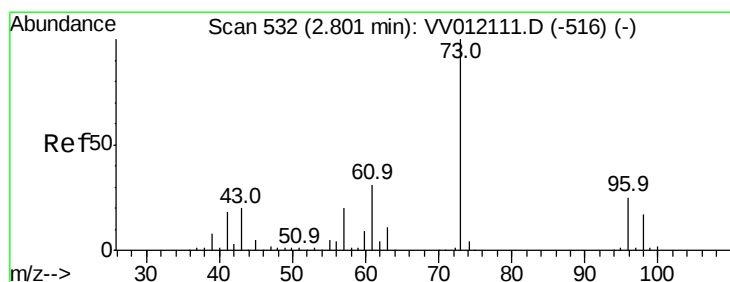
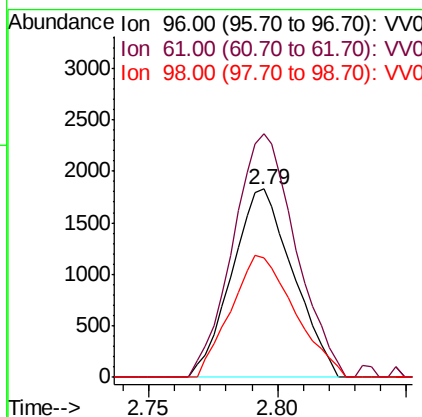
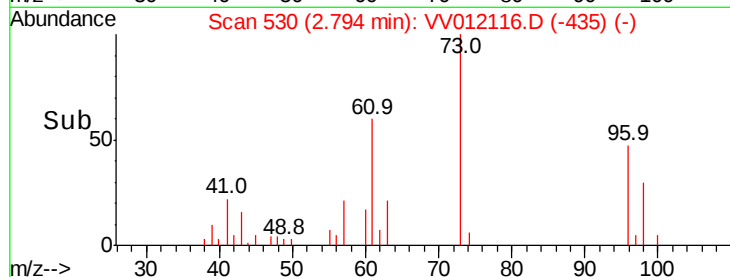
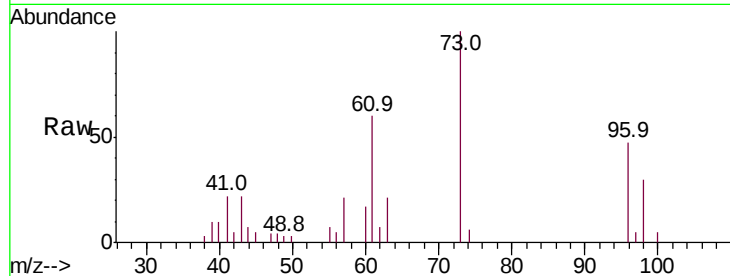
96 100

61 129.3 90.6 168.3

98 63.7 44.2 82.2

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#18

Methyl tert-butyl Ether

Concen: 2.257 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

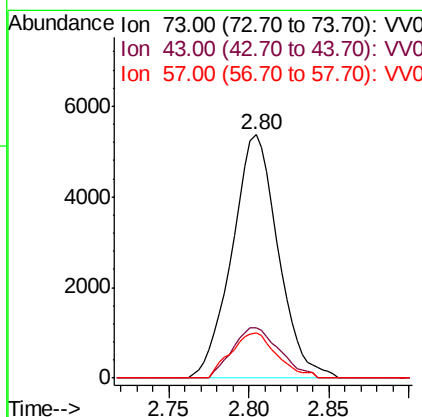
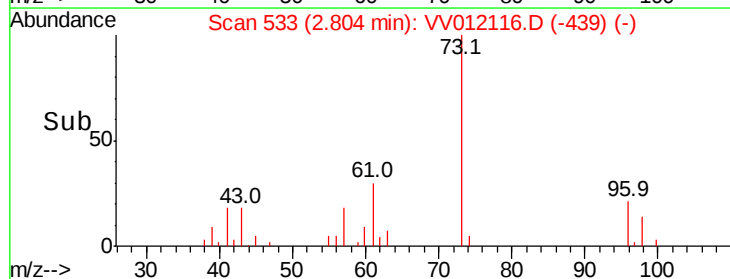
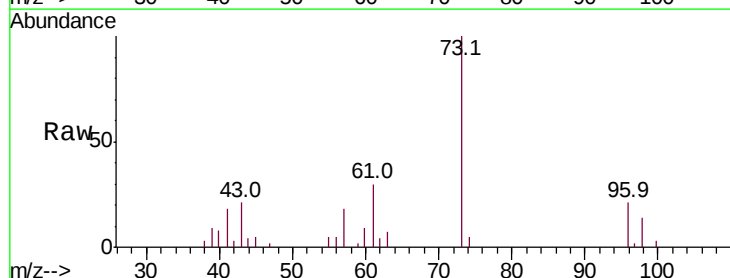
Tgt Ion: 73 Resp: 10565

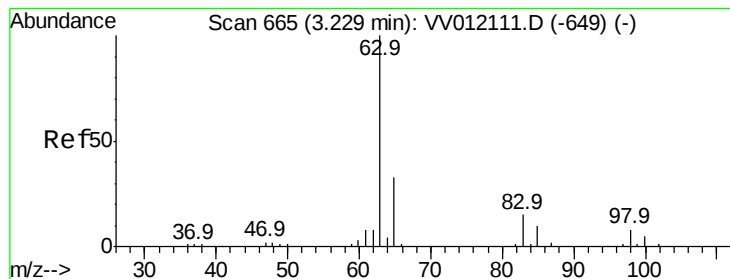
Ion Ratio Lower Upper

73 100

43 21.3 15.6 23.4

57 18.2 16.0 24.0





#19

1,1-Dichloroethane

Concen: 2.338 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

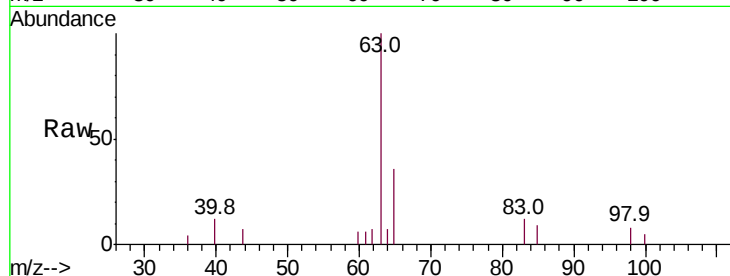
ClientSampleId :

MDL01

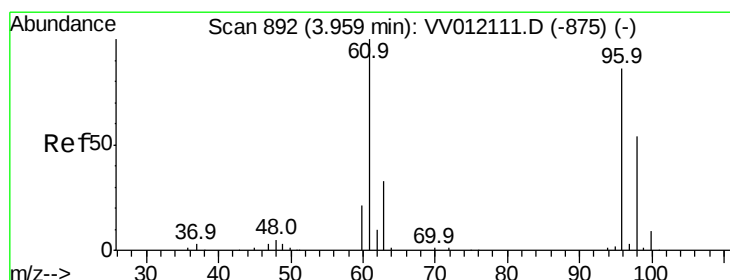
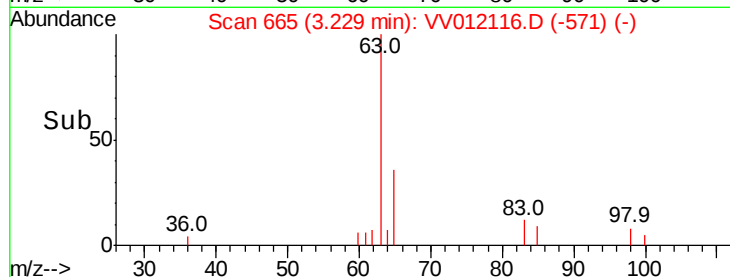
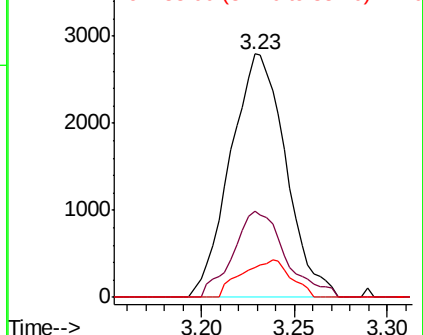
Tot Ion:	63	Resp:	5807
Ion	Ratio	Lower	Upper
63	100		
65	35.5	22.3	41.3
83	12.4	10.3	19.1

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Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 65.00 (64.70 to 65.70): VV0
Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 2.434 ug/L

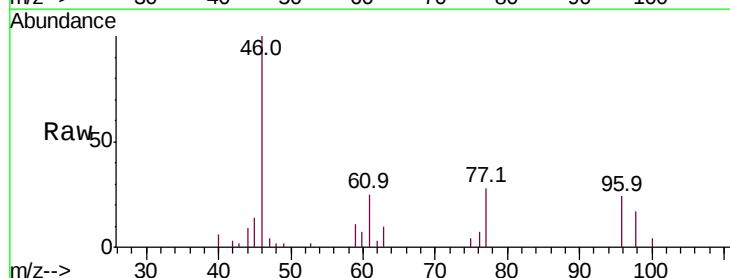
RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

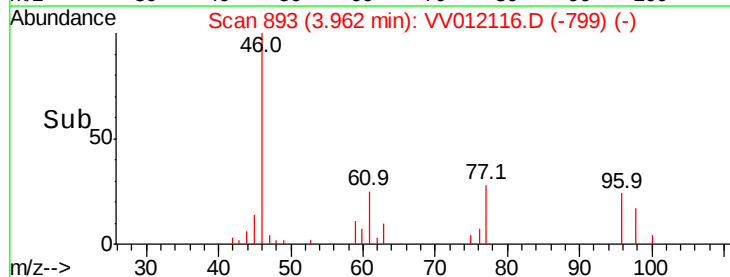
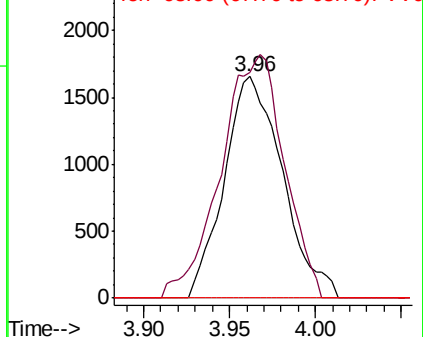
Lab File: VV012116.D

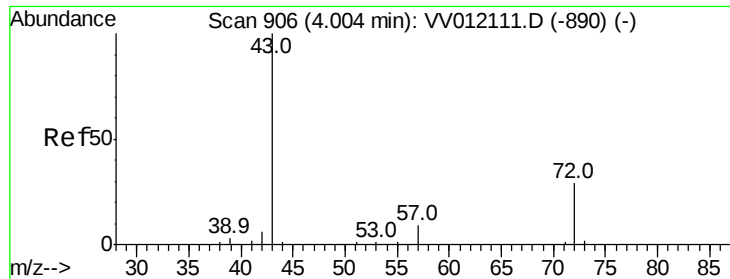
Acq: 06 Aug 2019 15:56

Tgt Ion:	96	Resp:	3905
Ion	Ratio	Lower	Upper
96	100		
61	101.8	80.0	148.6
68	0.0	0.0	0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 5.091 ug/L m

RT: 4.03 min Scan# 913

Delta R.T. 0.02 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 4730

Ion Ratio Lower Upper

43 100

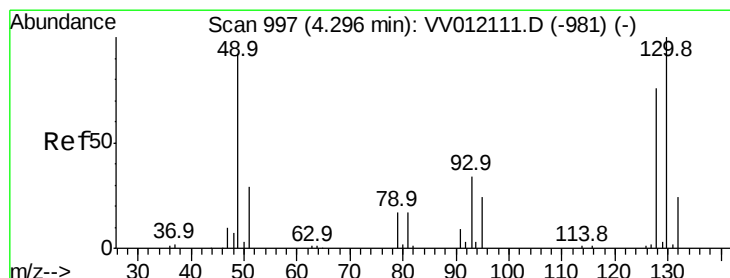
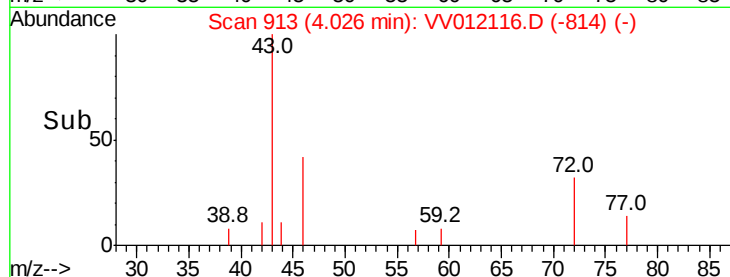
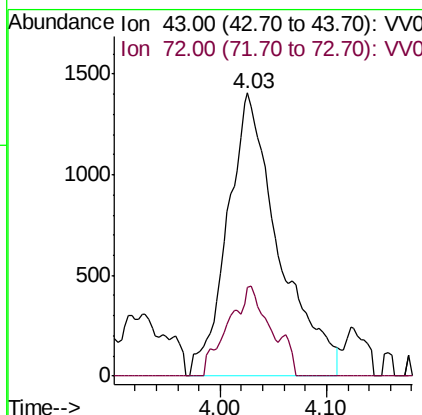
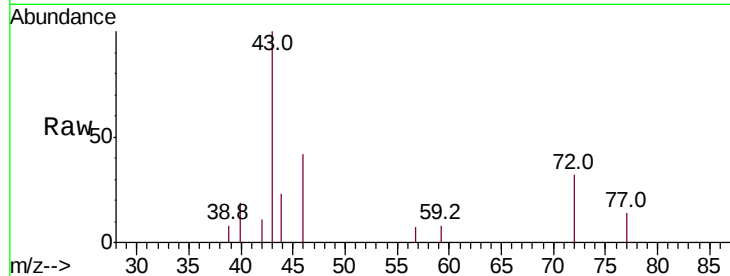
72 14.0 15.0 45.0#

Manual Integrations

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#23

Bromochloromethane

Concen: 2.169 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.01 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Tgt Ion: 128 Resp: 1913

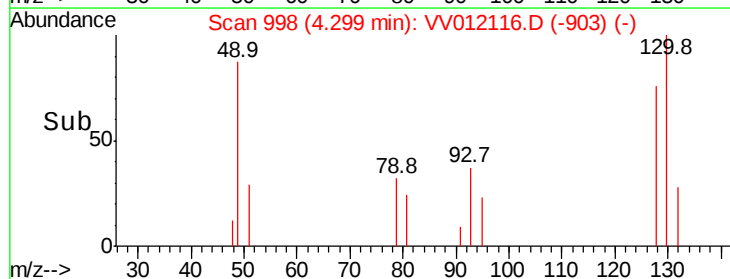
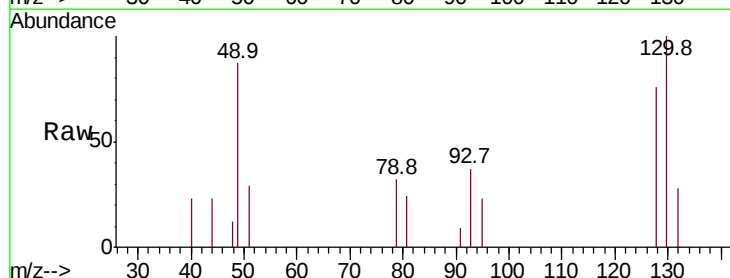
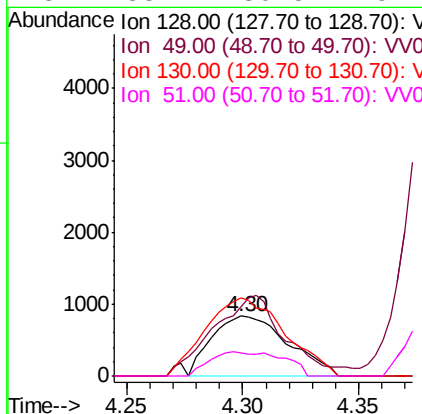
Ion Ratio Lower Upper

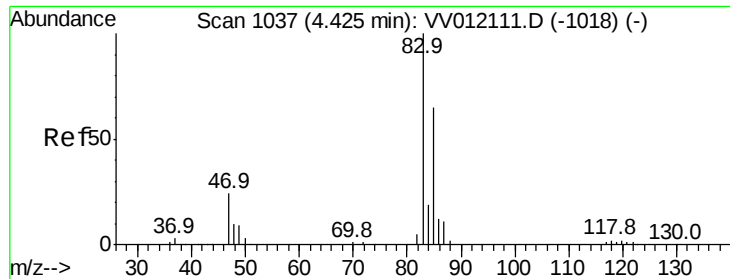
128 100

49 114.9 84.6 157.2

130 131.4 89.9 167.0

51 38.7 30.5 45.7





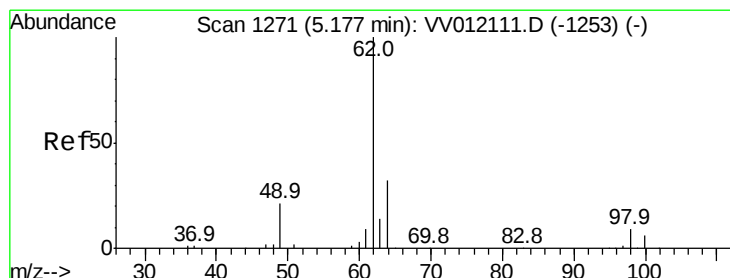
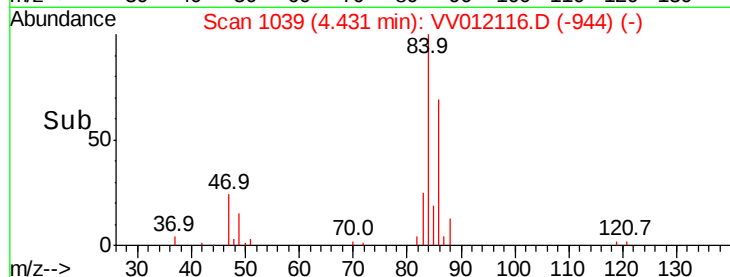
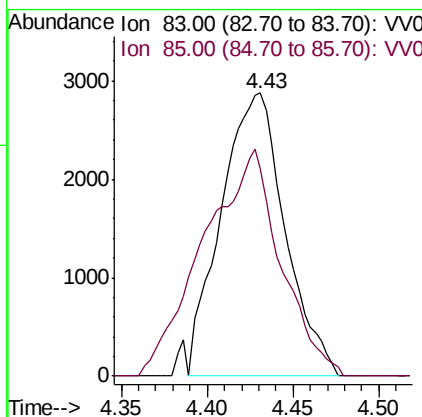
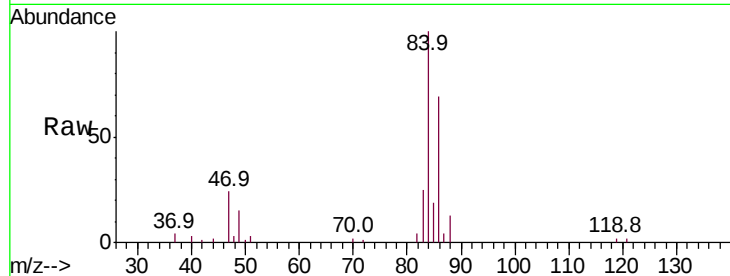
#25
Chloroform
Concen: 2.650 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. 0.01 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion: 83 Resp: 7461
Ion Ratio Lower Upper
83 100
85 73.5 45.8 85.2

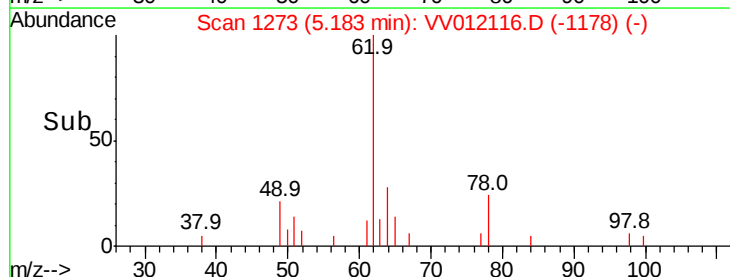
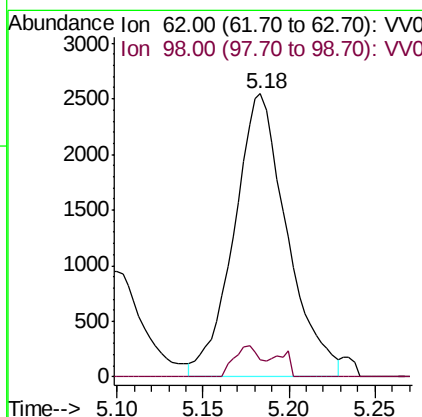
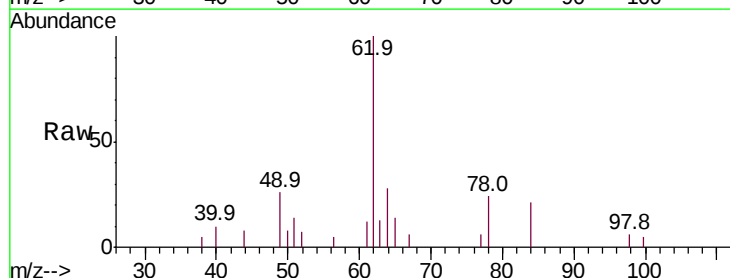
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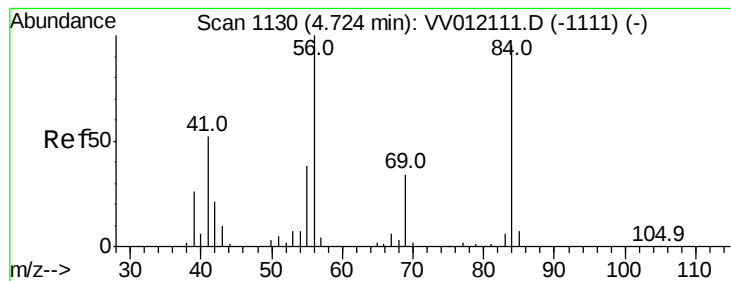
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.497 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Tgt Ion: 62 Resp: 5464
Ion Ratio Lower Upper
62 100
98 6.1 7.5 11.3#





#29

Cyclohexane

Concen: 2.339 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

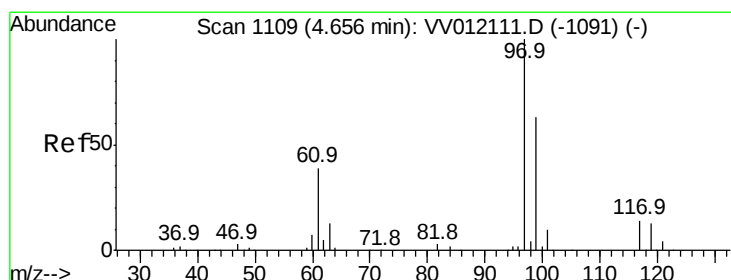
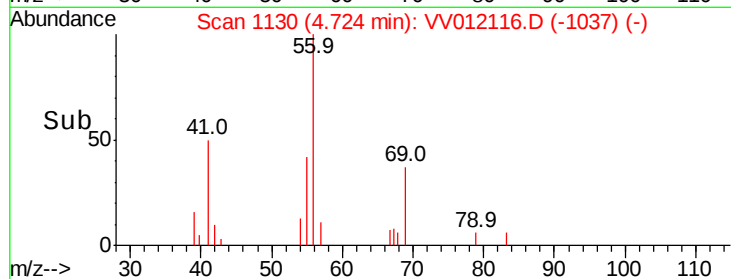
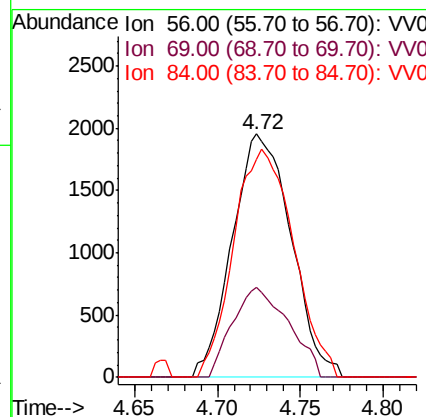
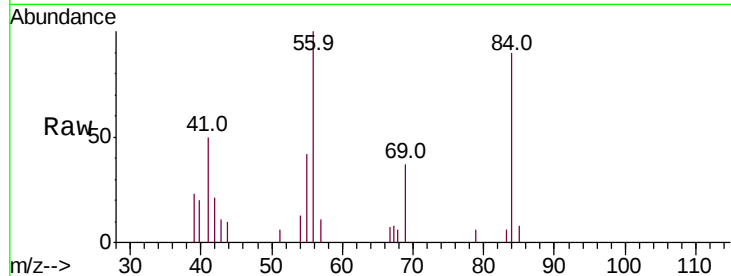
ClientSampled :

MDL01

Tot Ion:	56	Resp:	4802
Ion	Ratio	Lower	Upper
56	100		
69	35.3	25.8	38.8
84	95.9	76.0	114.0

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#30

1,1,1-Trichloroethane

Concen: 2.488 ug/L

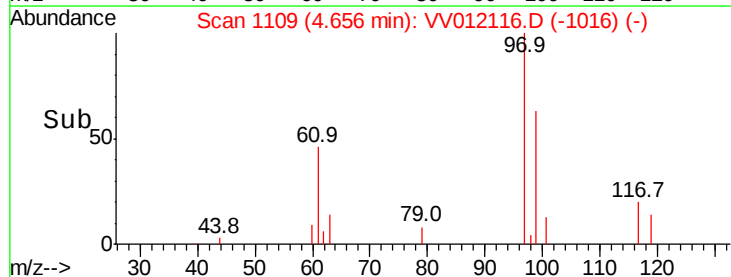
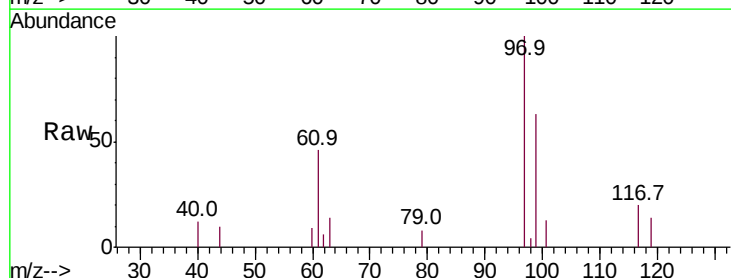
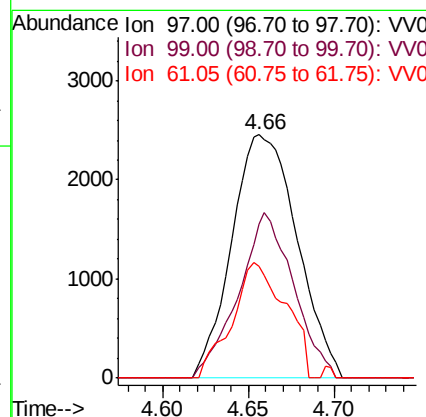
RT: 4.66 min Scan# 1109

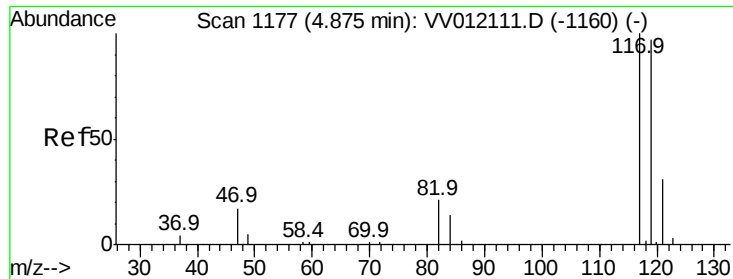
Delta R.T. -0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Tgt Ion:	97	Resp:	6488
Ion	Ratio	Lower	Upper
97	100		
99	57.2	51.1	76.7
61	38.8	31.3	46.9





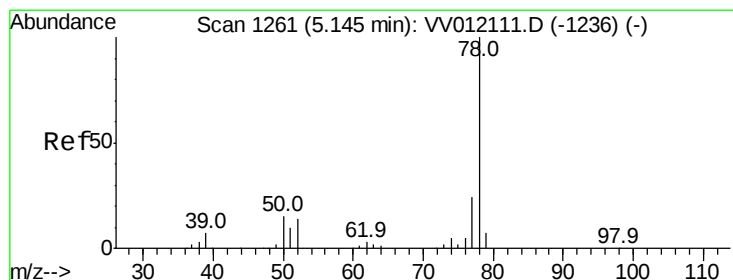
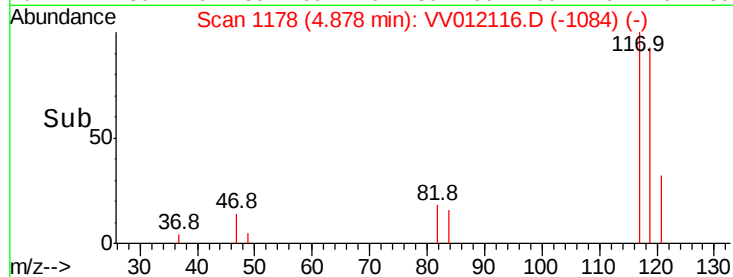
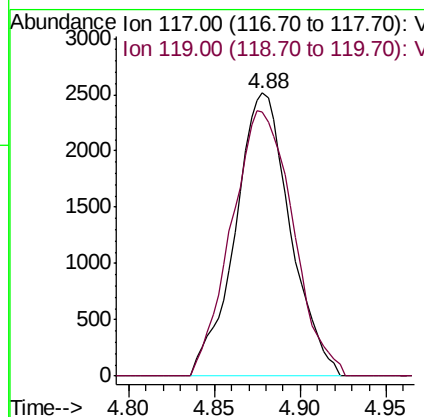
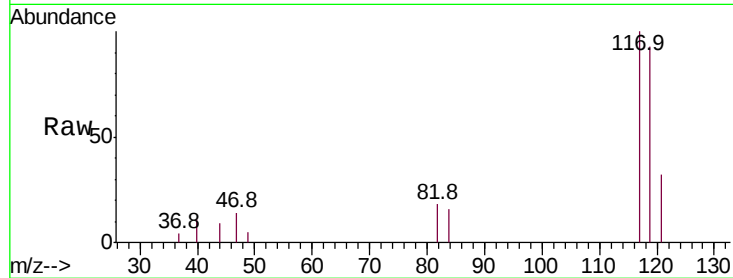
#31
Carbon tetrachloride
Concen: 2.313 ug/L
RT: 4.88 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion:117 Resp: 5595
Ion Ratio Lower Upper
117 100
119 104.8 78.2 117.4

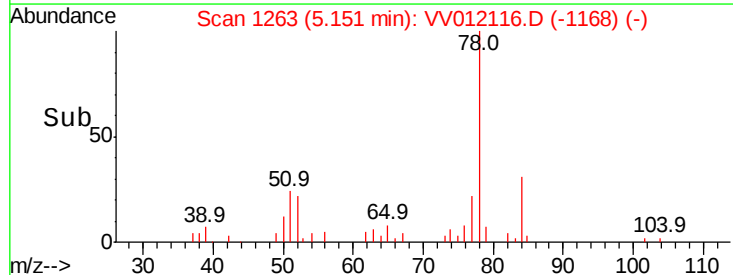
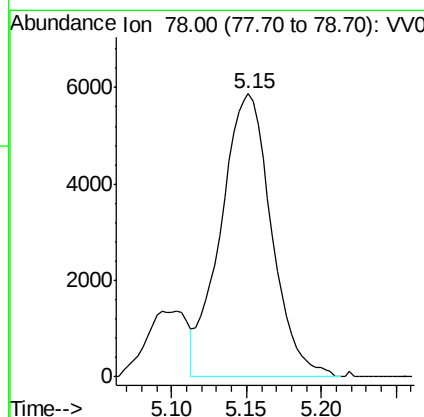
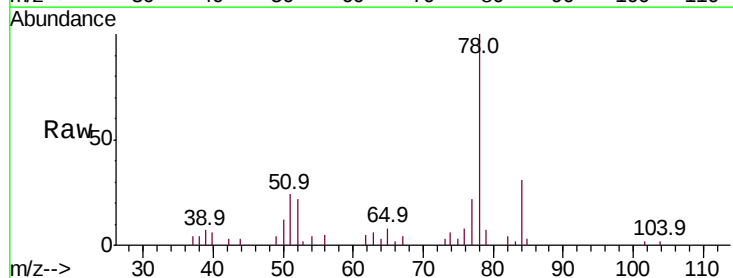
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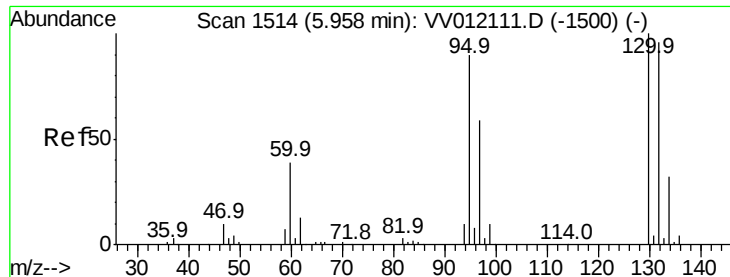
MMDadoda
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#33
Benzene
Concen: 2.452 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Tgt Ion: 78 Resp: 13856





#34
 Trichloroethene
 Concen: 2.344 ug/L
 RT: 5.96 min Scan# 1516
 Delta R.T. 0.01 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

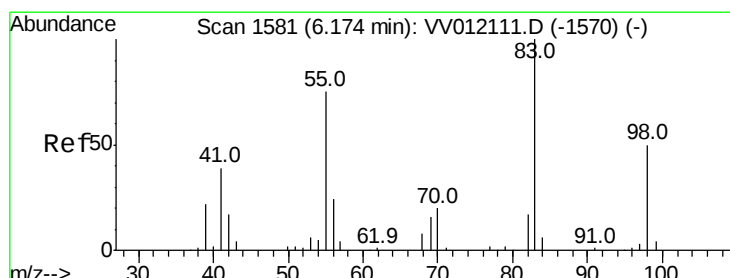
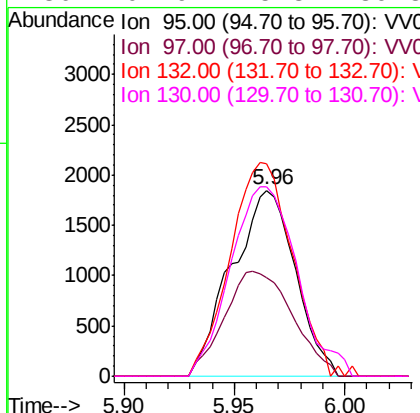
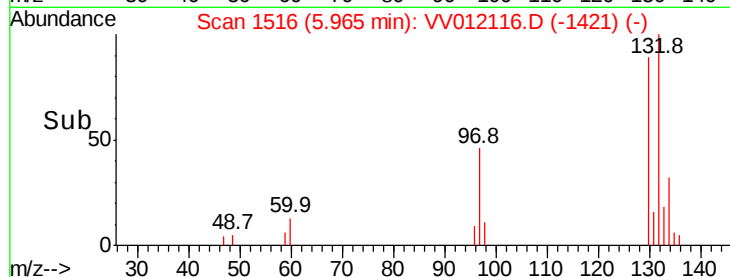
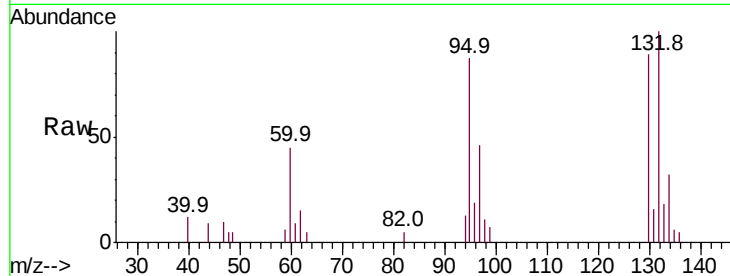
Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion: 95 Resp: 3681

Ion	Ratio	Lower	Upper
95	100		
97	52.7	43.4	80.6
132	114.5	73.1	135.8
130	101.9	75.3	139.8

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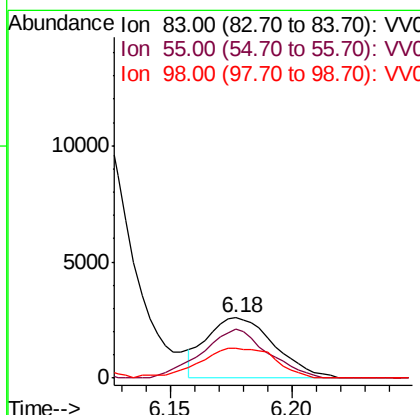
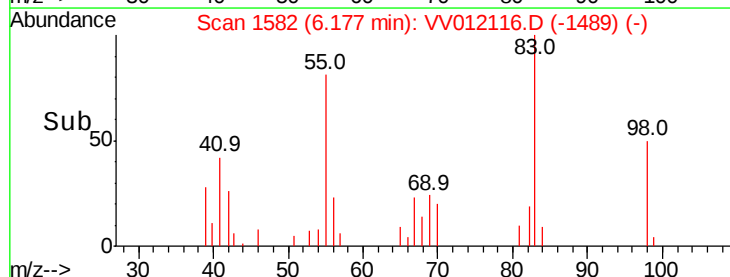
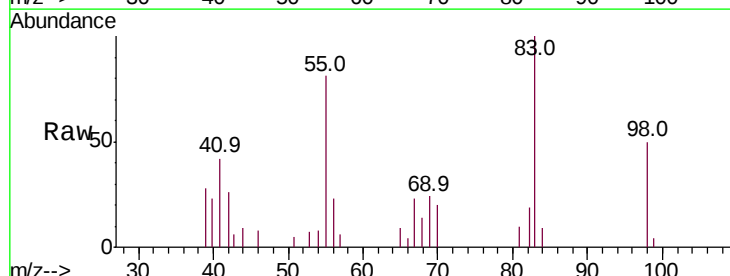
MMDadoda
 8/7/2019 9:10:56 AM

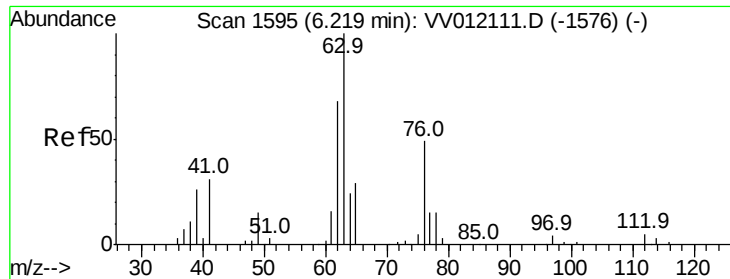


#35
 Methylcyclohexane
 Concen: 2.144 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Tgt Ion: 83 Resp: 5013

Ion	Ratio	Lower	Upper
83	100		
55	78.7	55.5	83.3
98	55.2	38.5	57.7





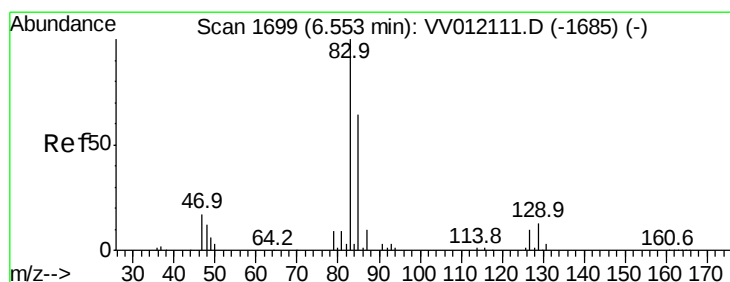
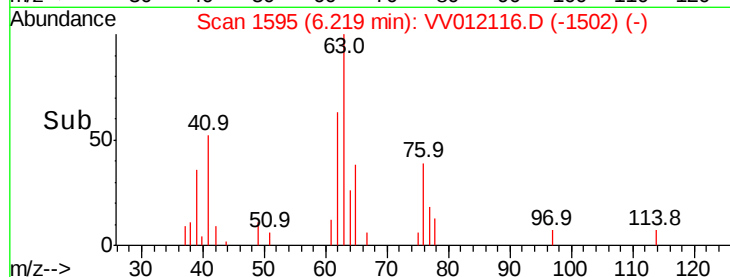
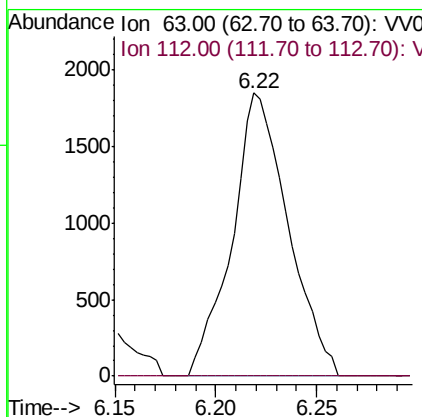
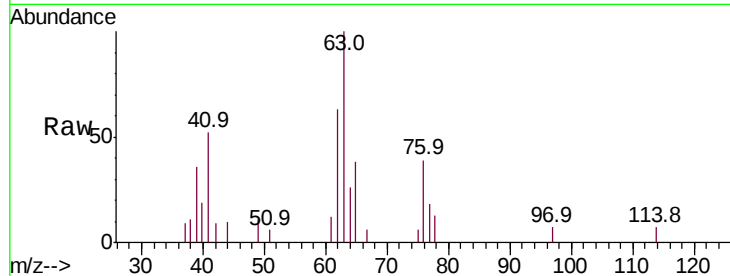
#37
 1,2-Dichloropropane
 Concen: 2.604 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion: 63 Resp: 3589
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.2 6.2#

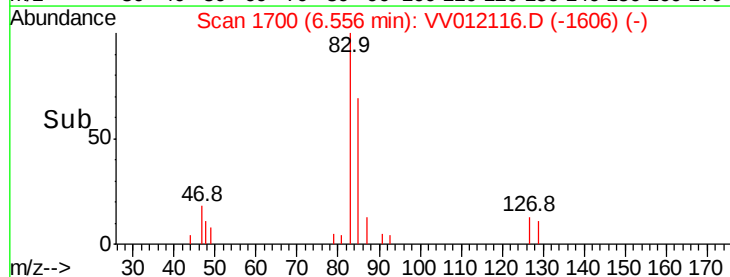
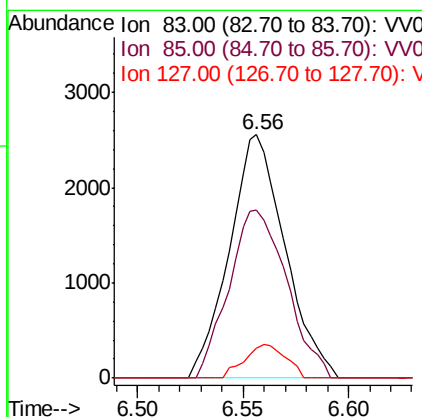
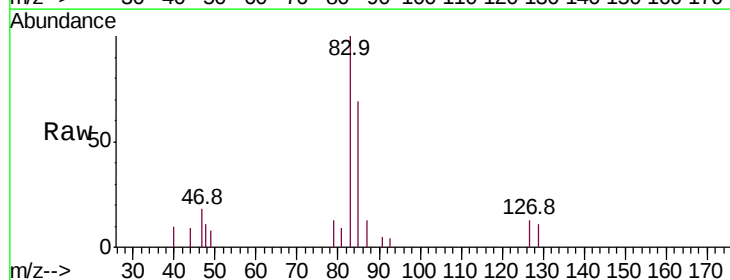
Manual Integrations
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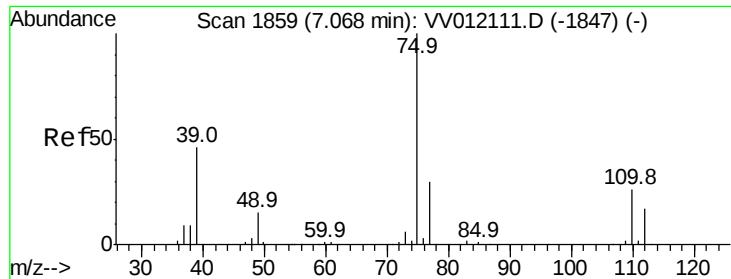
MMDadoda
 8/7/2019 9:10:56 AM



#38
 Bromodichloromethane
 Concen: 2.156 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Tgt Ion: 83 Resp: 4675
 Ion Ratio Lower Upper
 83 100
 85 68.9 45.0 83.6
 127 12.5 7.9 11.9#





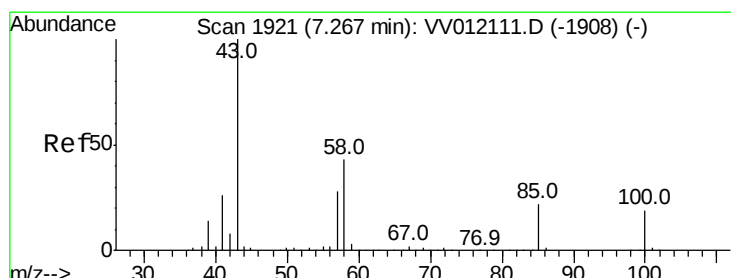
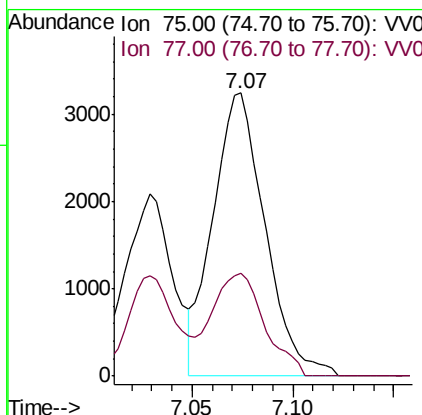
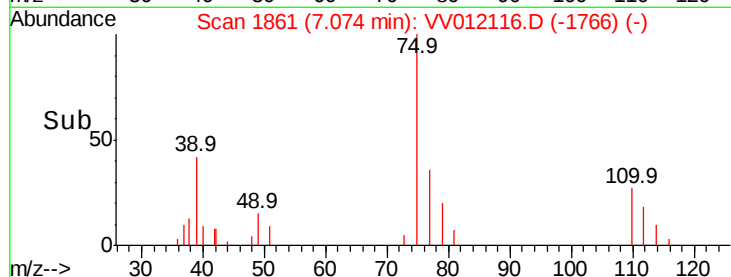
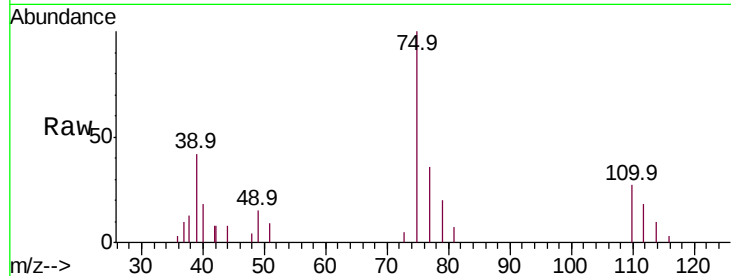
#39
 cis-1,3-Dichloropropene
 Concen: 2.405 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.01 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion: 75 Resp: 5845
 Ion Ratio Lower Upper
 75 100
 77 36.1 22.3 41.5

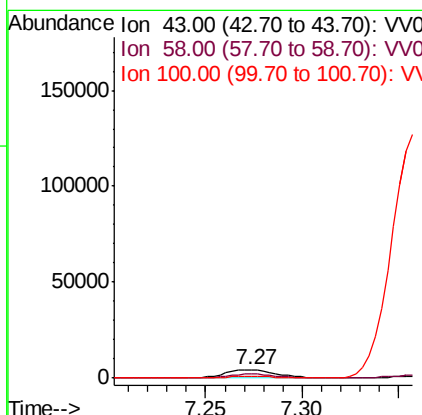
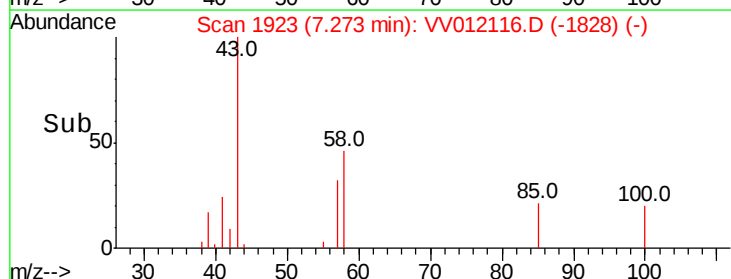
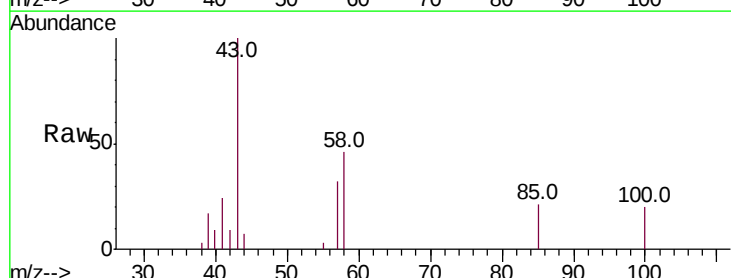
Manual Integrations
 APPROVED

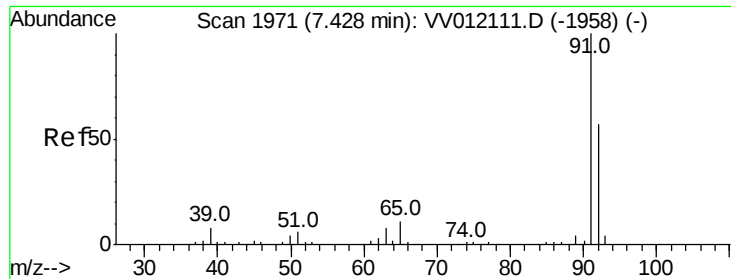
MMDadoda
 8/7/2019 9:10:56 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.634 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.01 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Tgt Ion: 43 Resp: 8220
 Ion Ratio Lower Upper
 43 100
 58 43.1 33.4 50.2
 100 18.6 15.0 22.4





#42

Toluene

Concen: 2.543 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 91 Resp: 15969

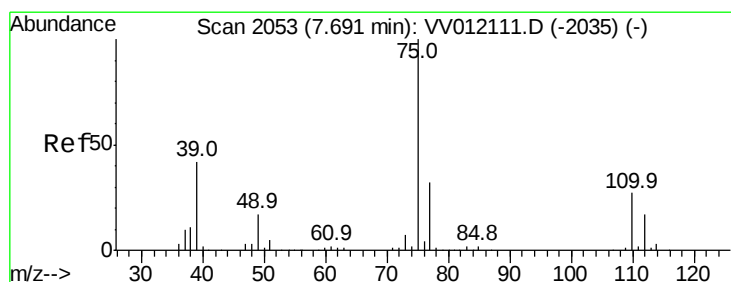
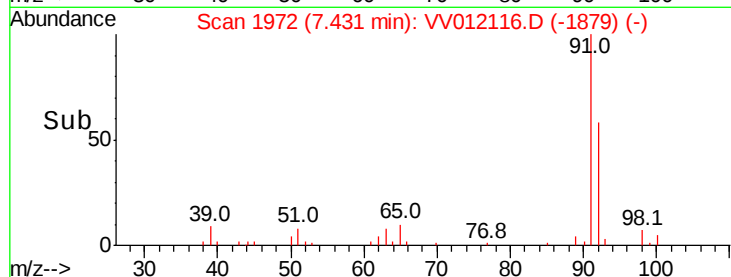
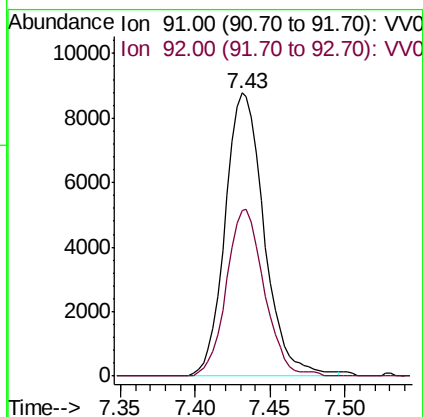
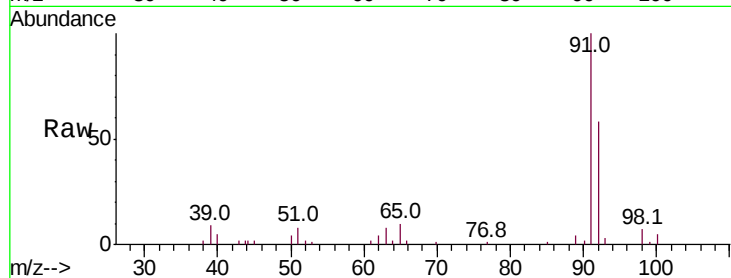
Ion Ratio Lower Upper

91 100

92 58.3 40.1 74.5

Manual Integrations
APPROVED

MMDadoda
8/7/2019 9:10:56 AM



#44

trans-1,3-Dichloropropene

Concen: 2.189 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012116.D

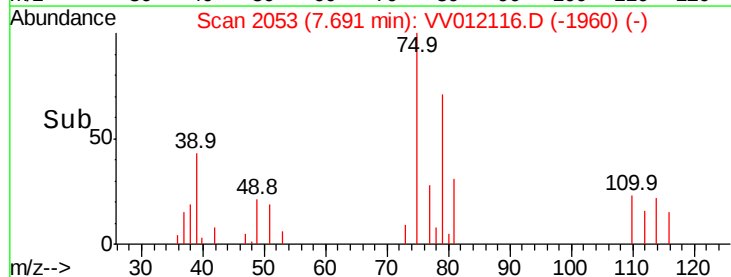
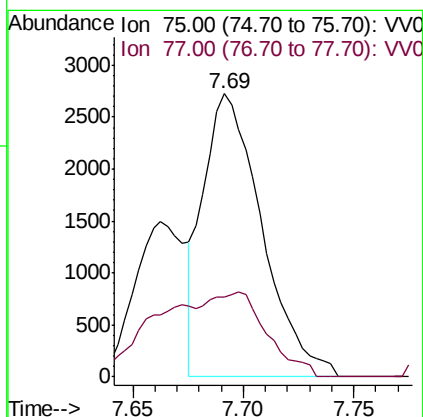
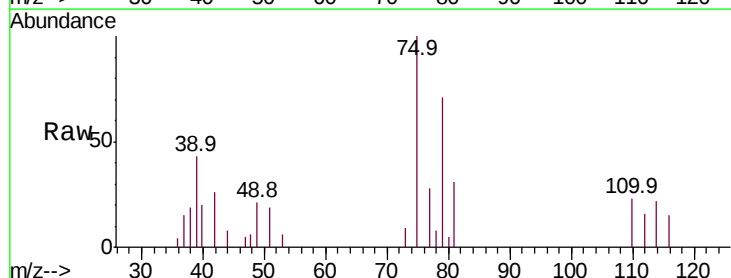
Acq: 06 Aug 2019 15:56

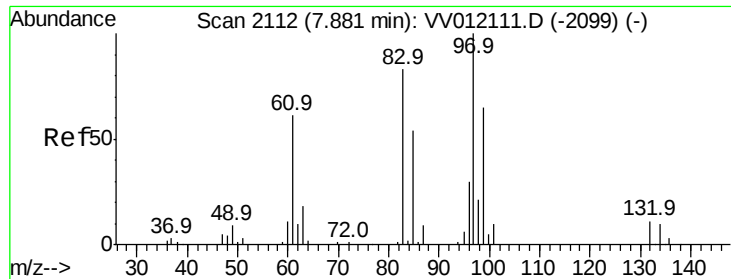
Tgt Ion: 75 Resp: 5022

Ion Ratio Lower Upper

75 100

77 28.1 21.8 40.4





#45

1,1,2-Trichloroethane

Concen: 2.363 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 97 Resp: 3511

Ion Ratio Lower Upper

97 100

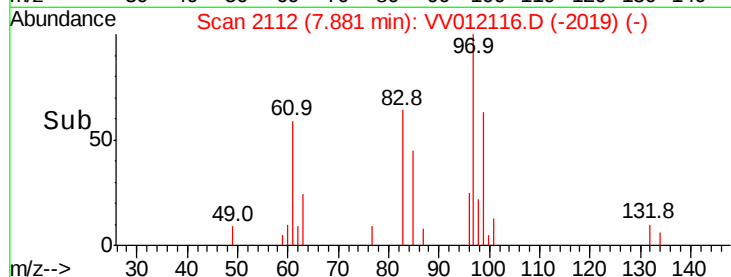
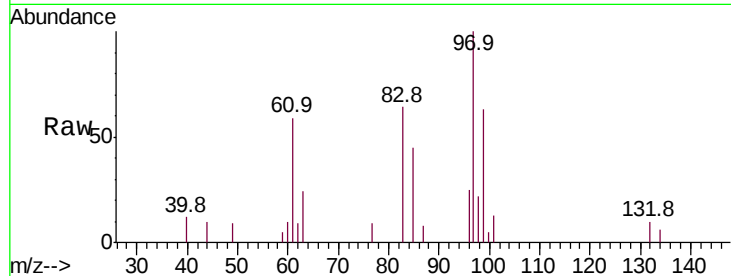
99 62.6 47.2 87.6

83 63.9 58.0 107.6

85 45.3 38.0 70.6

Manual Integrations
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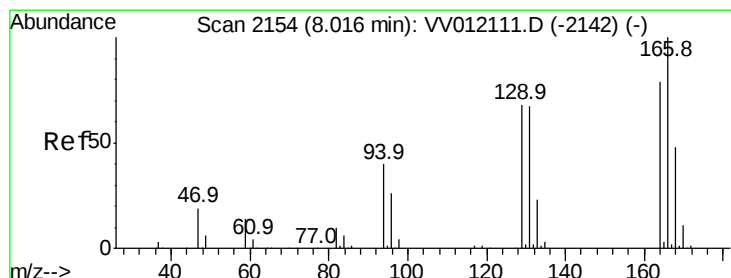
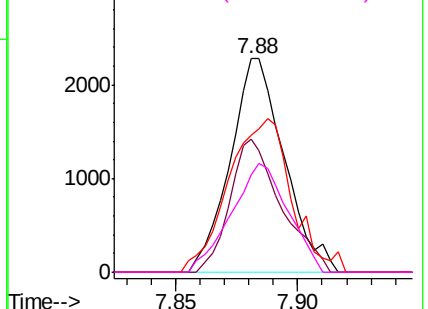


Abundance Ion 97.00 (96.70 to 97.70): VV012116.D (-2019) (-)

Ion 99.00 (98.70 to 99.70): VV012116.D (-2019) (-)

Ion 83.00 (82.70 to 83.70): VV012116.D (-2019) (-)

Ion 85.00 (84.70 to 85.70): VV012116.D (-2019) (-)



#46

Tetrachloroethene

Concen: 2.354 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Tgt Ion: 164 Resp: 3445

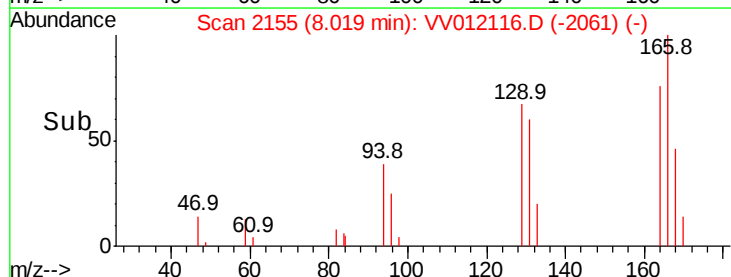
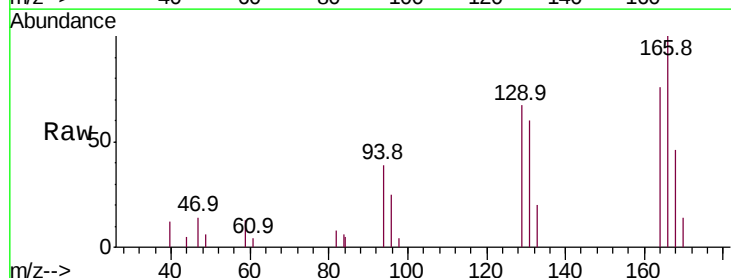
Ion Ratio Lower Upper

164 100

129 88.6 64.3 119.5

131 79.0 60.1 111.7

166 131.5 91.8 170.6

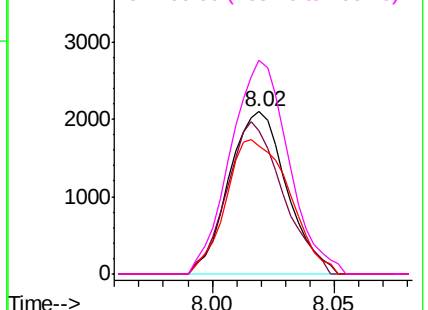


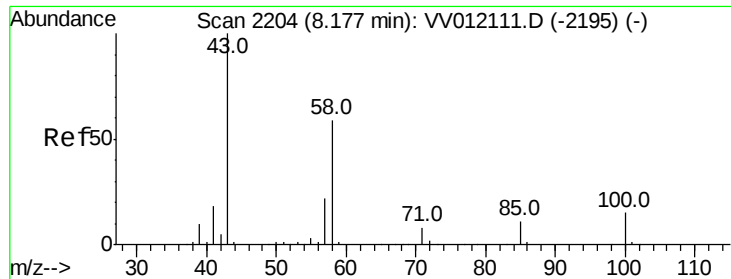
Abundance Ion 164.00 (163.70 to 164.70): VV012116.D (-2061) (-)

Ion 129.00 (128.70 to 129.70): VV012116.D (-2061) (-)

Ion 131.00 (130.70 to 131.70): VV012116.D (-2061) (-)

Ion 166.00 (165.70 to 166.70): VV012116.D (-2061) (-)





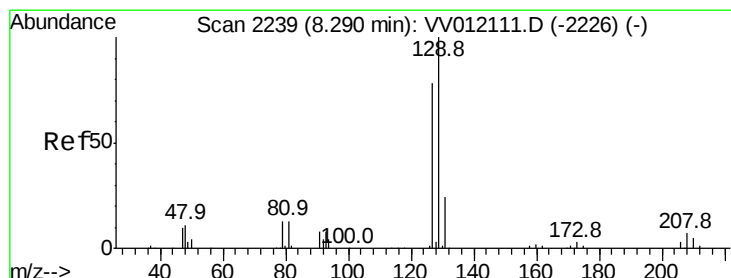
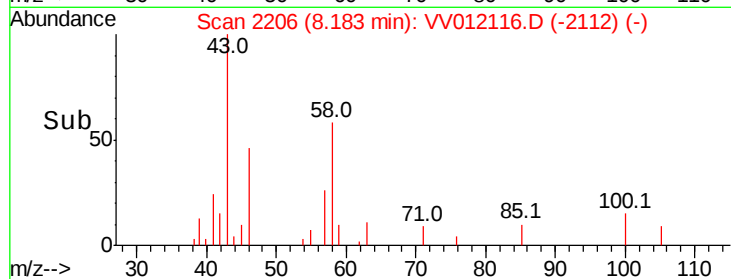
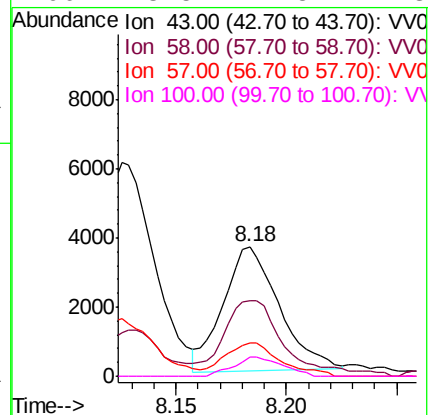
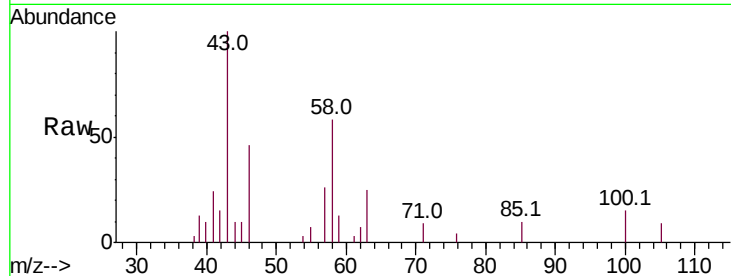
#48
2-Hexanone
Concen: 4.765 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.0	45.6	68.4
57	26.8	17.0	25.6
100	13.5	11.5	17.3

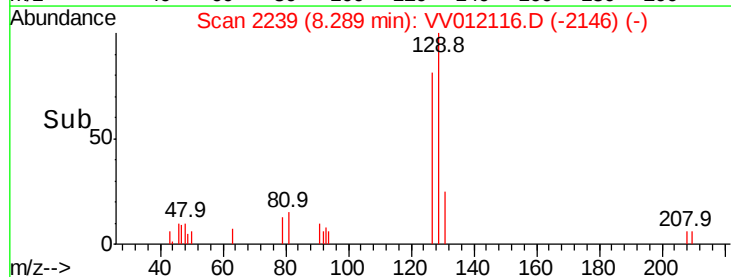
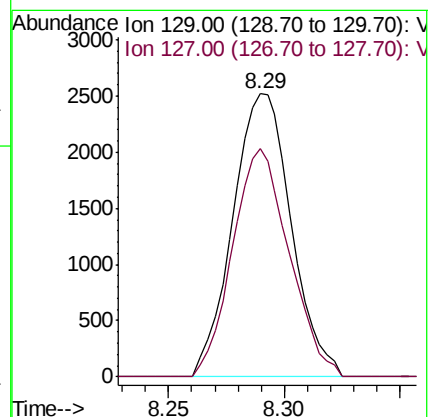
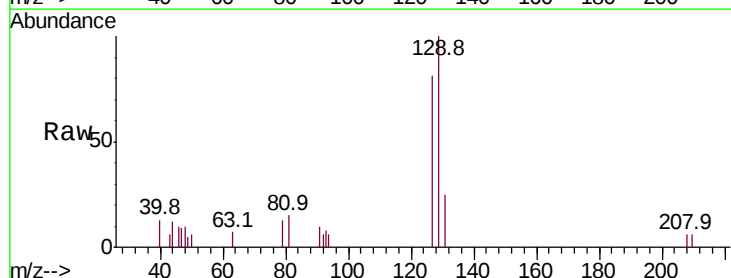
Manual Integrations
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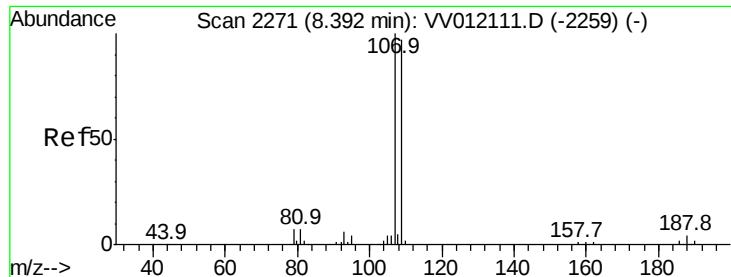
MMDadoda
8/7/2019 9:10:56 AM



#49
Dibromochloromethane
Concen: 2.286 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012116.D
Acq: 06 Aug 2019 15:56

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.6	53.8	100.0





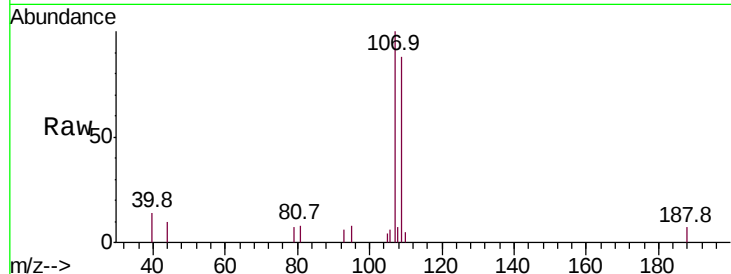
#50
 1,2-Dibromoethane
 Concen: 2.395 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	3935		
109	88.3	67.0	124.4	
188	7.0	3.9	5.9#	

Manual Integrations
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MMDadoda
 8/7/2019 9:10:56 AM

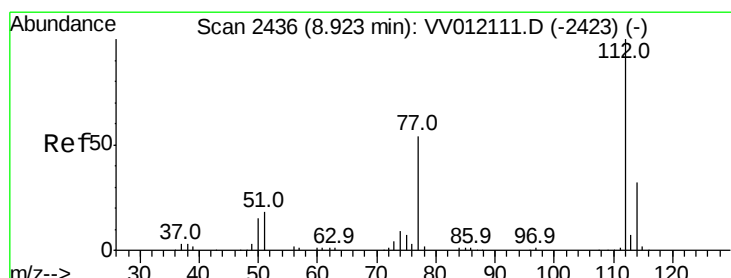
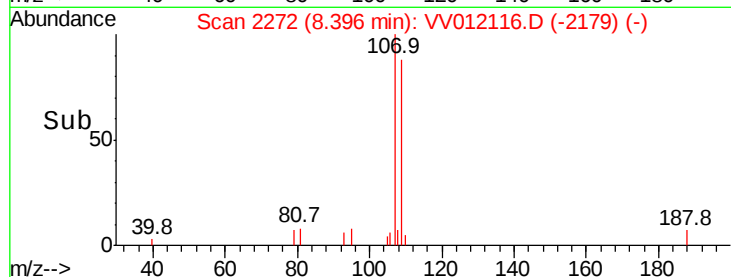
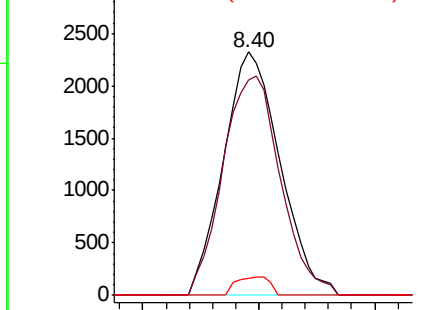


Abundance

Ion 107.00 (106.70 to 107.70): V

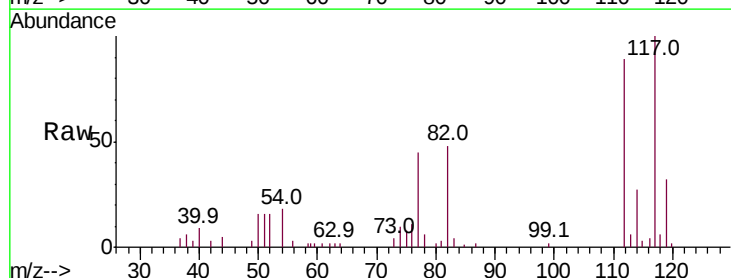
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
 Chlorobenzene
 Concen: 2.510 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	10624		
114	30.7	22.8	42.4	
77	50.6	44.7	67.1	

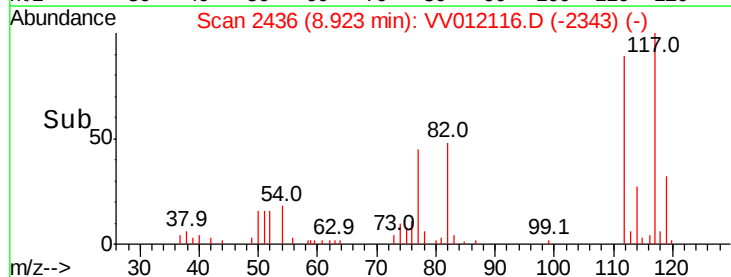
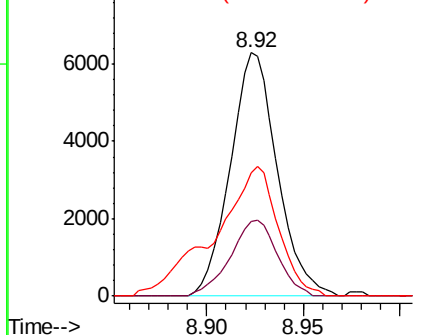


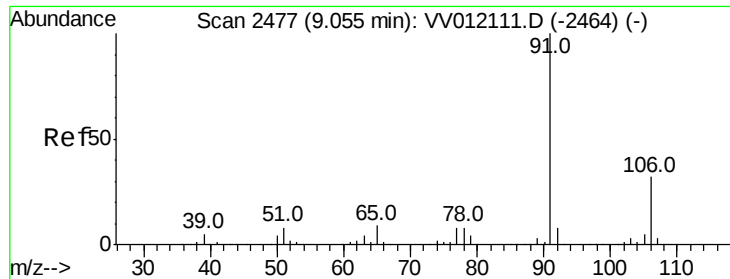
Abundance

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: 2.303 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 16224

Ion Ratio Lower Upper

91 100

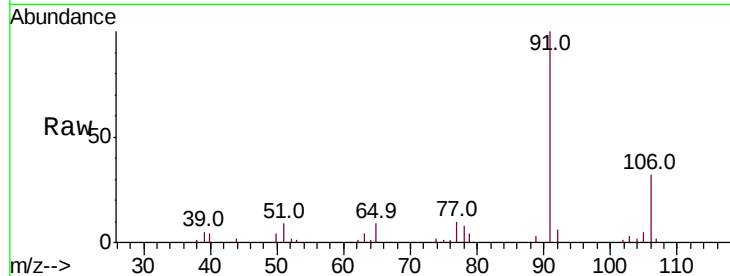
106 31.8 22.3 41.5

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VV012116.D (-2464) (-)

Ion 106.00 (105.70 to 106.70): VV012116.D (-2464) (-)

9.06

12000

10000

8000

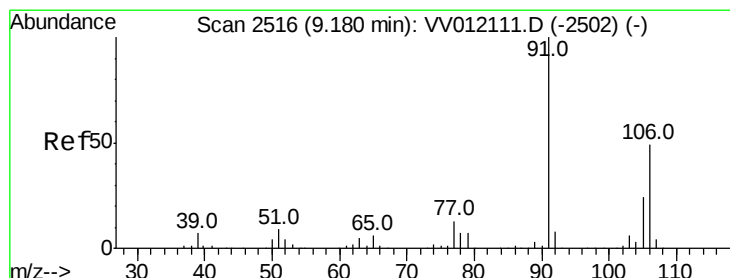
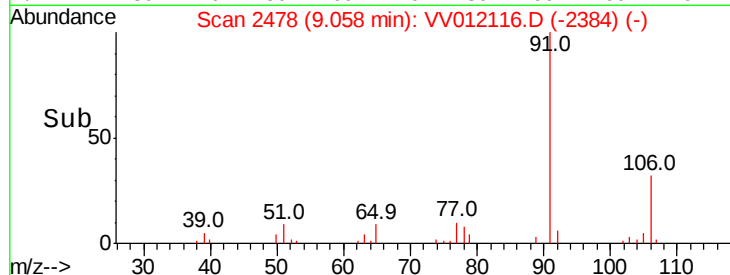
6000

4000

2000

0

Time-->



#53

m,p-Xylene

Concen: 2.343 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012116.D

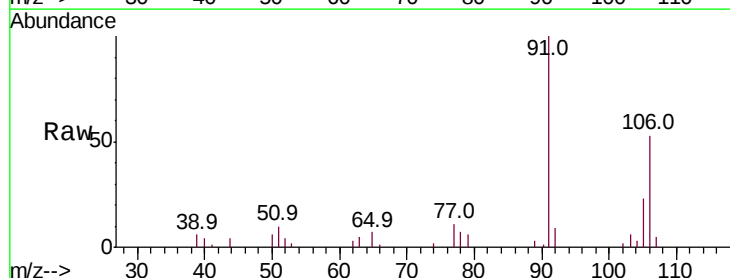
Acq: 06 Aug 2019 15:56

Tgt Ion: 106 Resp: 6369

Ion Ratio Lower Upper

106 100

91 187.4 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): VV012116.D (-2502) (-)

Ion 91.00 (90.70 to 91.70): VV012116.D (-2502) (-)

9.18

8000

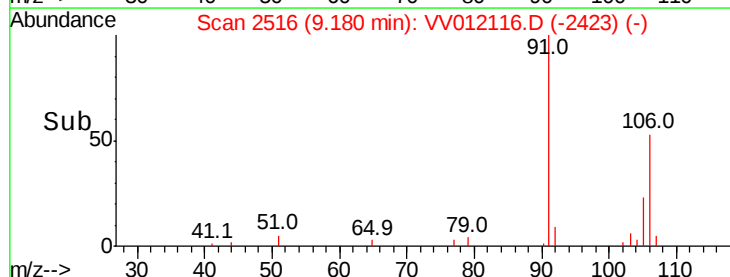
6000

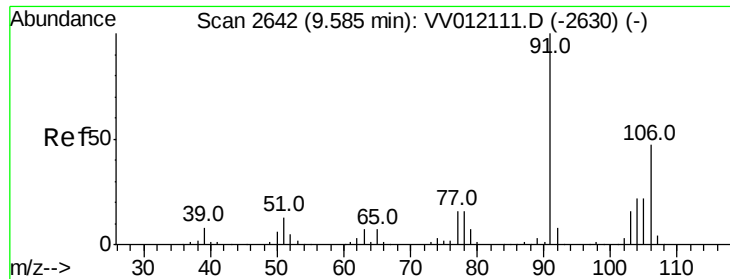
4000

2000

0

Time-->





#54

o-Xylene

Concen: 2.205 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion:106 Resp: 5947

Ion Ratio Lower Upper

106 100

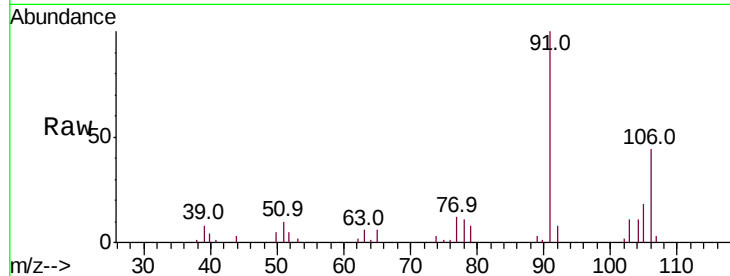
91 228.4 150.4 279.2

Manual Integrations

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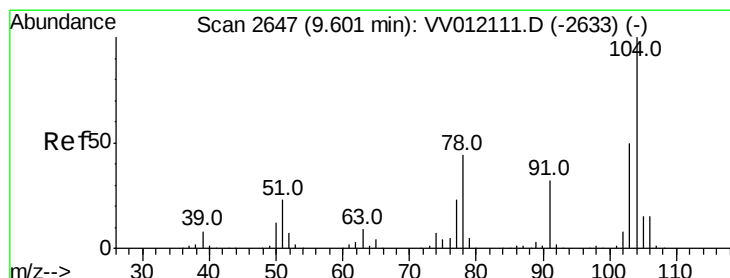
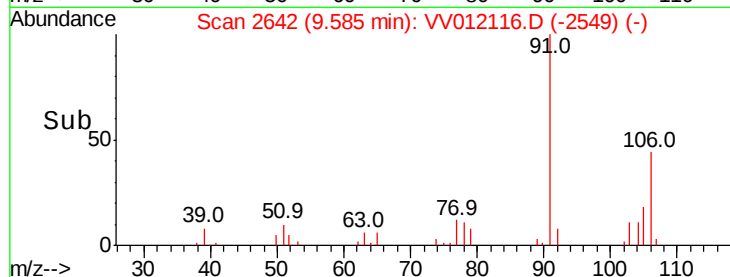
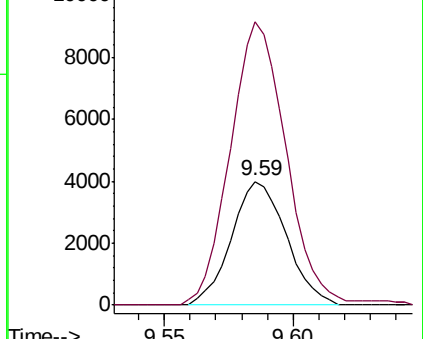
MMDadoda

8/7/2019 9:10:56 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 2.171 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012116.D

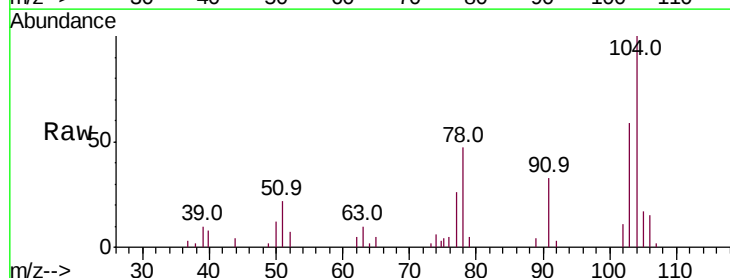
Acq: 06 Aug 2019 15:56

Tgt Ion:104 Resp: 9864

Ion Ratio Lower Upper

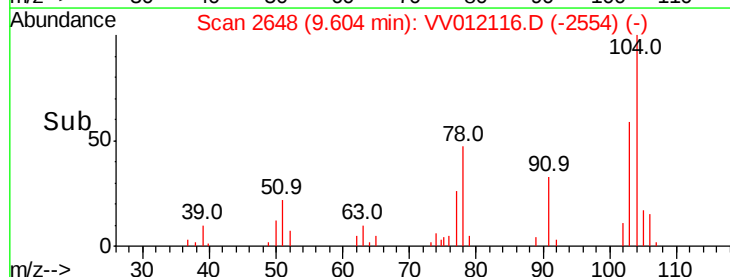
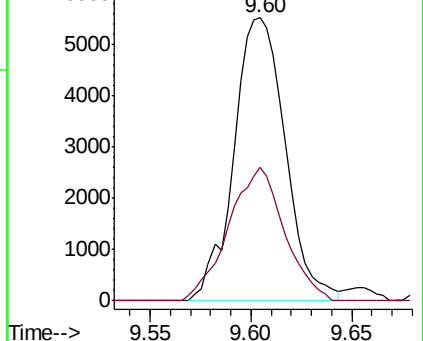
104 100

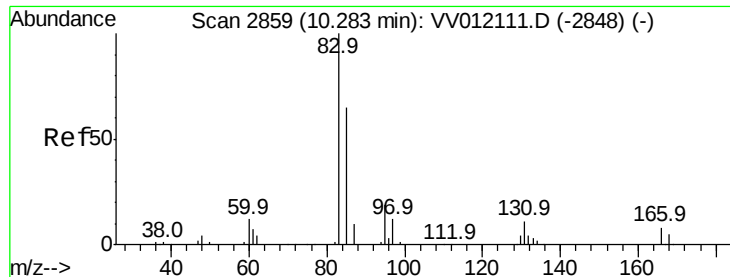
78 47.1 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





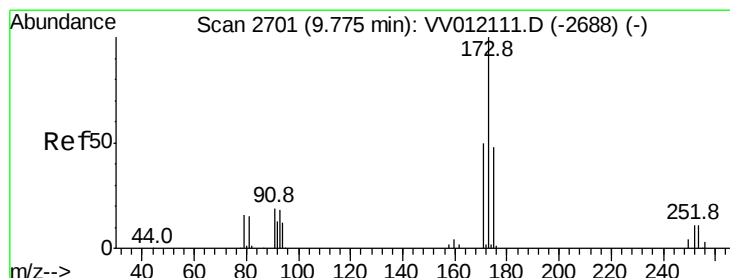
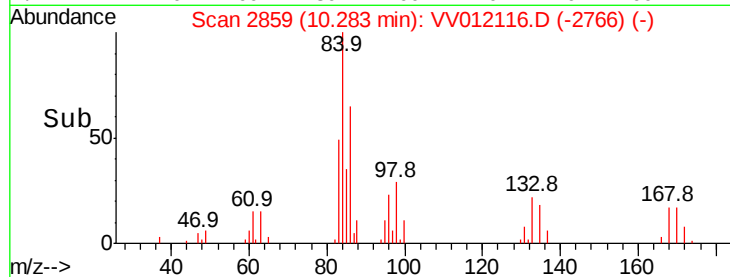
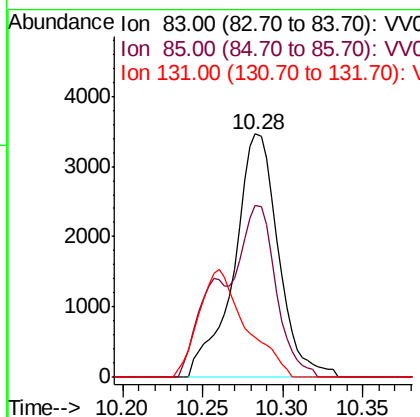
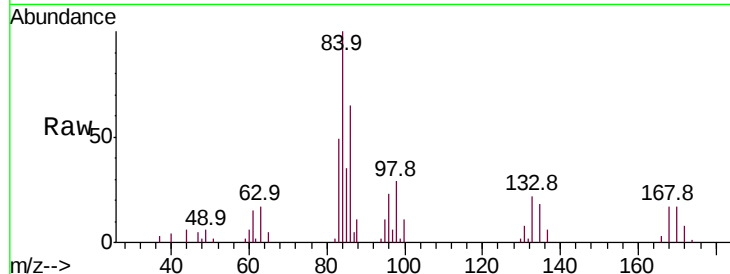
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.868 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. -0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
83	100		
85	70.7	44.6	82.8
131	16.4	9.3	13.9#

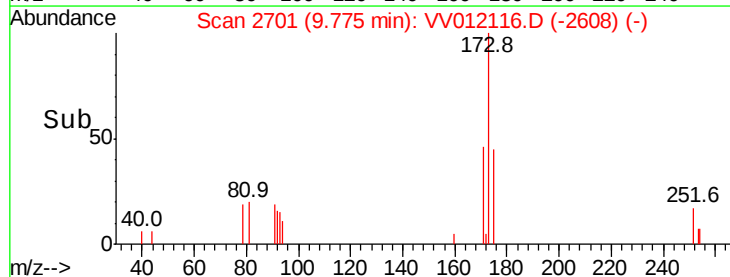
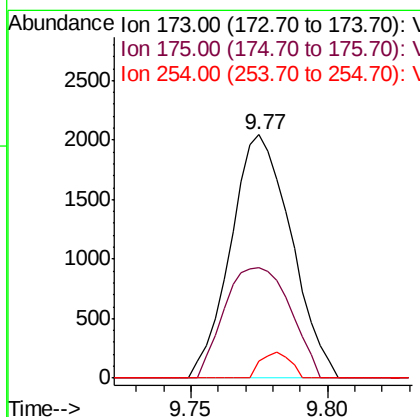
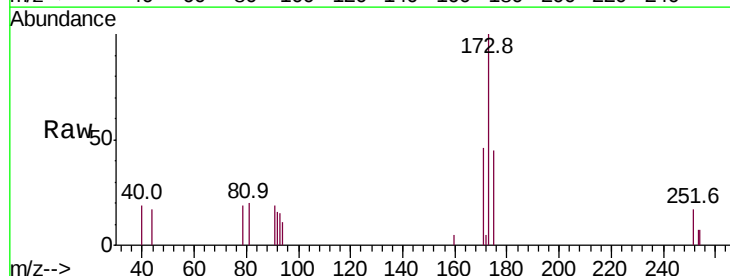
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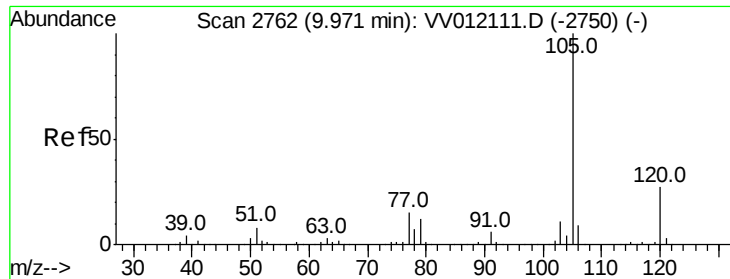
MMDadoda
 8/7/2019 9:10:56 AM



#59
 Bromoform
 Concen: 2.169 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.7	38.3	57.5
254	5.1	8.9	13.3#





#60

Isopropylbenzene

Concen: 2.485 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

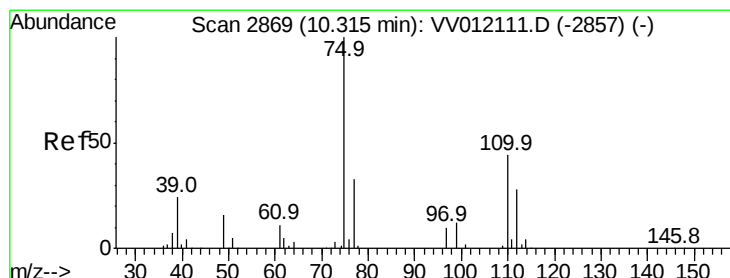
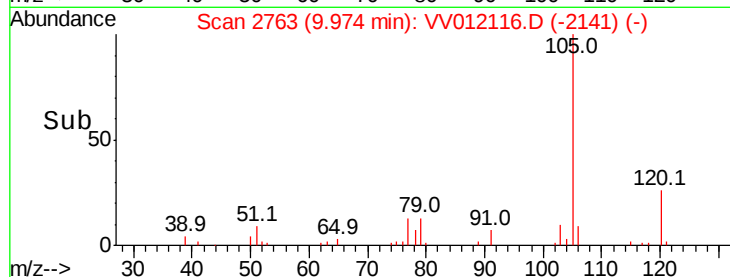
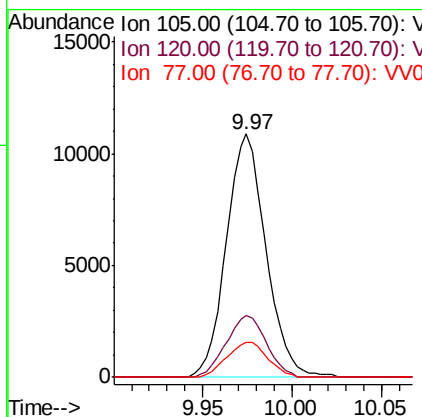
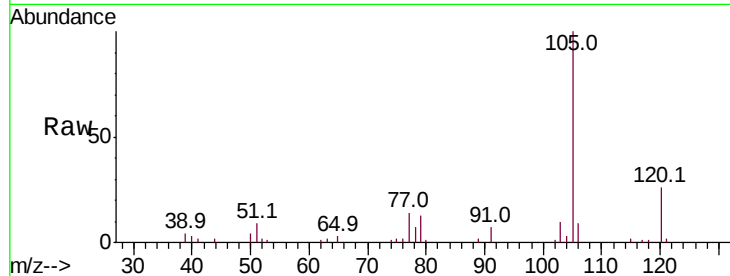
ClientSampleId :

MDL01

Tot Ion:	105	Resp:	16827
Ion Ratio	Lower	Upper	
105	100		
120	25.6	21.4	32.0
77	14.8	11.6	17.4

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#61

1,2,3-Trichloropropane

Concen: 2.619 ug/L

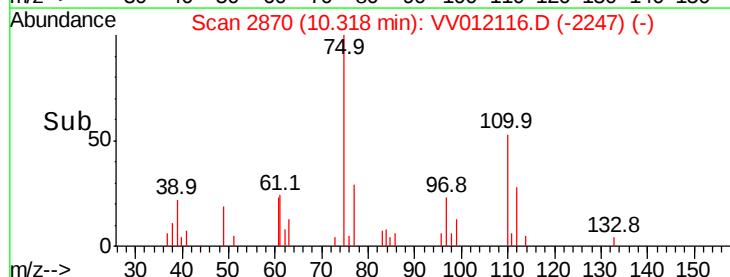
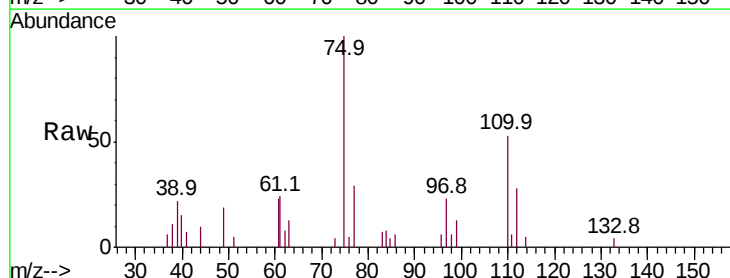
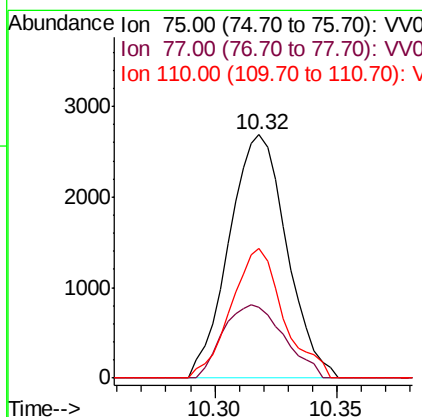
RT: 10.32 min Scan# 2870

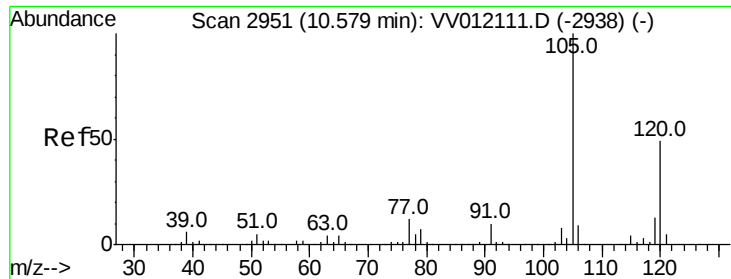
Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Tgt Ion:	75	Resp:	4398
Ion Ratio	Lower	Upper	
75	100		
77	31.8	25.7	38.5
110	48.3	34.2	51.4





#62

1,3,5-Trimethylbenzene

Concen: 2.267 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. -0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion:105 Resp: 13269

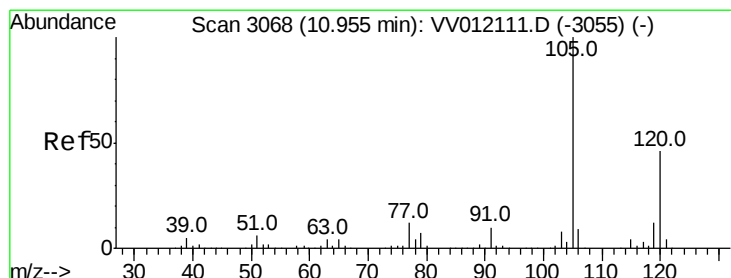
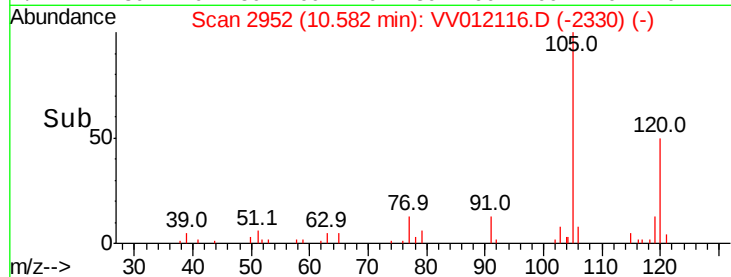
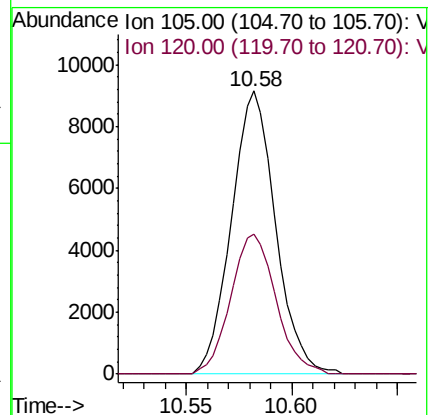
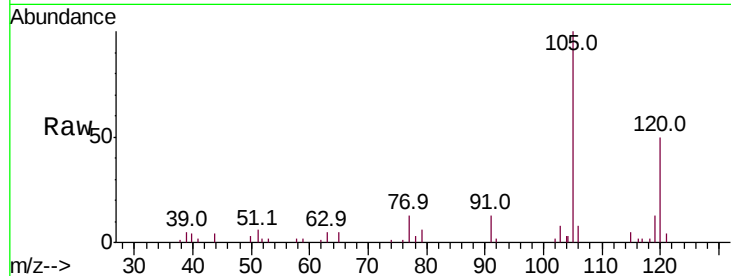
Ion Ratio Lower Upper

105 100

120 50.7 39.2 58.8

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#63

1,2,4-Trimethylbenzene

Concen: 2.431 ug/L

RT: 10.96 min Scan# 3069

Delta R.T. 0.00 min

Lab File: VV012116.D

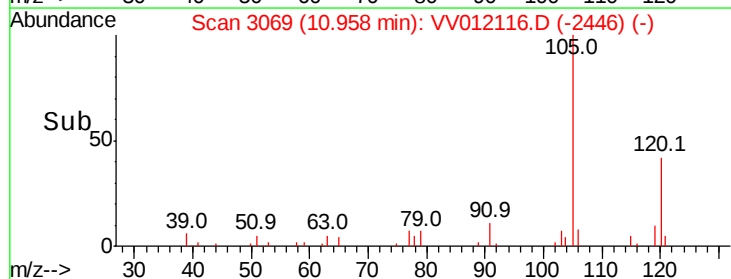
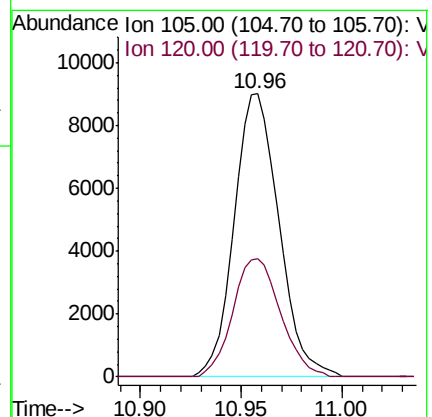
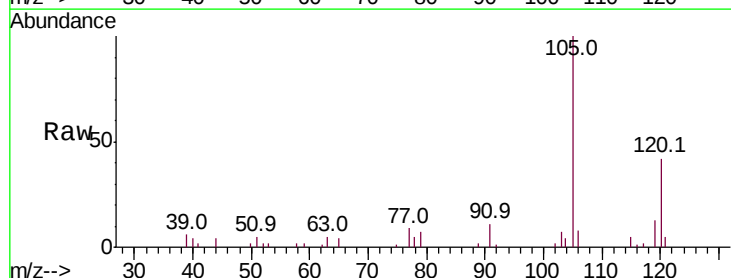
Acq: 06 Aug 2019 15:56

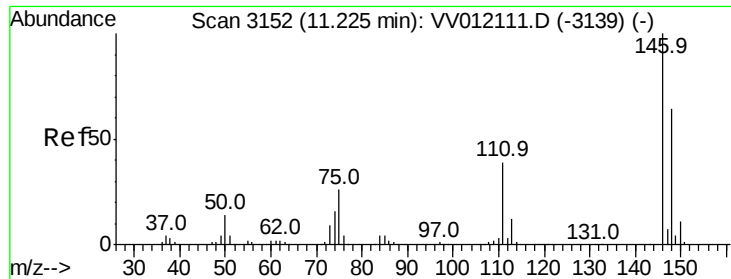
Tgt Ion:105 Resp: 14045

Ion Ratio Lower Upper

105 100

120 44.4 36.7 55.1





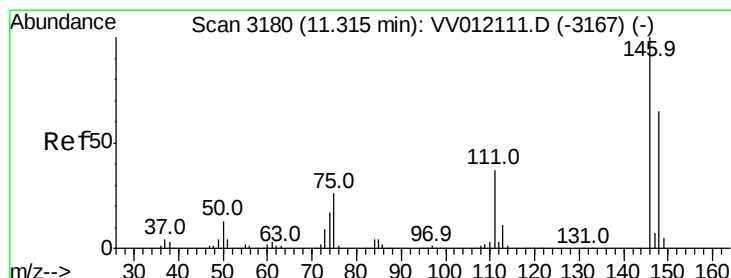
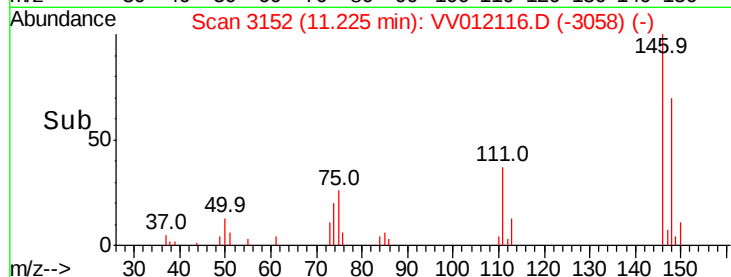
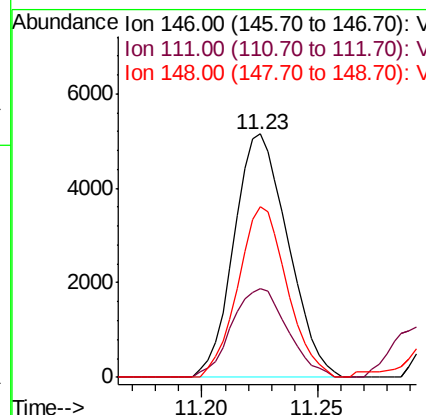
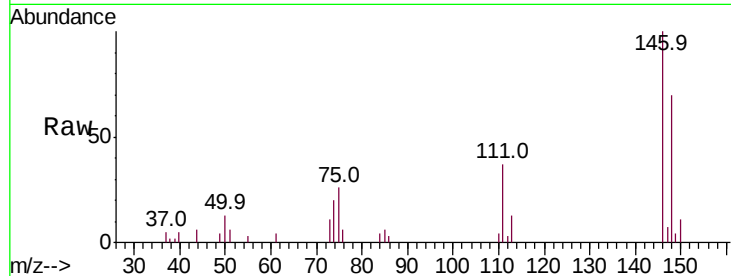
#64
 1,3-Dichlorobenzene
 Concen: 2.438 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.6	26.8	49.8
148	70.3	44.6	82.8

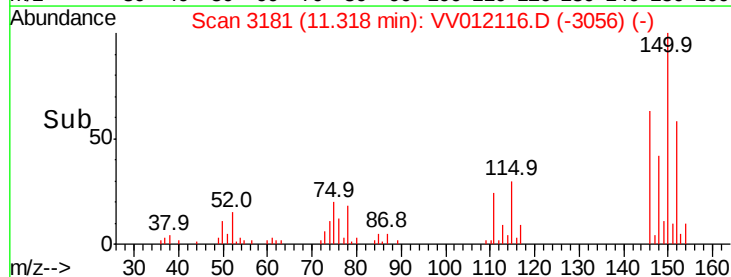
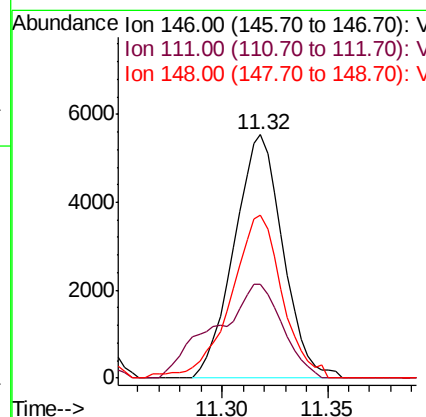
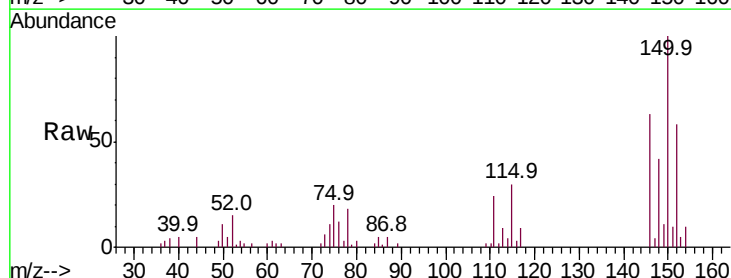
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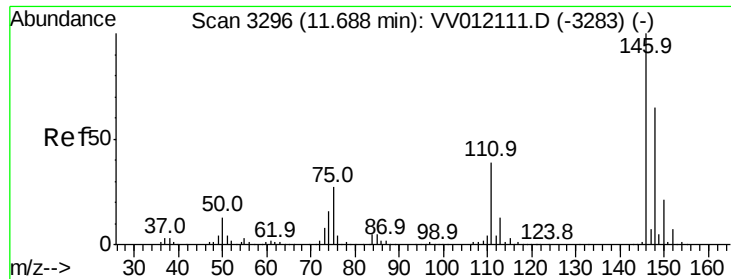
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#65
 1,4-Dichlorobenzene
 Concen: 2.576 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.5	25.8	47.8
148	66.9	45.2	84.0





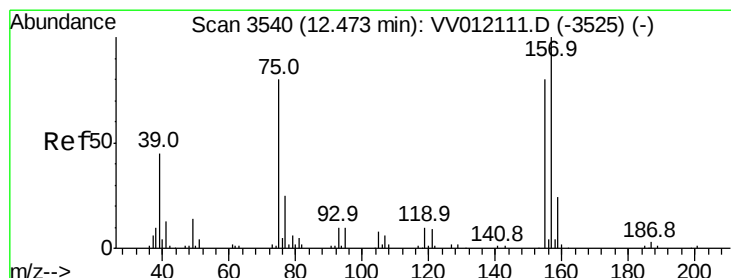
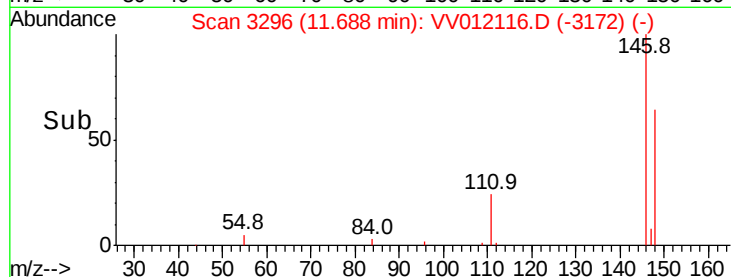
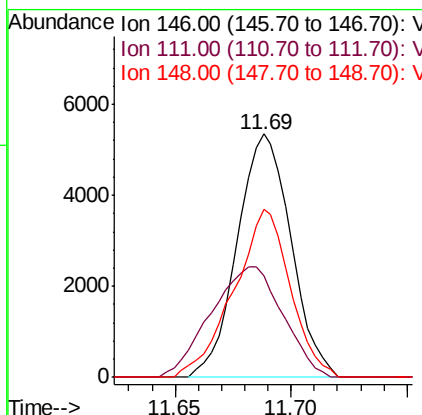
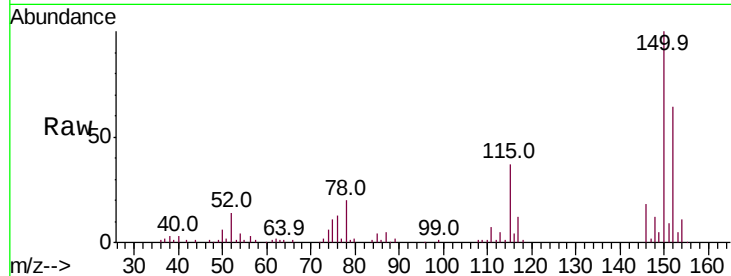
#67
 1,2-Dichlorobenzene
 Concen: 2.469 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.6	32.2	48.2
148	69.0	53.2	79.8

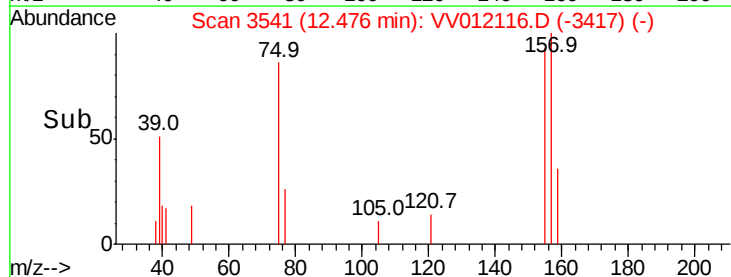
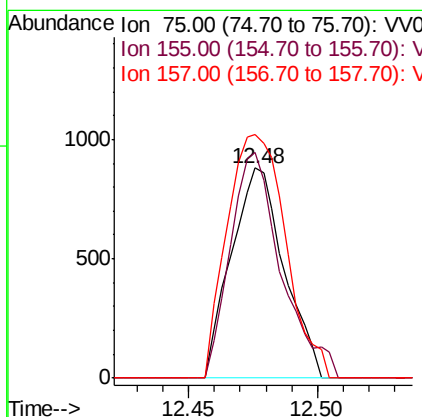
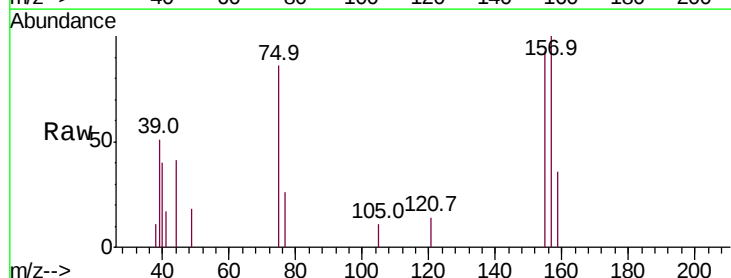
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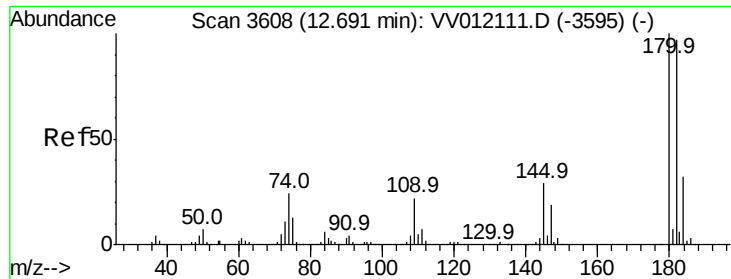
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.275 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	107.7	81.2	121.8
157	116.0	102.3	153.5





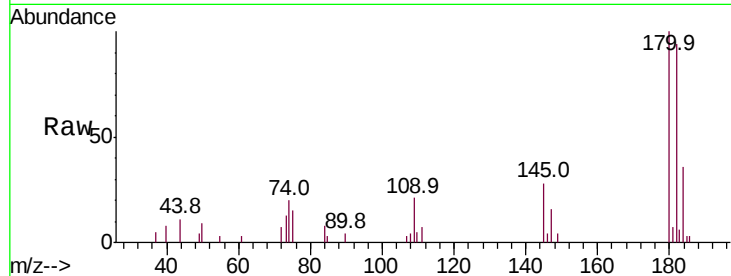
#69
 1,3,5-Trichlorobenzene
 Concen: 2.286 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.5	114.7
184	34.7	24.6	36.8
145	29.4	22.5	33.7

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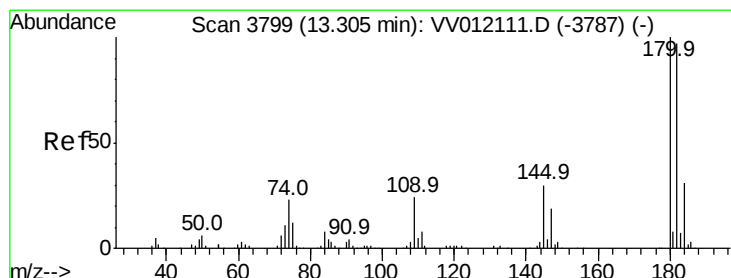
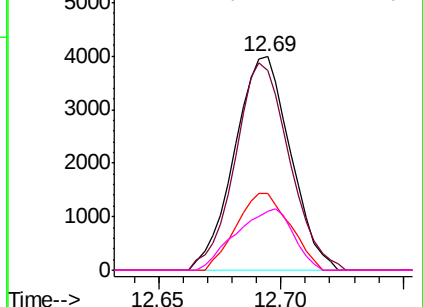
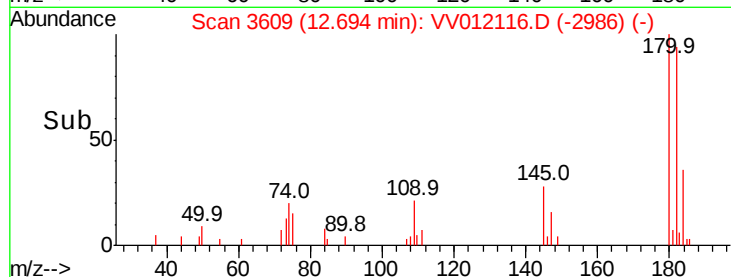
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

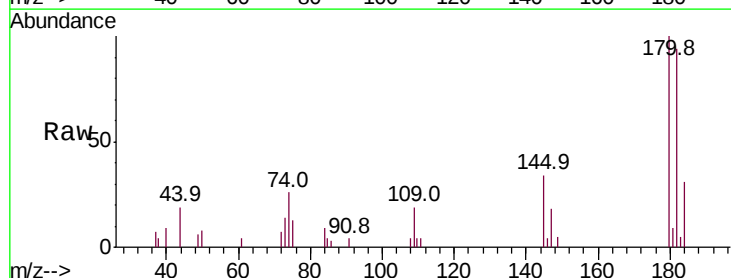
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 1.970 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.01 min
 Lab File: VV012116.D
 Acq: 06 Aug 2019 15:56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.2	76.5	114.7
145	26.3	23.3	34.9

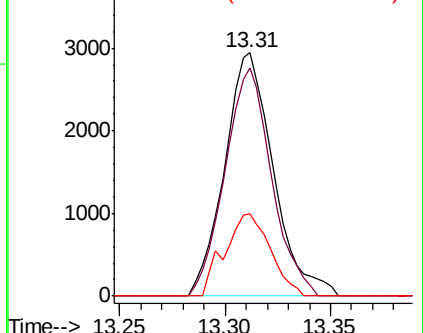
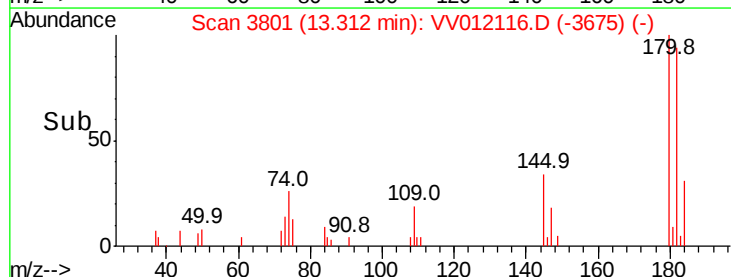


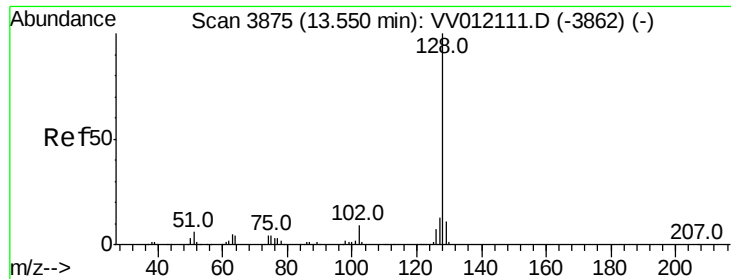
Abundance

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: 1.549 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.01 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Instrument :

MSVOA_V

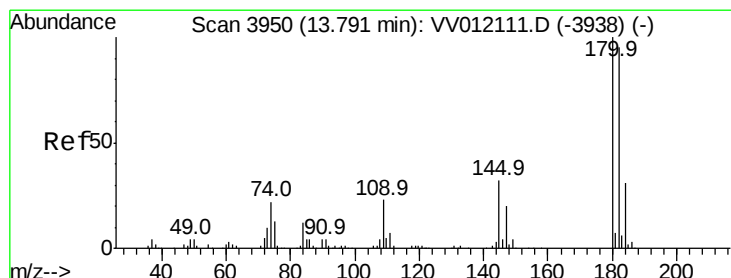
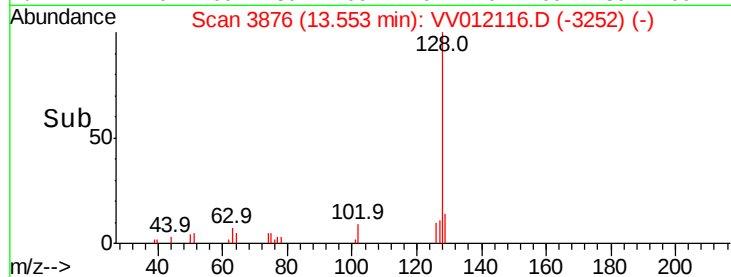
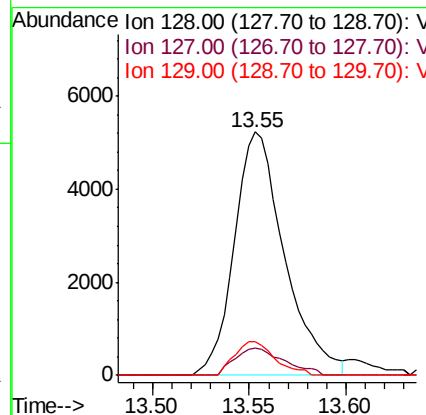
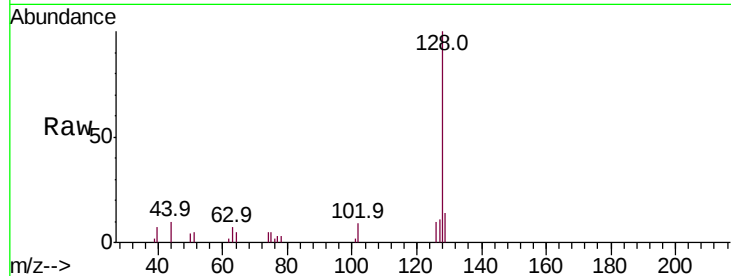
ClientSampleId :

MDL01

Tot Ion:	128	Resp:	9425
Ion	Ratio	Lower	Upper
128	100		
127	11.0	10.6	15.8
129	11.1	8.6	12.8

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#72

1,2,3-Trichlorobenzene

Concen: 1.992 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV012116.D

Acq: 06 Aug 2019 15:56

Tgt Ion:	180	Resp:	4812
Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.2	115.8
145	33.5	24.6	36.8

