

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072919\
 Data File : VV012064.D
 Acq On : 29 Jul 2019 15:59
 Operator : SY/MD
 Sample : MDL02
 Misc : 25ML/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 7/30/2019 10:58:20 AM

Quant Time: Jul 30 08:59:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jul 30 08:46:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	140875	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	134974	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	67855	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	40082	5.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	100.60%
7) Chloroethane-d5	1.59	69	29411	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.20%
11) 1,1-Dichloroethene-d2	2.13	63	59860	4.14	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.80%
20) 2-Butanone-d5	3.97	46	99490	54.94	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.88%
24) Chloroform-d	4.40	84	88970	5.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.20%
26) 1,2-Dichloroethane-d4	5.08	65	51392	5.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.20%
32) Benzene-d6	5.10	84	191166	5.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.40%
36) 1,2-Dichloropropane-d6	6.12	67	53773	5.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.20%
41) Toluene-d8	7.36	98	174717	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
43) trans-1,3-Dichloropropene-	7.67	79	21517	5.18	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.60%
46) 2-Hexanone-d5	8.14	63	78615	53.47	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.94%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	37742	5.29	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.80%
66) 1,2-Dichlorobenzene-d4	11.67	152	69543	5.75	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	115.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	4099	0.255 ug/L	98
3) Chloromethane	1.25	50	2640	0.287 ug/L	95
5) Vinyl chloride	1.32	62	2390	0.254 ug/L #	46
6) Bromomethane	1.54	94	1326	0.236 ug/L	98
8) Chloroethane	1.60	64	1390	0.272 ug/L	95
9) Trichlorofluoromethane	1.77	101	3798	0.236 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2180	0.312 ug/L #	85
12) 1,1-Dichloroethene	2.15	96	2082	0.322 ug/L #	1
13) Acetone	2.22	43	2977m	2.987 ug/L	
14) Carbon disulfide	2.32	76	4733	0.262 ug/L #	87
15) Methyl Acetate	2.47	43	540m	0.264 ug/L	
16) Methylene chloride	2.53	84	2151	0.324 ug/L	92
17) Methyl tert-butyl Ether	2.81	73	5057	0.249 ug/L	97
18) trans-1,2-Dichloroethene	2.79	96	2732	0.293 ug/L	88
19) 1,1-Dichloroethane	3.23	63	3973	0.238 ug/L	95
21) 2-Butanone	4.07	43	5882m	2.992 ug/L	
22) cis-1,2-Dichloroethene	3.97	96	2629m	0.265 ug/L	

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Manual Integrations
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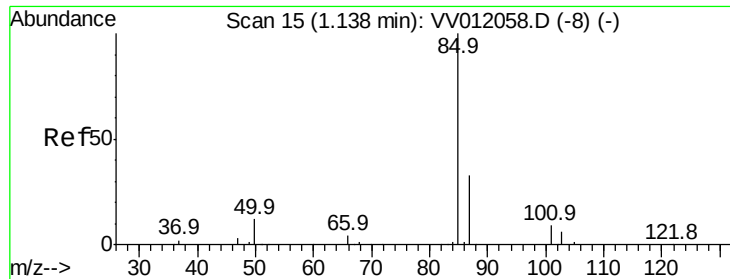
MMDadoda
 7/30/2019 10:58:20 AM

Quant Time: Jul 30 08:59:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	1114m	0.256	ug/L	
25) Chloroform	4.43	83	14463	0.692	ug/L	95
27) 1,2-Dichloroethane	5.19	62	3282	0.284	ug/L	97
29) 1,1,1-Trichloroethane	4.66	97	4383	0.263	ug/L	96
30) Cyclohexane	4.72	56	3870	0.271	ug/L	89
31) Carbon tetrachloride	4.87	117	3486	0.232	ug/L	99
33) Benzene	5.15	78	9710	0.265	ug/L	100
34) Trichloroethene	5.96	95	2672	0.256	ug/L	93
35) Methylcyclohexane	6.17	83	4232	0.258	ug/L	92
37) 1,2-Dichloropropane	6.22	63	2311	0.272	ug/L #	86
38) Bromodichloromethane	6.56	83	3198	0.267	ug/L	89
39) cis-1,3-Dichloropropene	7.07	75	3546	0.267	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	10813	2.260	ug/L #	85
42) Toluene	7.43	91	10071	0.247	ug/L	99
44) trans-1,3-Dichloropropene	7.70	75	2511	0.234	ug/L	88
45) 1,1,2-Trichloroethane	7.89	97	1779	0.275	ug/L	85
47) Tetrachloroethene	8.02	164	2801	0.307	ug/L	85
48) 2-Hexanone	8.19	43	9540	2.821	ug/L	95
49) Dibromochloromethane	8.29	129	1934	0.244	ug/L	87
50) 1,2-Dibromoethane	8.40	107	1610	0.266	ug/L #	97
51) Chlorobenzene	8.93	112	6930	0.254	ug/L	96
52) Ethylbenzene	9.05	91	11468	0.247	ug/L	96
53) m,p-xylene	9.18	106	4345	0.245	ug/L	96
54) o-xylene	9.59	106	3963	0.236	ug/L	93
55) Styrene	9.60	104	5648	0.200	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.29	83	1940	0.279	ug/L #	97
59) Bromoform	9.77	173	1048	0.255	ug/L #	94
60) Isopropylbenzene	9.97	105	10610	0.245	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	1186	0.240	ug/L #	89
62) 1,3,5-Trimethylbenzene	10.58	105	7771	0.217	ug/L	94
63) 1,2,4-Trimethylbenzene	10.96	105	7780	0.219	ug/L	99
64) 1,3-Dichlorobenzene	11.23	146	5911	0.274	ug/L	97
65) 1,4-Dichlorobenzene	11.32	146	6084	0.276	ug/L	95
67) 1,2-Dichlorobenzene	11.69	146	5576	0.284	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.48	75	239	0.234	ug/L	86
69) 1,3,5-Trichlorobenzene	12.69	180	5078	0.284	ug/L	88
70) 1,2,4-trichlorobenzene	13.31	180	3903	0.276	ug/L #	89
71) Naphthalene	13.56	128	4899	0.250	ug/L	96
72) 1,2,3-Trichlorobenzene	13.80	180	3094	0.247	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 0.255 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 85 Resp: 4099

Ion Ratio Lower Upper

85 100

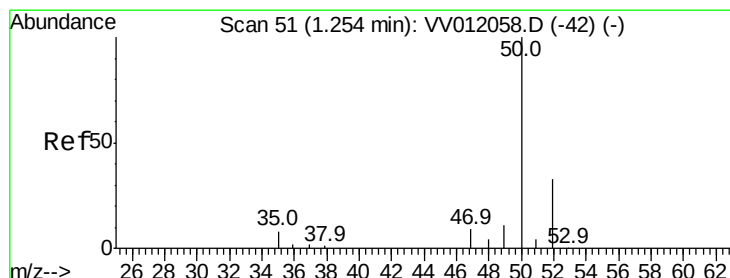
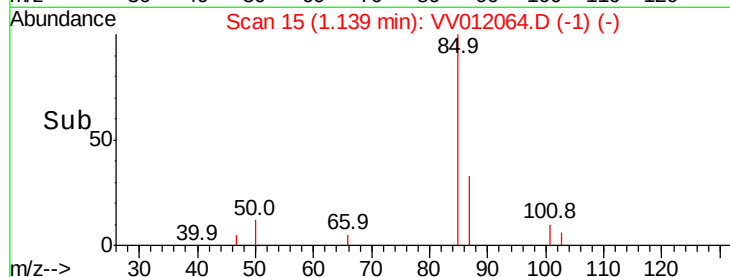
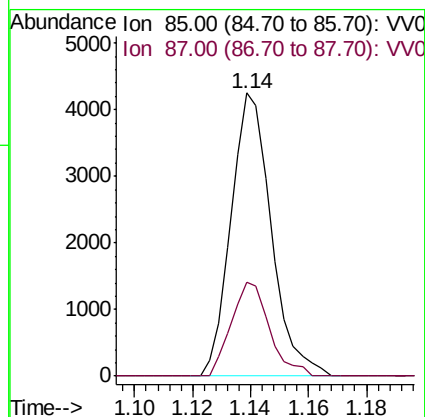
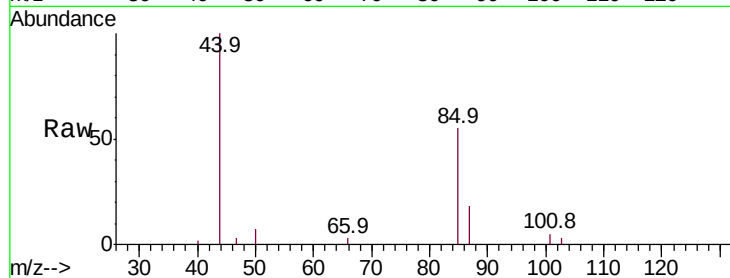
87 31.3 25.9 38.9

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#3

Chloromethane

Concen: 0.287 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012064.D

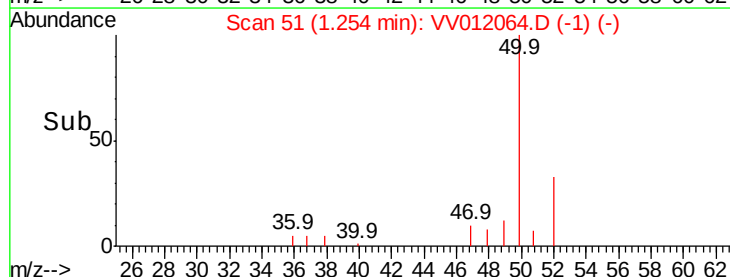
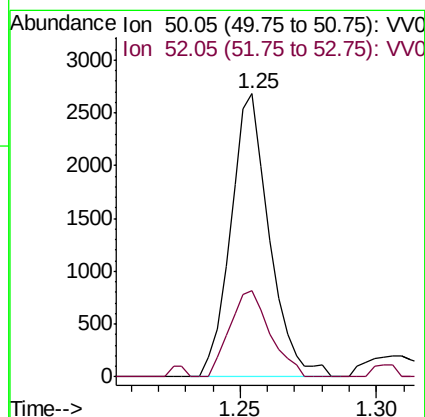
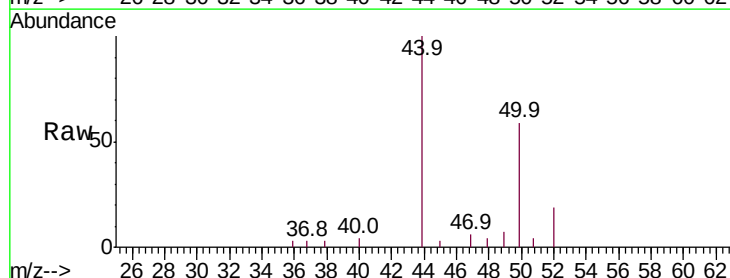
Acq: 29 Jul 2019 15:59

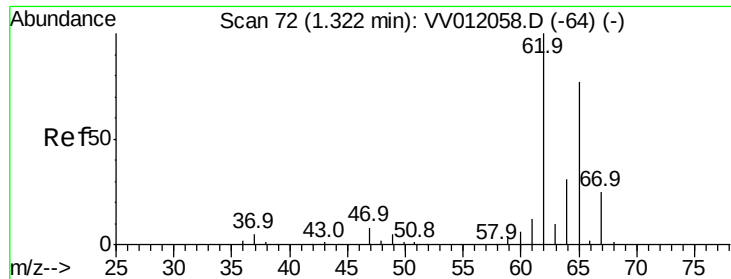
Tgt Ion: 50 Resp: 2640

Ion Ratio Lower Upper

50 100

52 30.5 23.4 43.4





#5

Vinyl chloride

Concen: 0.254 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 62 Resp: 2390

Ion Ratio Lower Upper

62 100

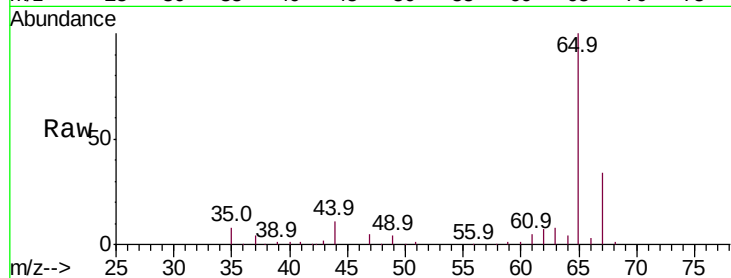
64 61.3 22.0 41.0#

Manual Integrations

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Abundance Ion 62.00 (61.70 to 62.70): VV012058.D (-64) (-)

Ion 64.10 (63.80 to 64.80): VV012064.D (-1) (-)

1.32

2500

2000

1500

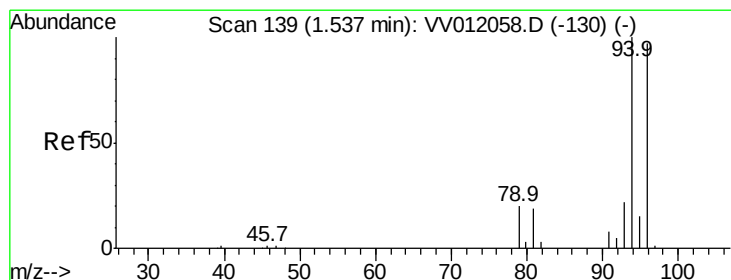
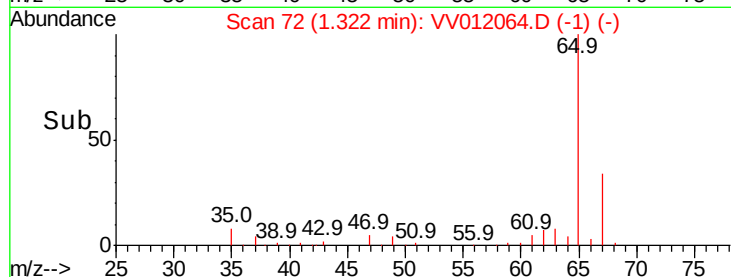
1000

500

0

1.28 1.30 1.32 1.34 1.36

Time-->



#6

Bromomethane

Concen: 0.236 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012064.D

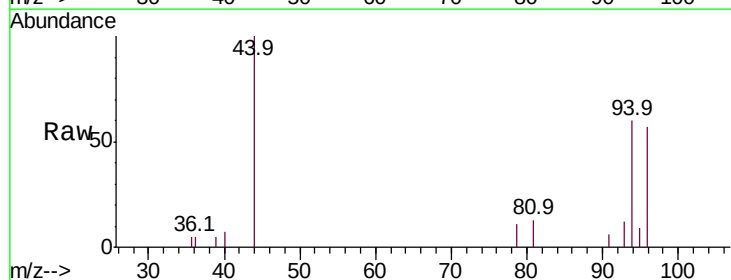
Acq: 29 Jul 2019 15:59

Tgt Ion: 94 Resp: 1326

Ion Ratio Lower Upper

94 100

96 94.4 67.8 125.8



Abundance Ion 94.00 (93.70 to 94.70): VV012058.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV012064.D (-46) (-)

1.54

1500

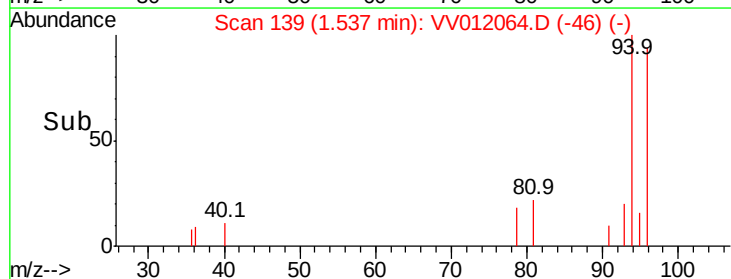
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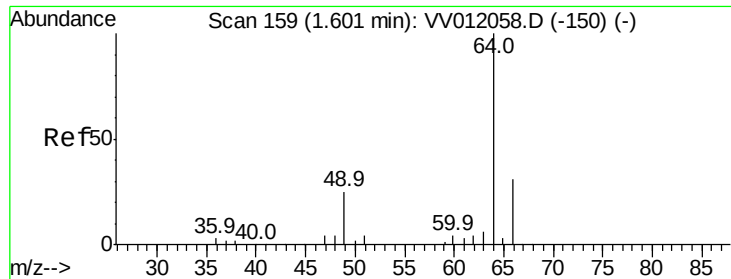
500

0

1.50 1.52 1.54 1.56

Time-->





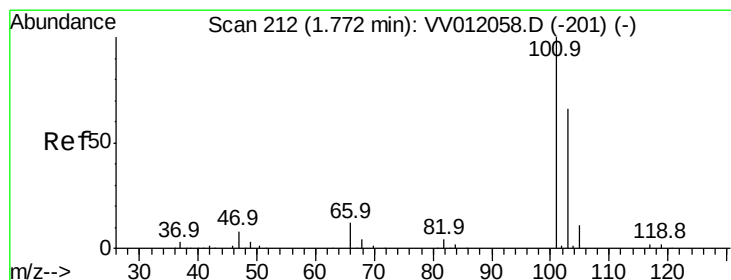
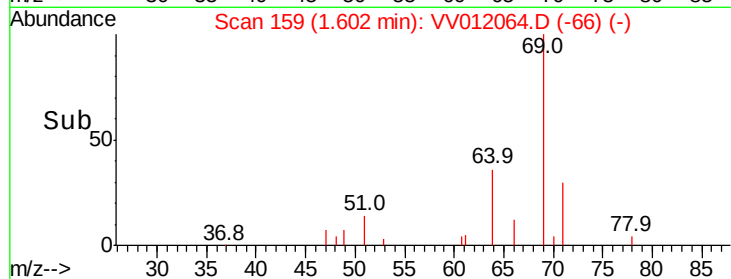
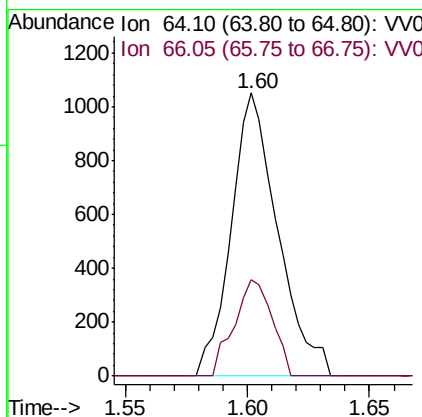
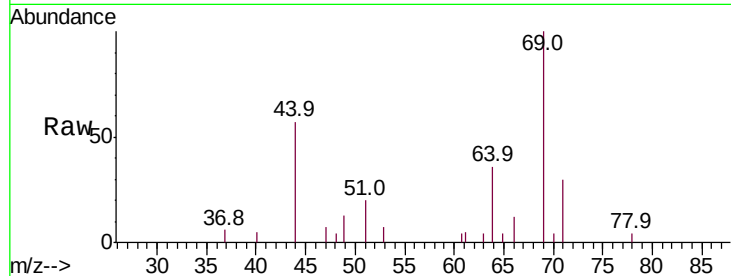
#8
Chloroethane
Concen: 0.272 ug/L
RT: 1.60 min Scan# 159
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampled :
MDL02

Tot Ion: 64 Resp: 1390
Ion Ratio Lower Upper
64 100
66 34.0 21.7 40.3

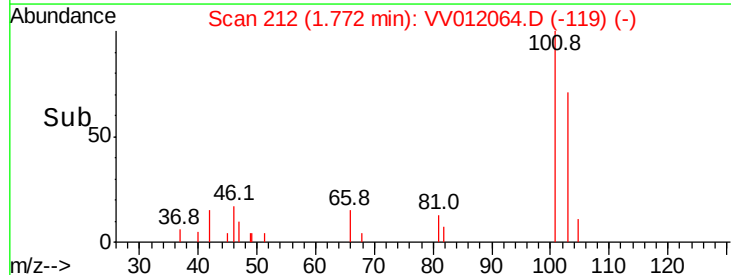
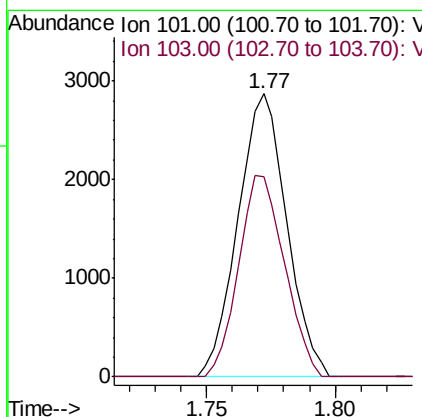
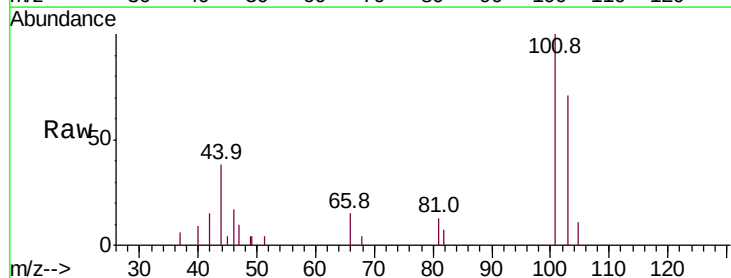
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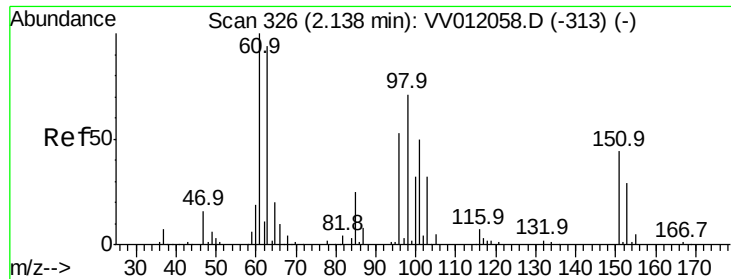
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#9
Trichlorofluoromethane
Concen: 0.236 ug/L
RT: 1.77 min Scan# 212
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion: 101 Resp: 3798
Ion Ratio Lower Upper
101 100
103 66.8 52.6 79.0





#10

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

Concen: 0.312 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Instrument :

MSVOA_V

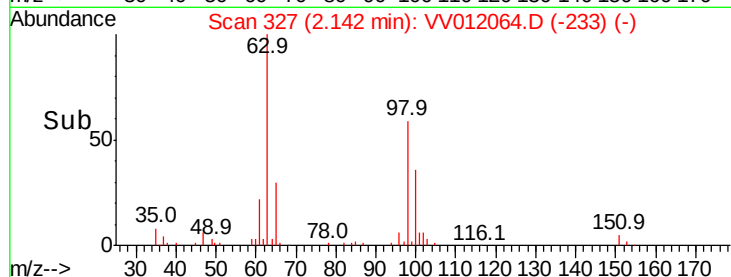
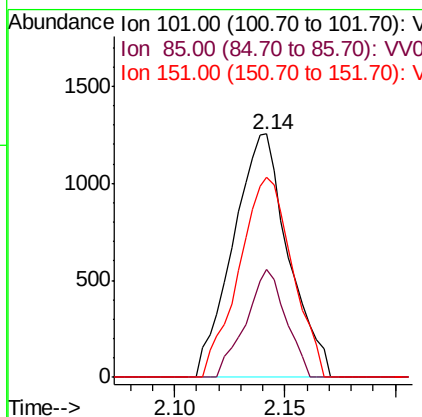
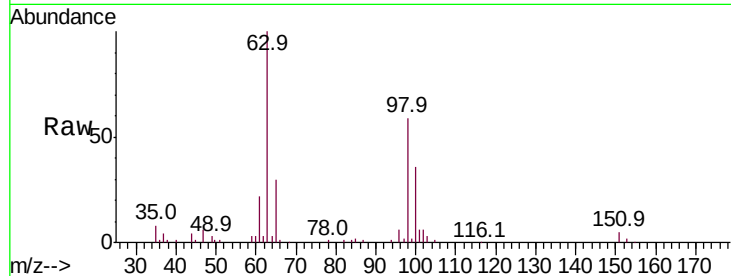
ClientSampleId :

MDL02

Tot Ion: 101 Resp: 2180
 Ion Ratio Lower Upper
 101 100
 85 32.0 37.8 56.8#
 151 78.9 71.4 107.2

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#12

1,1-Dichloroethene

Concen: 0.322 ug/L

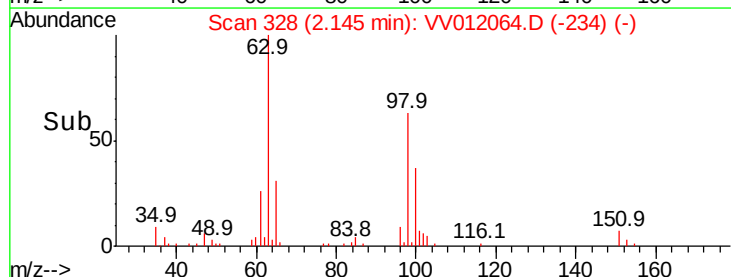
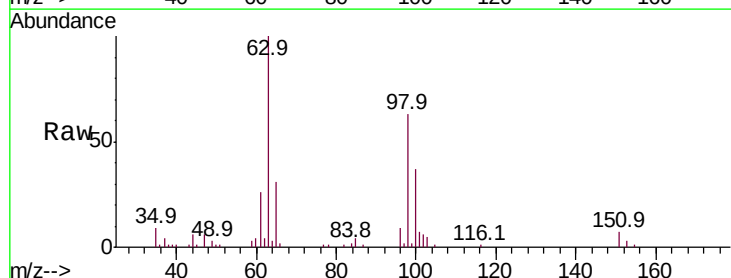
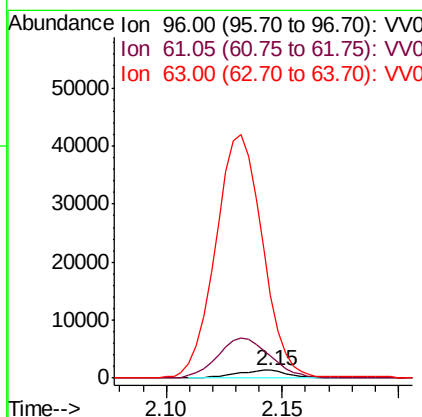
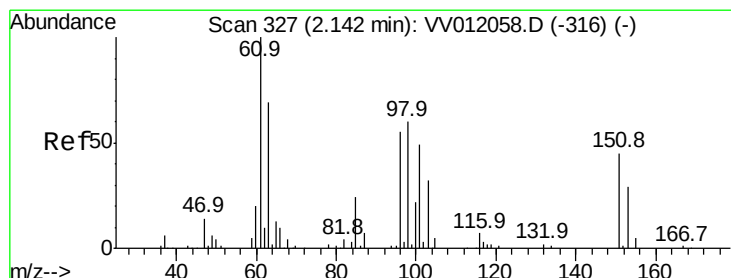
RT: 2.15 min Scan# 328

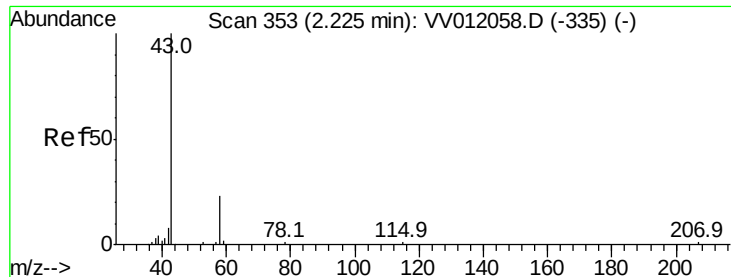
Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Tgt Ion: 96 Resp: 2082
 Ion Ratio Lower Upper
 96 100
 61 279.7 127.8 237.4#
 63 1055.7 92.7 172.3#





#13

Acetone

Concen: 2.987 ug/L m

RT: 2.22 min Scan# 352

Delta R.T. -0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 43 Resp: 2977

Ion Ratio Lower Upper

43 100

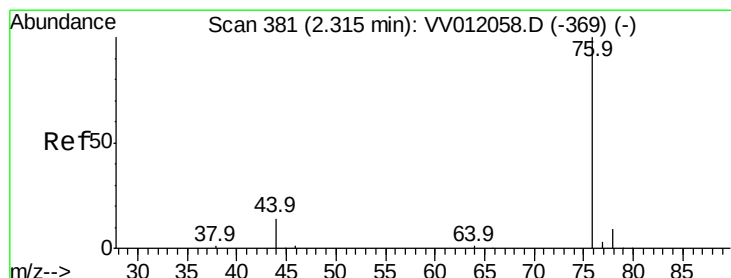
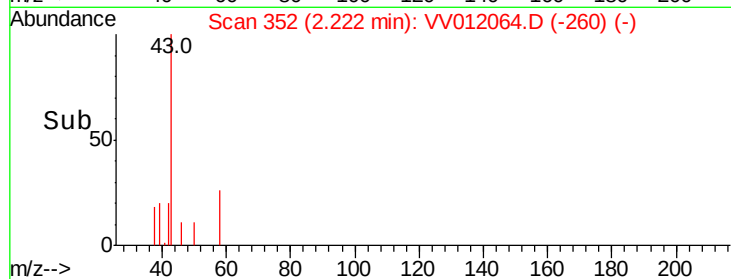
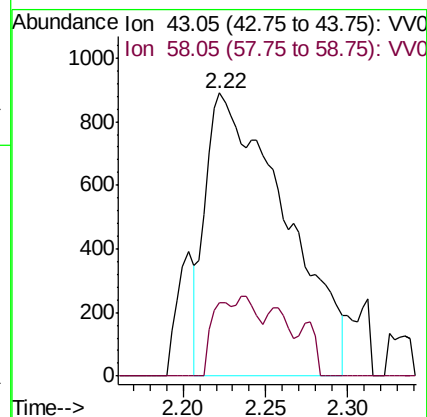
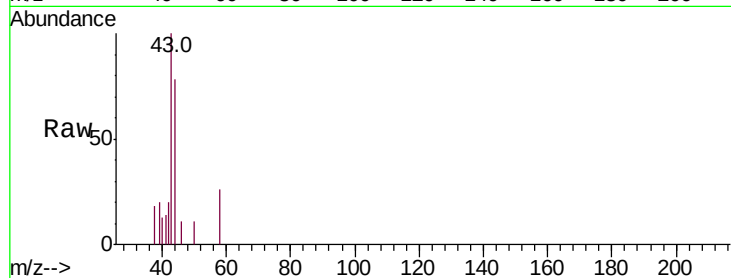
58 6.7 0.0 51.6

Manual Integrations

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#14

Carbon disulfide

Concen: 0.262 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012064.D

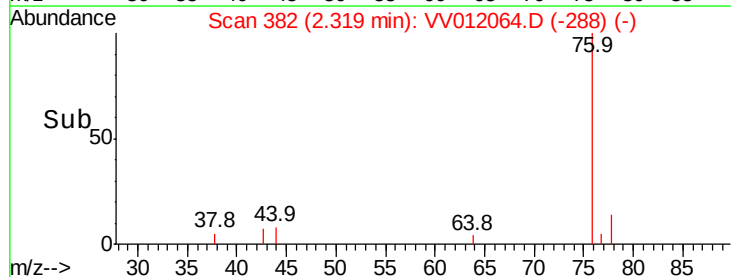
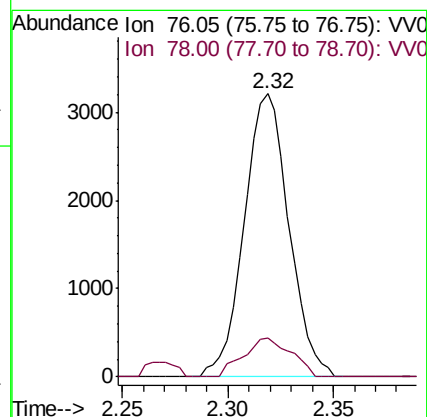
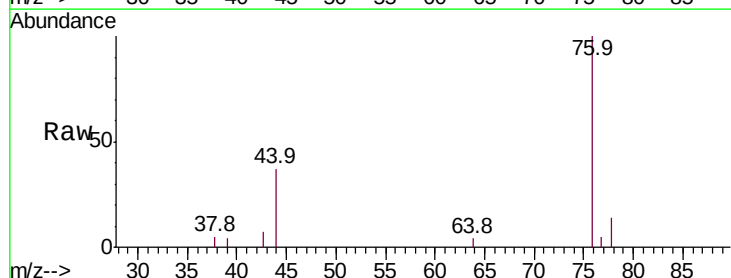
Acq: 29 Jul 2019 15:59

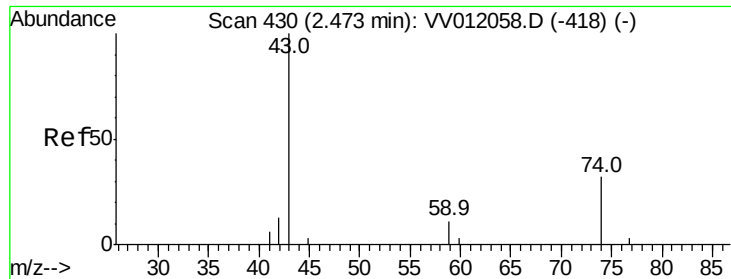
Tgt Ion: 76 Resp: 4733

Ion Ratio Lower Upper

76 100

78 13.8 7.2 10.8#





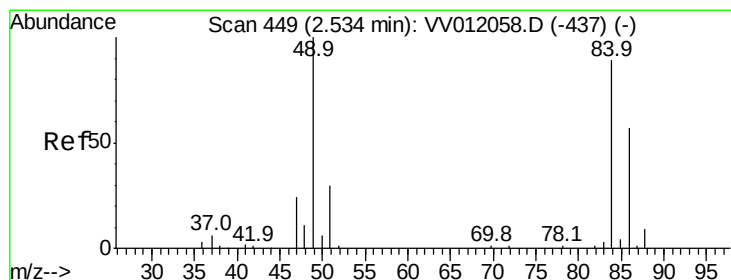
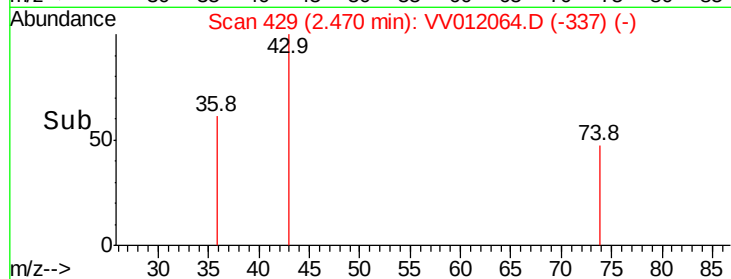
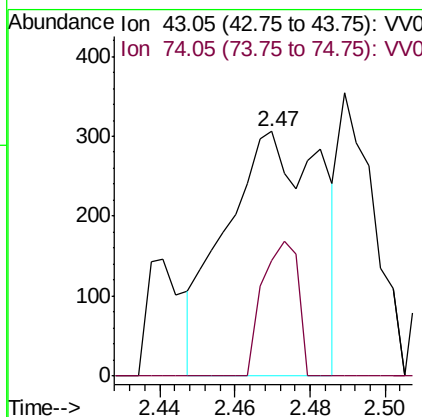
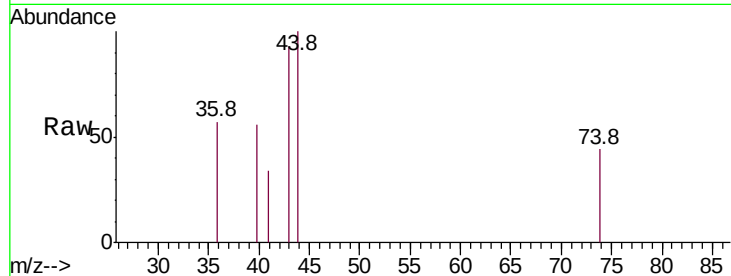
#15
Methvl Acetate
Concen: 0.264 ug/L m
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion: 43 Resp: 540
Ion Ratio Lower Upper
43 100
74 20.7 24.4 36.6#

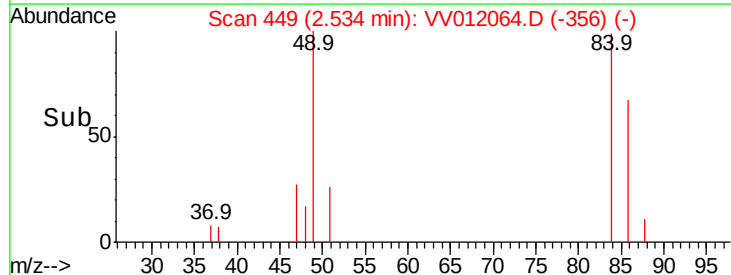
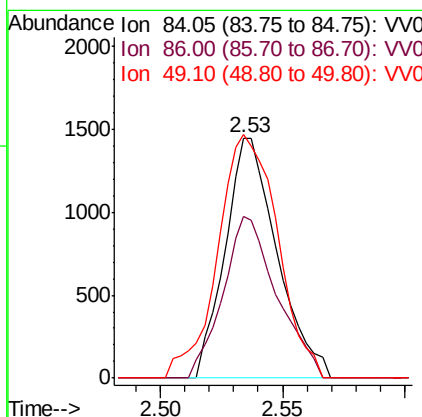
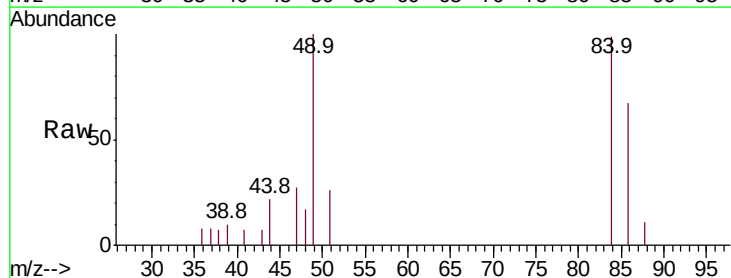
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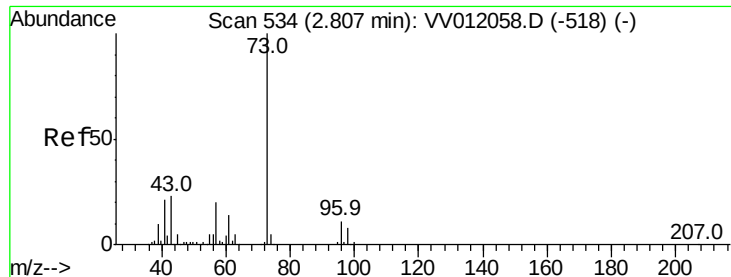
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#16
Methylene chloride
Concen: 0.324 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion: 84 Resp: 2151
Ion Ratio Lower Upper
84 100
86 67.4 44.9 83.3
49 101.3 78.6 146.0





#17

Methyl tert-butyl Ether

Concen: 0.249 ug/L

RT: 2.81 min Scan# 535

Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

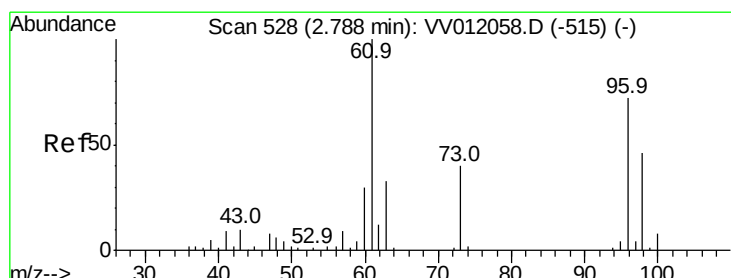
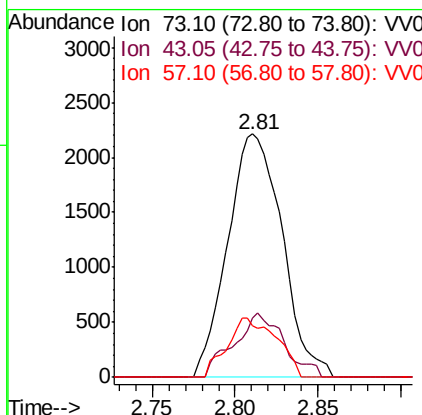
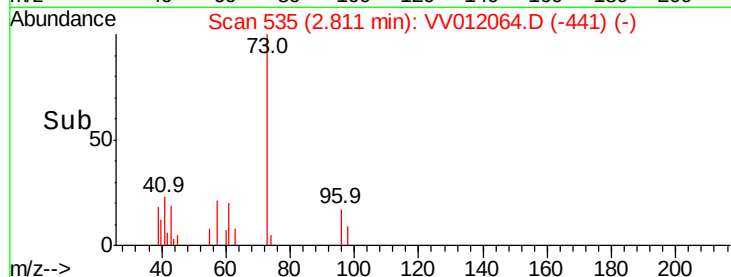
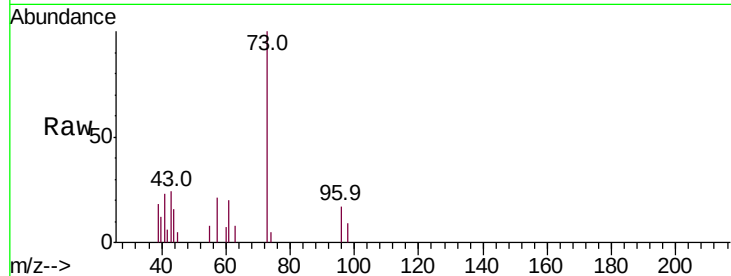
Instrument :
MSVOA_V

ClientSampled :
MDL02

Tot Ion	Ratio	Lower	Upper
73	100		
43	24.2	17.6	26.4
57	22.2	17.0	25.6

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#18

trans-1,2-Dichloroethene

Concen: 0.293 ug/L

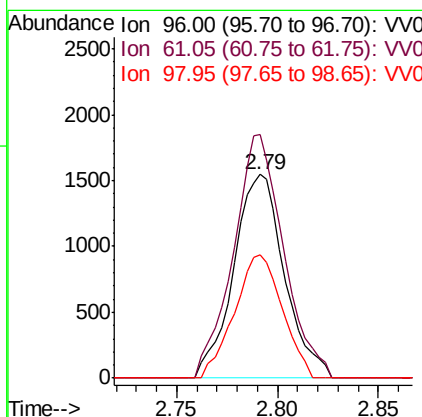
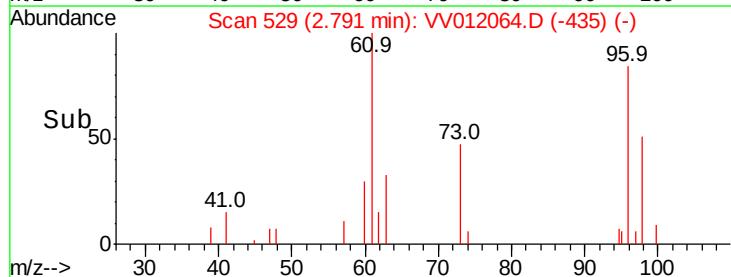
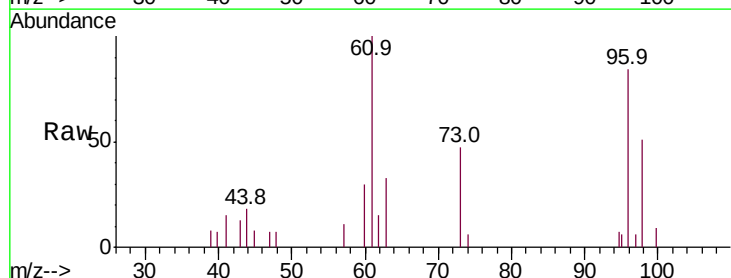
RT: 2.79 min Scan# 529

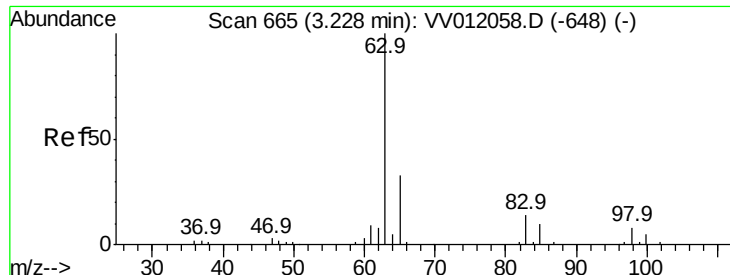
Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	119.4	97.2	180.6
98	60.8	45.0	83.6





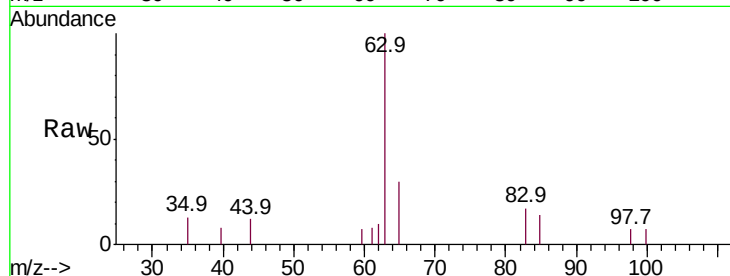
#19
 1,1-Dichloroethane
 Concen: 0.238 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

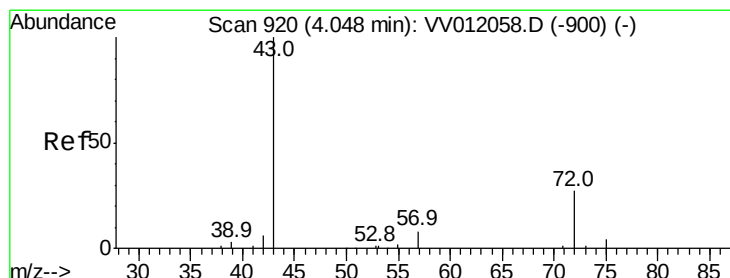
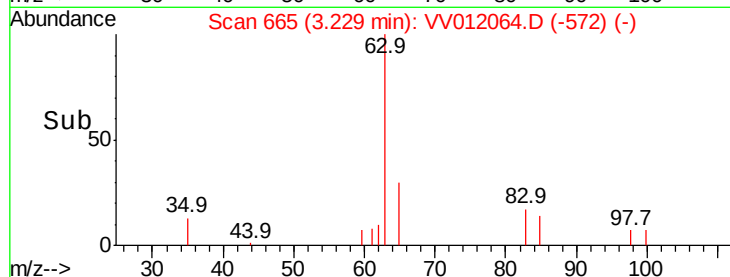
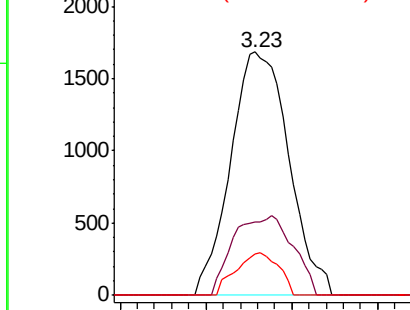
Tot Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.0	42.6
83	17.0	9.7	17.9

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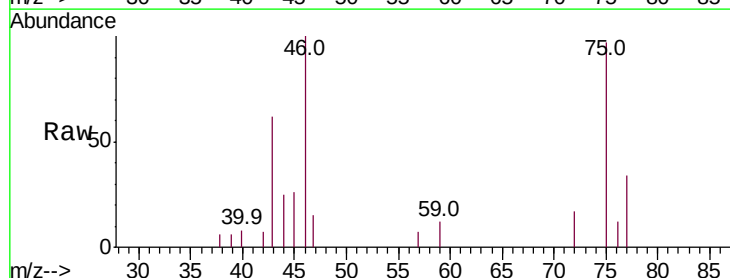


Abundance Ion 63.10 (62.80 to 63.80): VV0
 Ion 65.10 (64.80 to 65.80): VV0
 Ion 83.05 (82.75 to 83.75): VV0

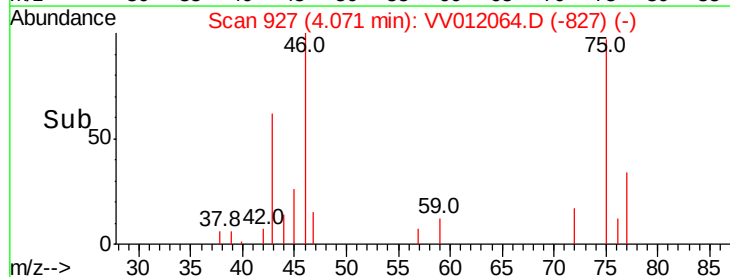
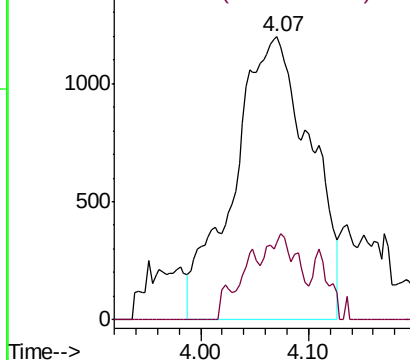


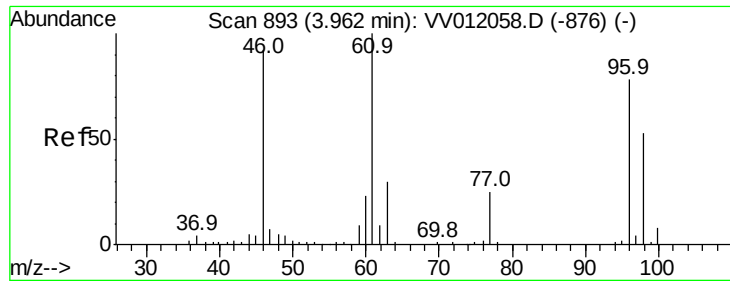
#21
 2-Butanone
 Concen: 2.992 ug/L m
 RT: 4.07 min Scan# 927
 Delta R.T. 0.02 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
43	100		
72	1.7	13.4	40.2#



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 72.10 (71.80 to 72.80): VV0





#22

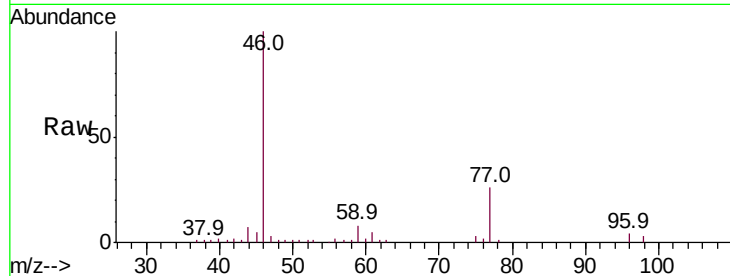
cis-1,2-Dichloroethene
Concen: 0.265 ug/L m
RT: 3.97 min Scan# 896
Delta R.T. 0.01 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

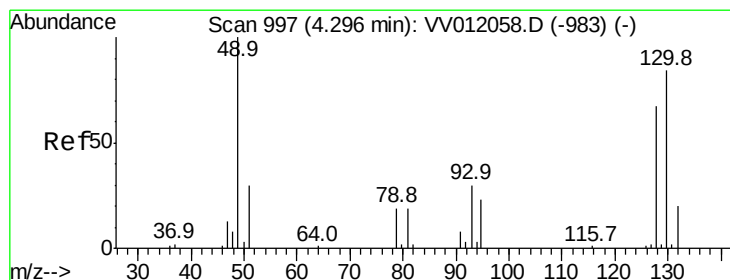
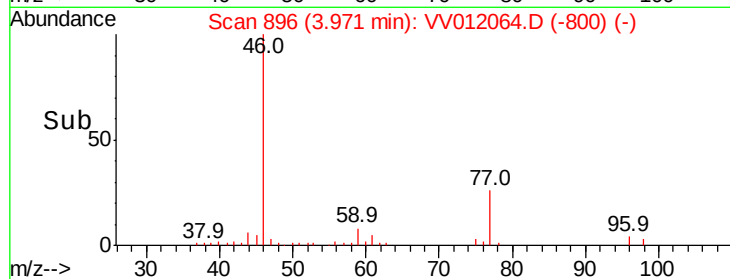
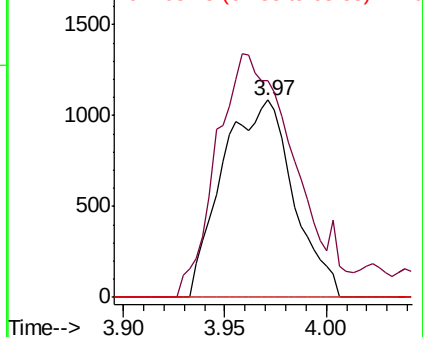
Tot Ion	Ratio	Lower	Upper
96	100		
61	109.6	90.0	167.2
68	0.0	0.0	0.0

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Abundance Ion 96.00 (95.70 to 96.70): VV012058.D (-876) (-)

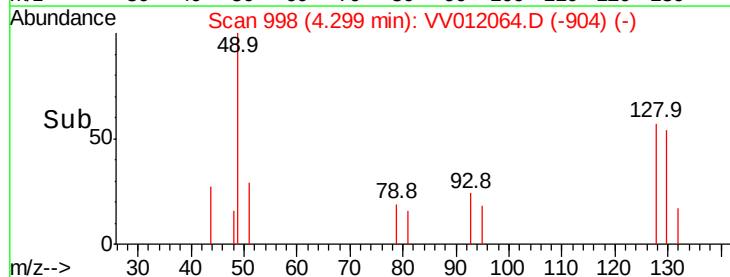
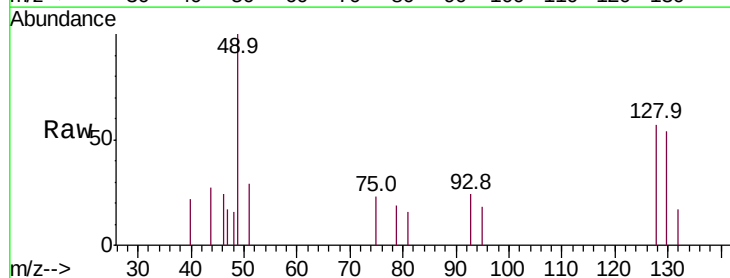
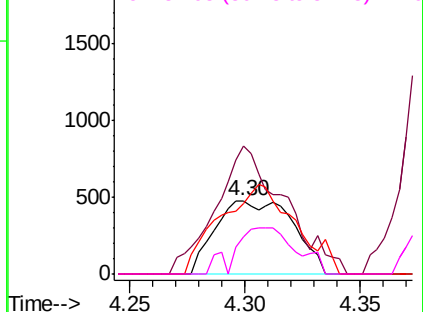


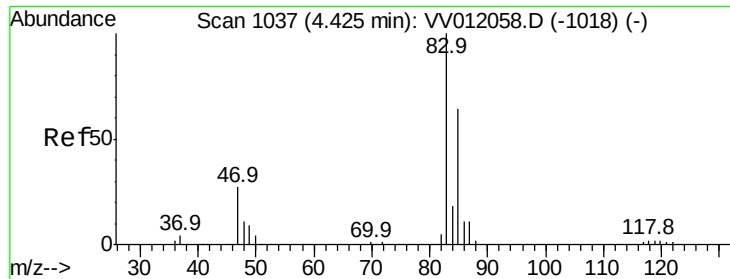
#23

Bromochloromethane
Concen: 0.256 ug/L m
RT: 4.30 min Scan# 998
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
128	100		
49	175.6	105.1	195.1
130	95.4	88.9	165.1
51	50.8	36.2	54.2

Abundance Ion 127.90 (127.60 to 128.60): VV012058.D (-983) (-)





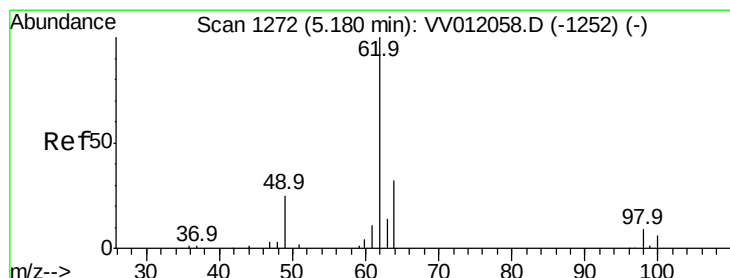
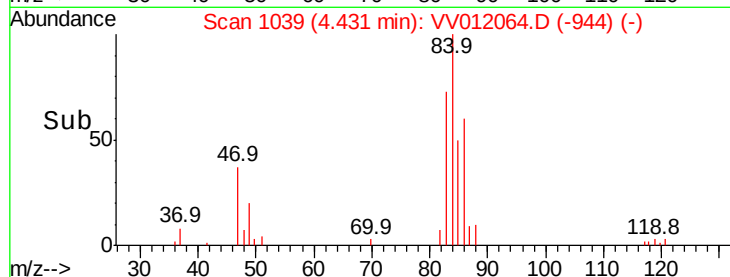
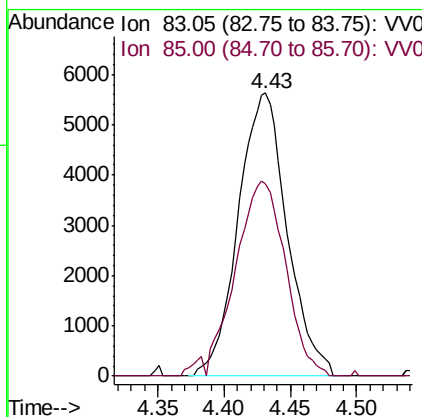
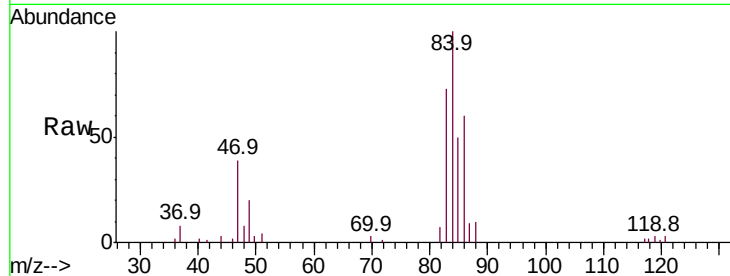
#25
Chloroform
Concen: 0.692 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. 0.01 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion: 83 Resp: 14463
Ion Ratio Lower Upper
83 100
85 68.2 45.2 84.0

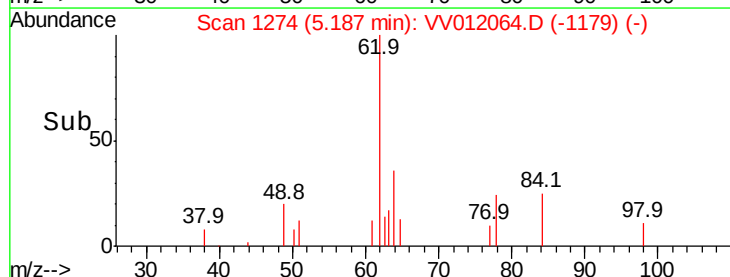
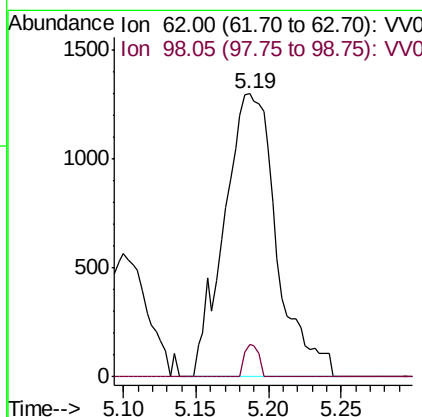
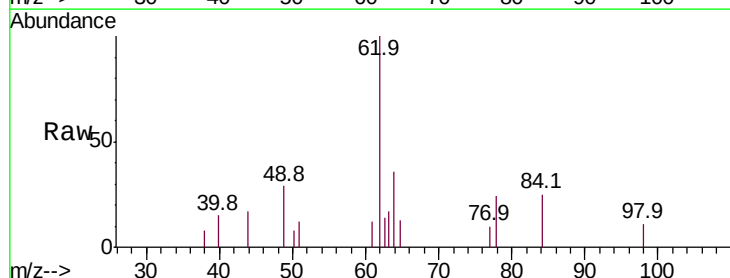
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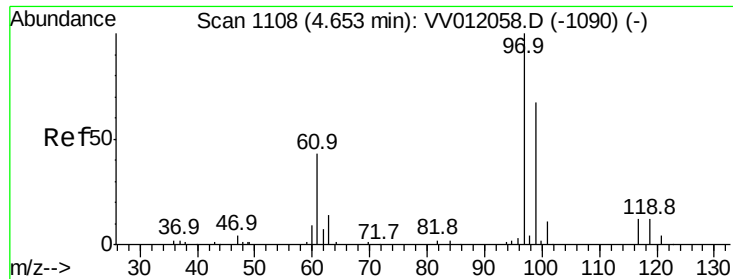
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#27
1,2-Dichloroethane
Concen: 0.284 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion: 62 Resp: 3282
Ion Ratio Lower Upper
62 100
98 9.9 7.0 10.6





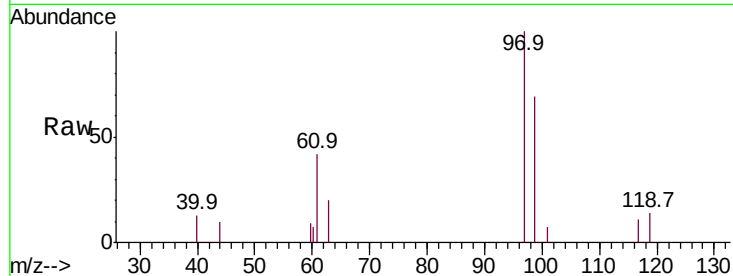
#29
1,1,1-Trichloroethane
Concen: 0.263 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.01 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
97	100		
99	61.0	51.8	77.8
61	41.8	34.5	51.7

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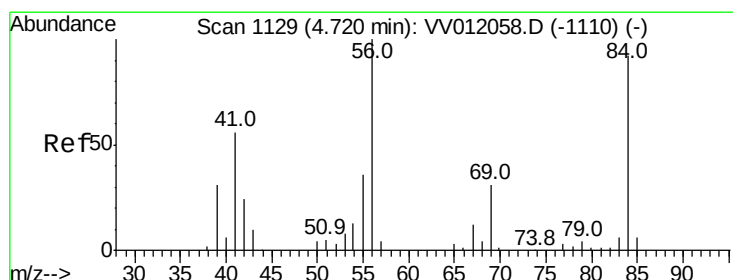
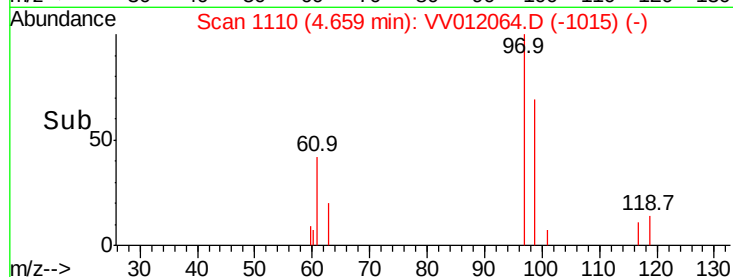
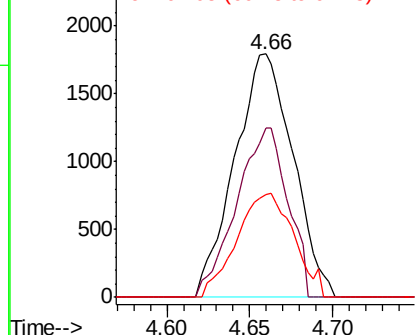


Abundance

Ion 96.95 (96.65 to 97.65): VV012058.D (-1090) (-)

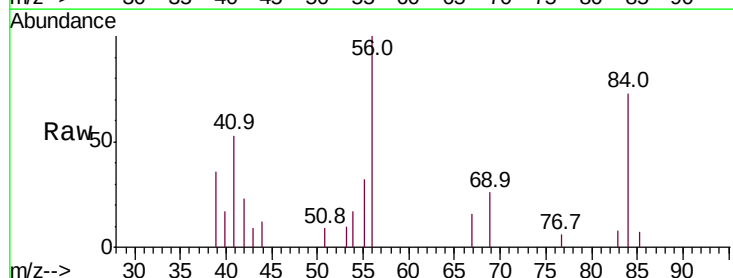
Ion 99.05 (98.75 to 99.75): VV012058.D (-1090) (-)

Ion 61.05 (60.75 to 61.75): VV012058.D (-1090) (-)



#30
Cyclohexane
Concen: 0.271 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
56	100		
69	25.0	24.8	37.2
84	83.7	75.4	113.2

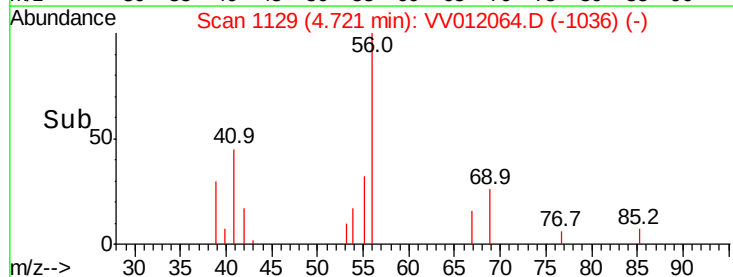
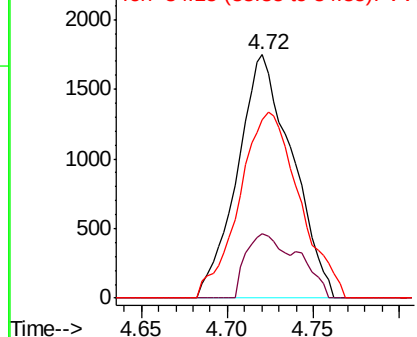


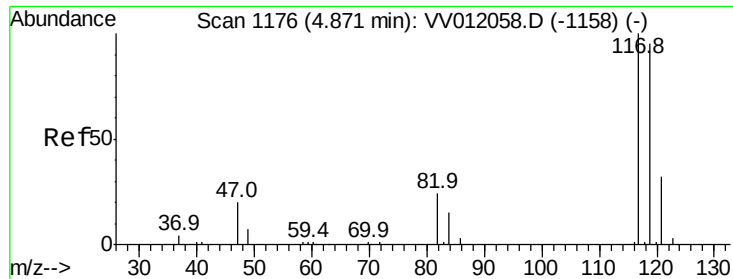
Abundance

Ion 56.10 (55.80 to 56.80): VV012058.D (-1110) (-)

Ion 69.15 (68.85 to 69.85): VV012058.D (-1110) (-)

Ion 84.15 (83.85 to 84.85): VV012058.D (-1110) (-)





#31

Carbon tetrachloride

Concen: 0.232 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion:117 Resp: 3486

Ion Ratio Lower Upper

117 100

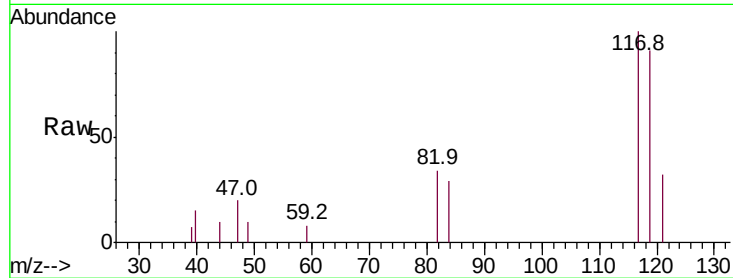
119 96.3 77.7 116.5

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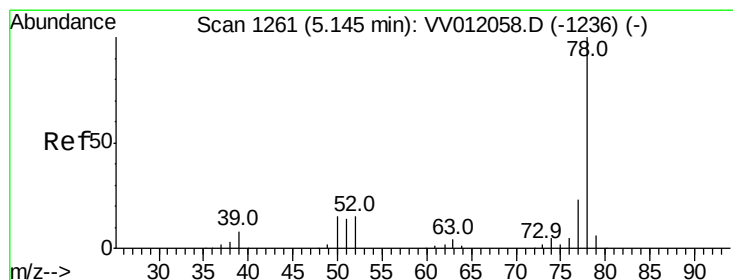
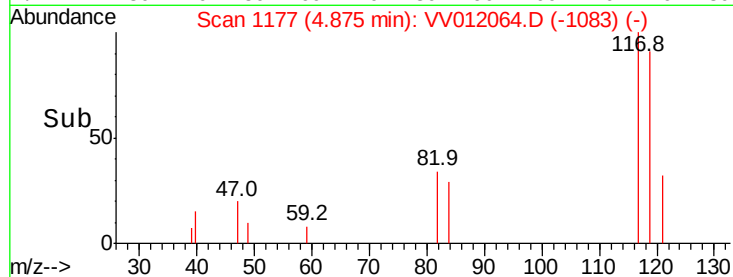
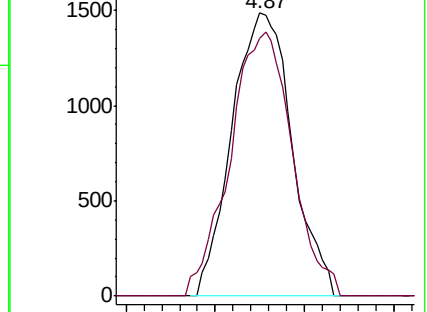
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.265 ug/L

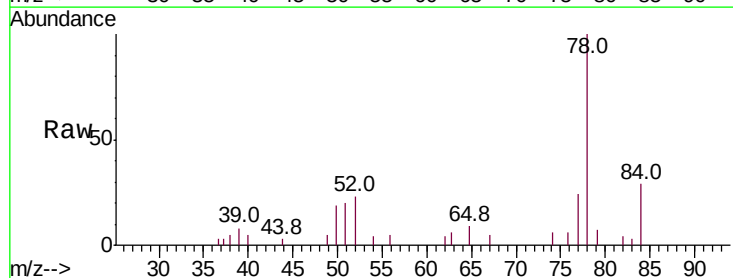
RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

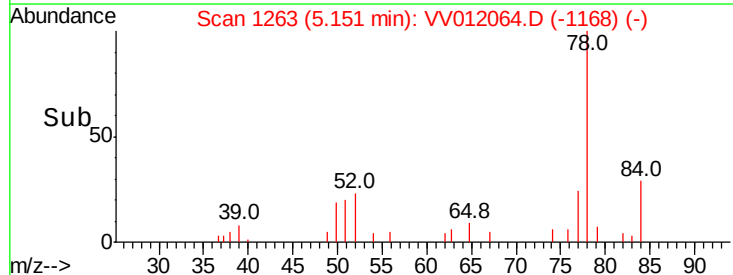
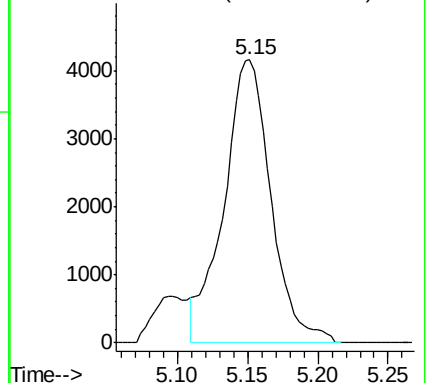
Lab File: VV012064.D

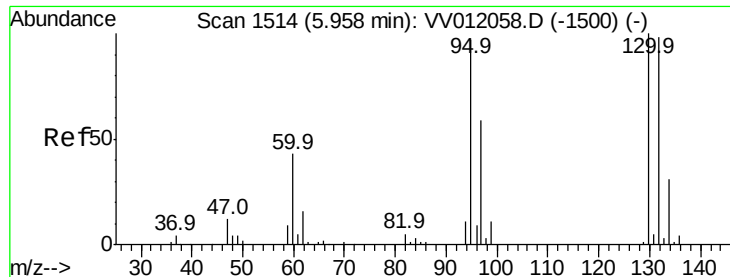
Acq: 29 Jul 2019 15:59

Tgt Ion: 78 Resp: 9710



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 0.256 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Instrument :

MSVOA_V

ClientSampled :

MDL02

Tot Ion: 95 Resp: 2672

Ion Ratio Lower Upper

95 100

97 69.3 42.8 79.6

132 107.0 70.8 131.6

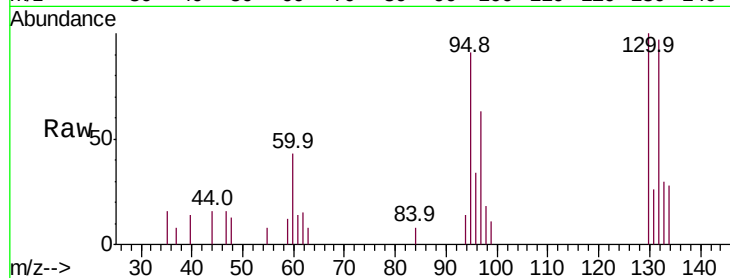
130 110.2 72.3 134.3

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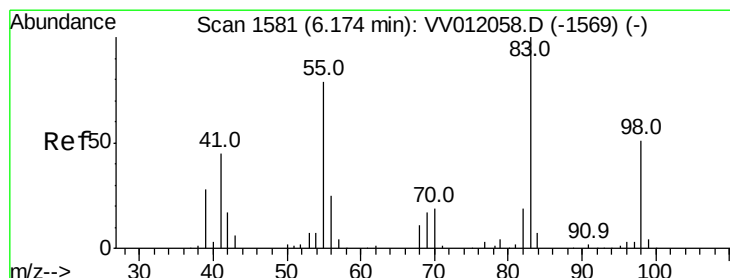
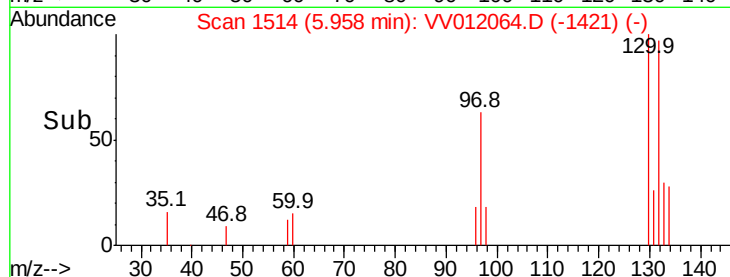
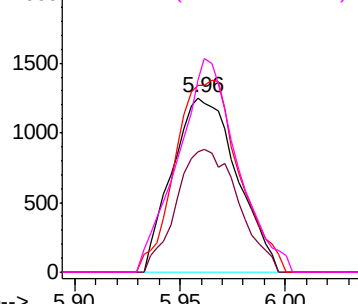


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 0.258 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

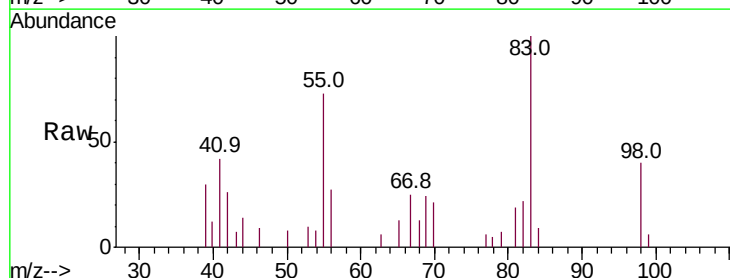
Tgt Ion: 83 Resp: 4232

Ion Ratio Lower Upper

83 100

55 80.8 60.1 90.1

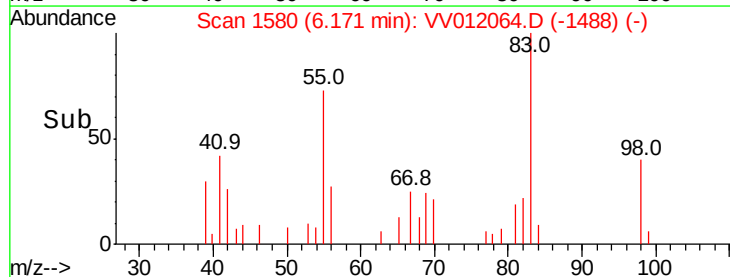
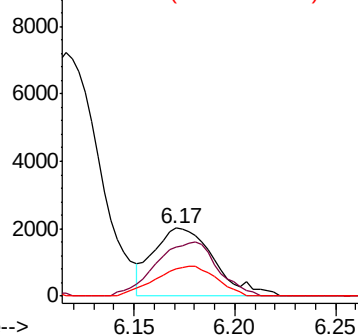
98 43.6 40.2 60.4

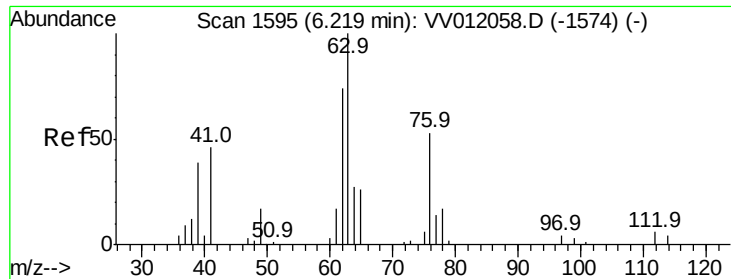


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





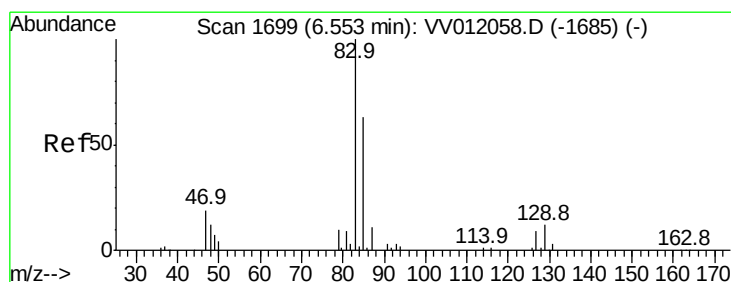
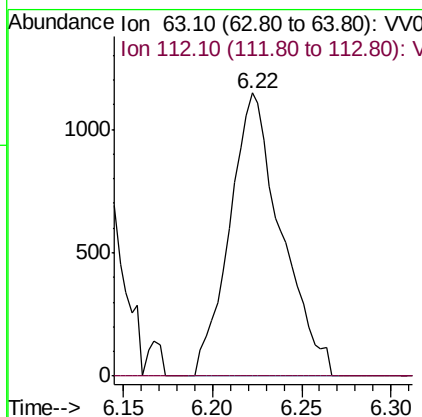
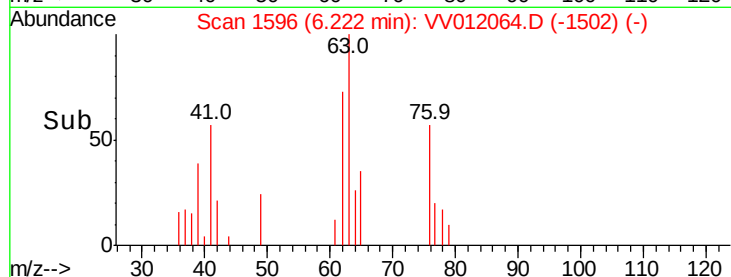
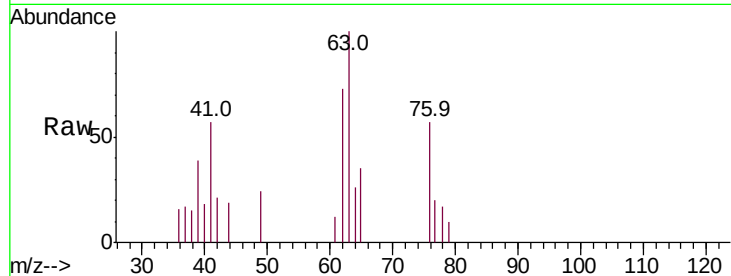
#37
 1,2-Dichloropropane
 Concen: 0.272 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

Tot Ion: 63 Resp: 2311
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.8 5.6#

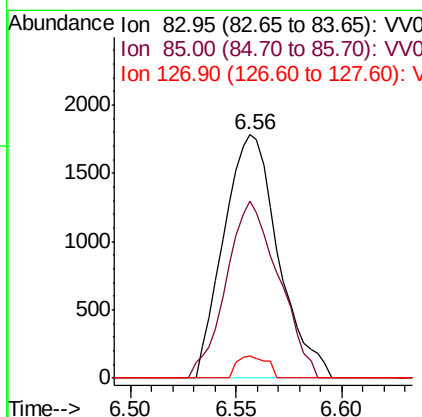
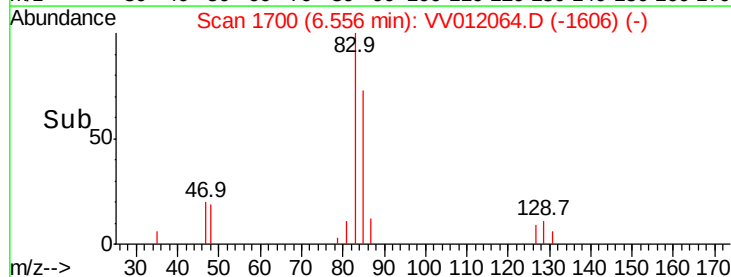
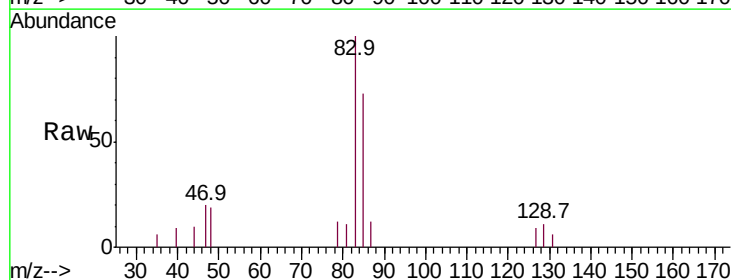
Manual Integrations
 APPROVED

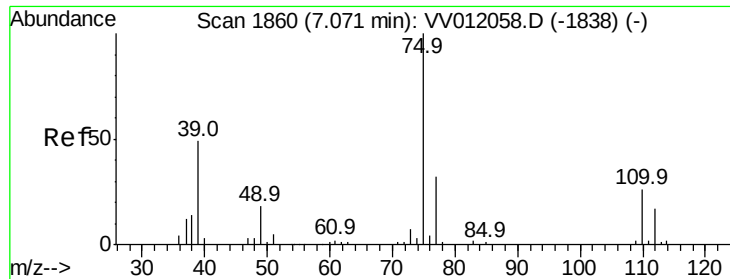
MMDadoda
 7/30/2019 10:58:20 AM



#38
 Bromodichloromethane
 Concen: 0.267 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Tgt Ion: 83 Resp: 3198
 Ion Ratio Lower Upper
 83 100
 85 72.6 43.9 81.5
 127 8.9 6.9 10.3





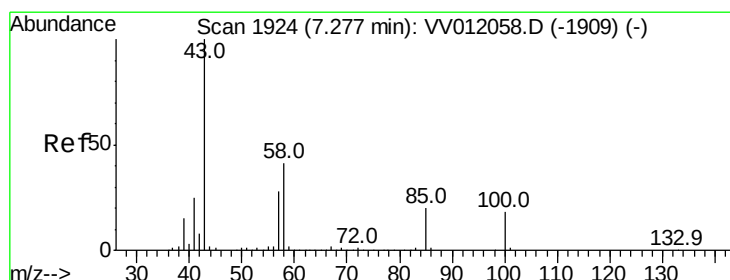
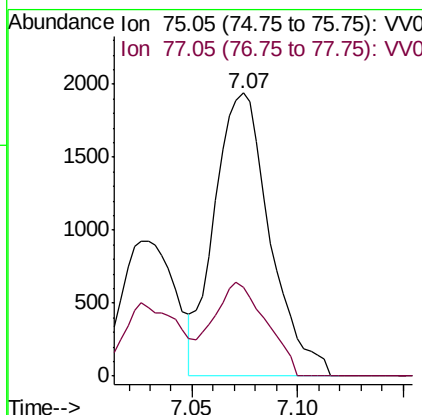
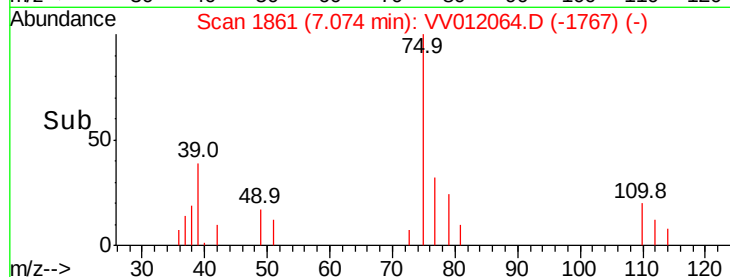
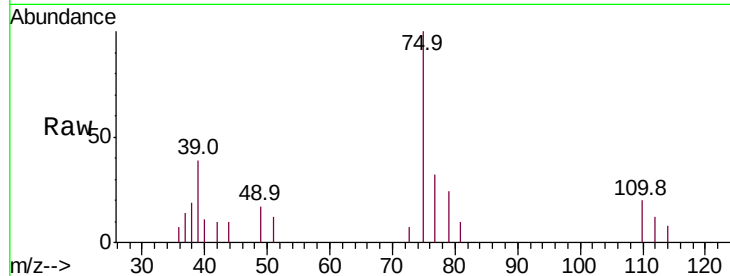
#39
 cis-1,3-Dichloropropene
 Concen: 0.267 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

Tot Ion: 75 Resp: 3546
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.4 41.6

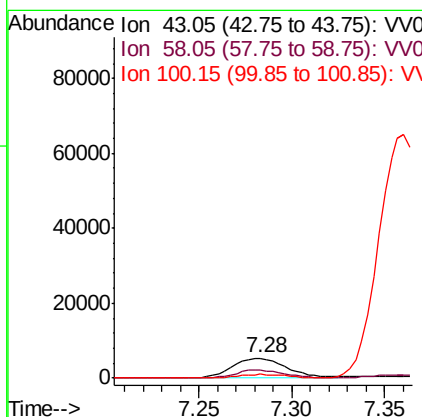
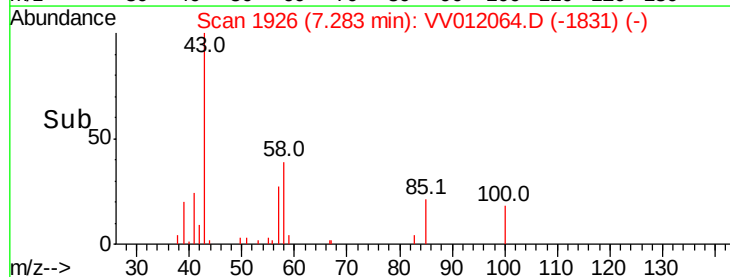
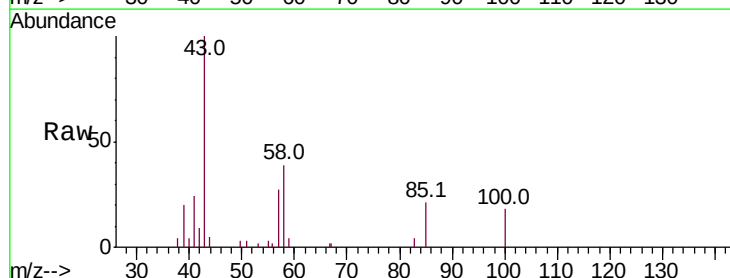
Manual Integrations
 APPROVED

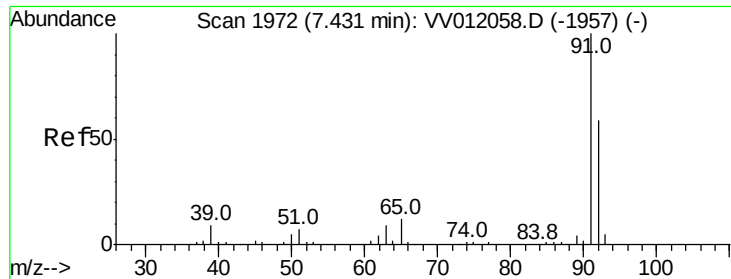
MMDadoda
 7/30/2019 10:58:20 AM



#40
 4-Methyl-2-pentanone
 Concen: 2.260 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.01 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Tgt Ion: 43 Resp: 10813
 Ion Ratio Lower Upper
 43 100
 58 37.7 31.9 47.9
 100 0.0 14.0 21.0#





#42

Toluene

Concen: 0.247 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion: 91 Resp: 10071

Ion Ratio Lower Upper

91 100

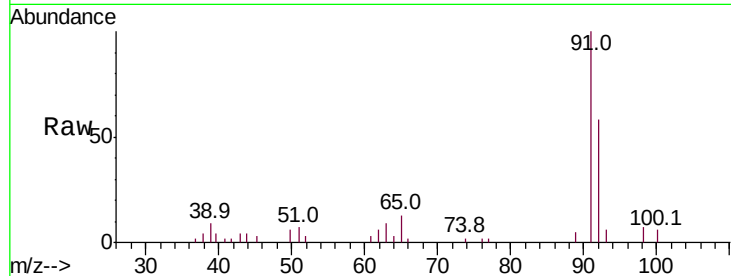
92 58.0 41.3 76.7

Manual Integrations

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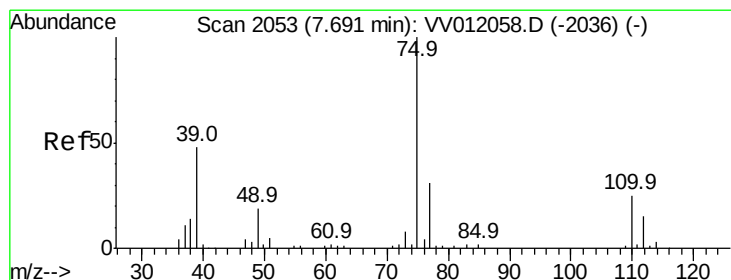
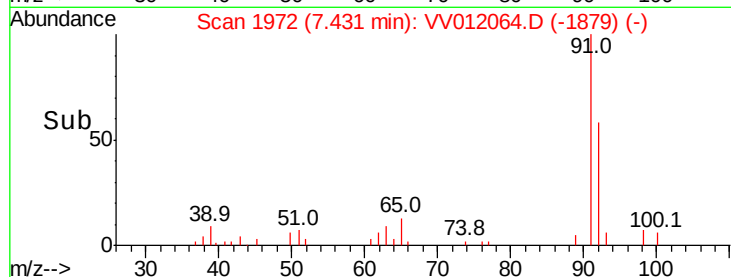
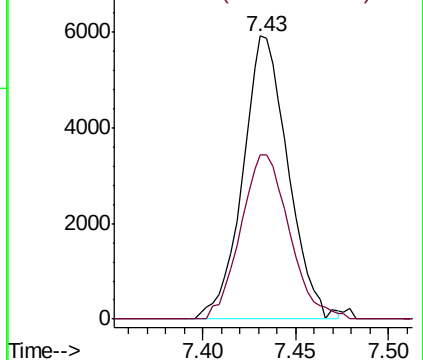
MMDadoda

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Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.234 ug/L

RT: 7.70 min Scan# 2056

Delta R.T. 0.01 min

Lab File: VV012064.D

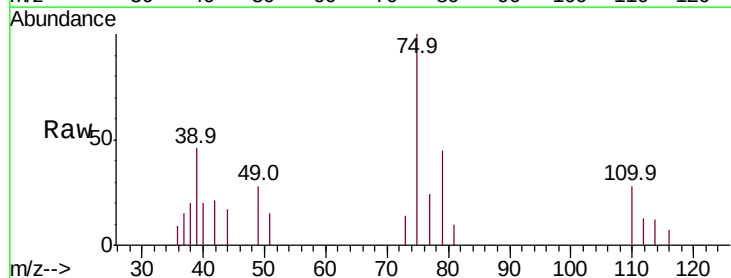
Acq: 29 Jul 2019 15:59

Tgt Ion: 75 Resp: 2511

Ion Ratio Lower Upper

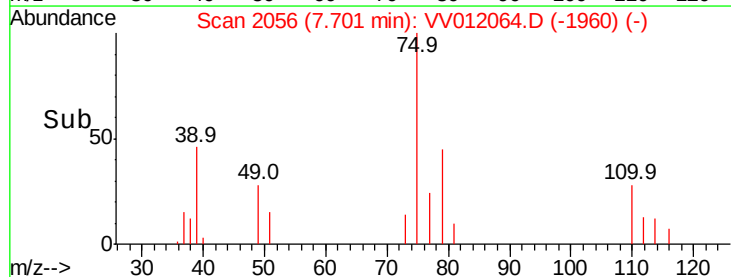
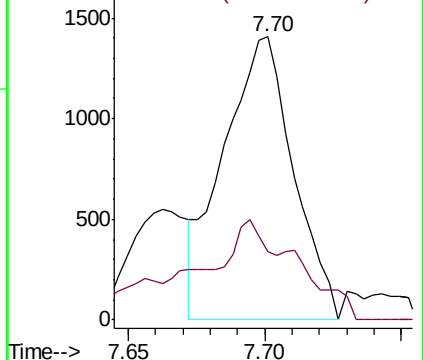
75 100

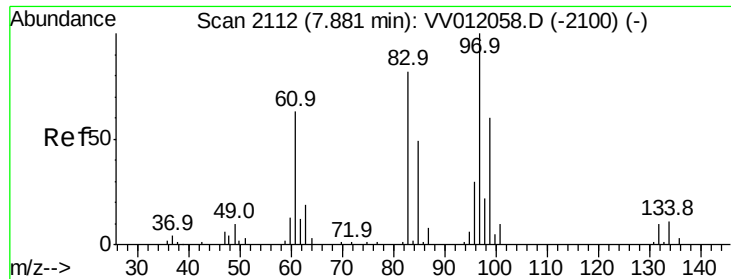
77 24.1 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0





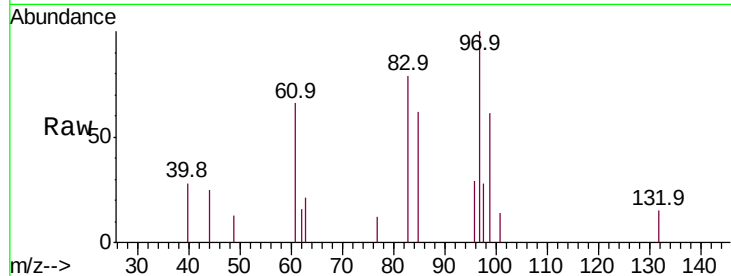
#45
1,1,2-Trichloroethane
Concen: 0.275 ug/L
RT: 7.89 min Scan# 2115
Delta R.T. 0.01 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

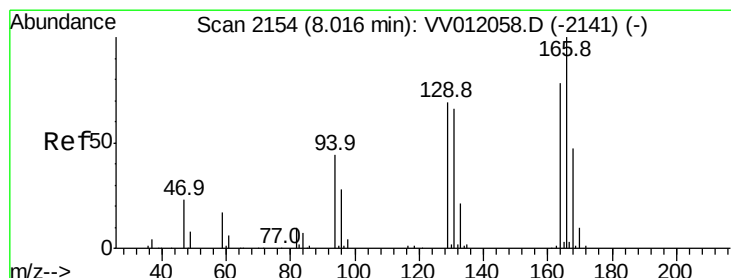
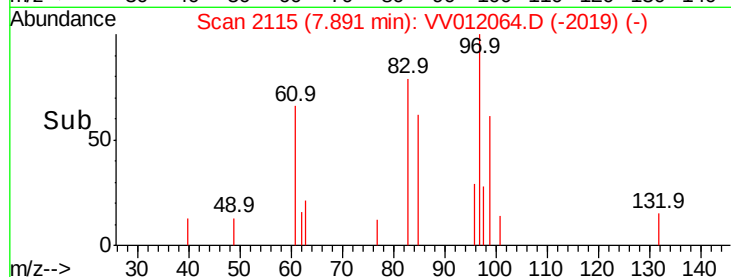
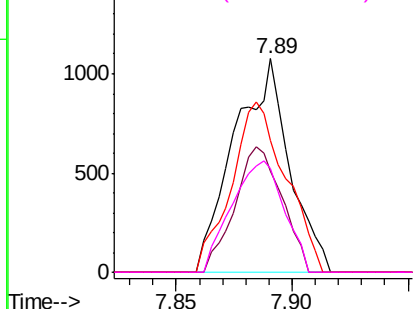
Tot Ion: 97 Resp: 1779
Ion Ratio Lower Upper
97 100
99 47.5 42.0 78.0
83 62.0 57.6 107.0
85 48.3 34.6 64.2

Manual Integrations
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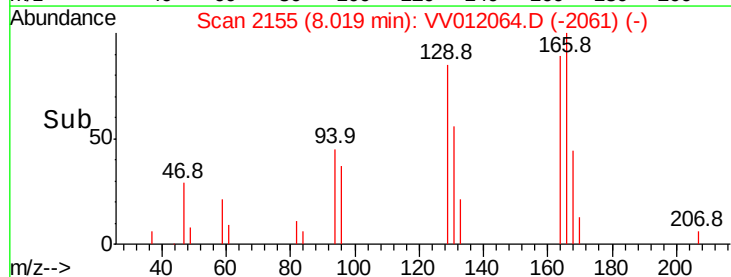
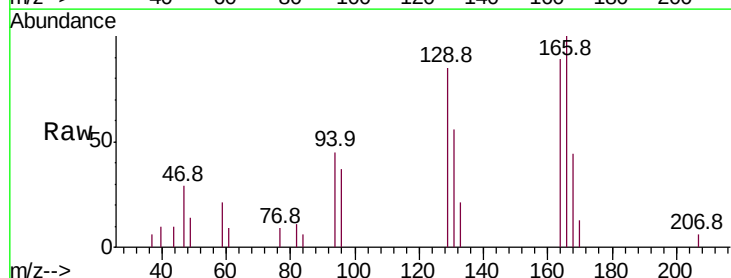
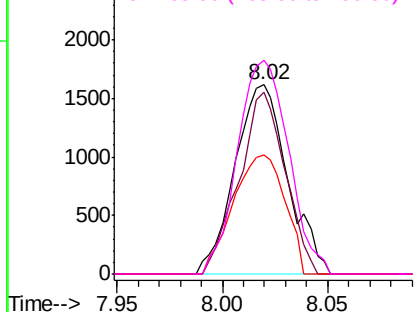
Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0

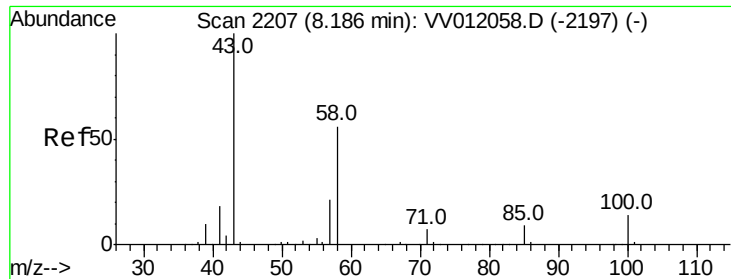


#47
Tetrachloroethene
Concen: 0.307 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion: 164 Resp: 2801
Ion Ratio Lower Upper
164 100
129 96.3 61.9 114.9
131 63.0 59.4 110.4
166 112.9 89.6 166.4

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V





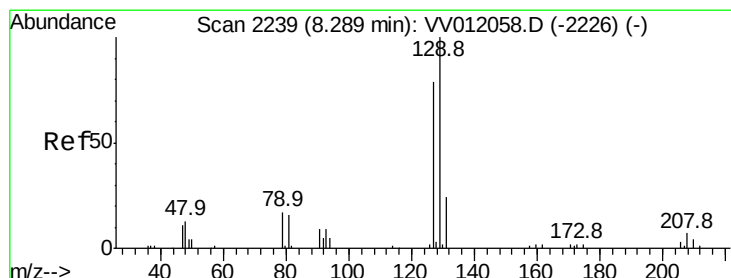
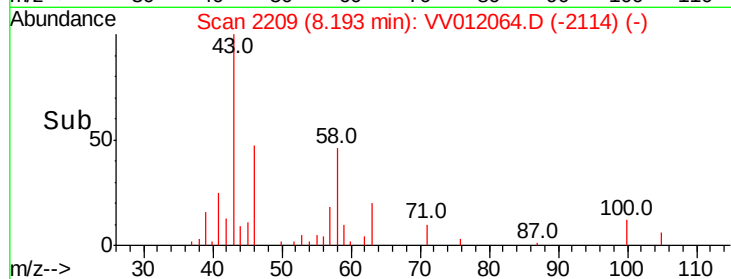
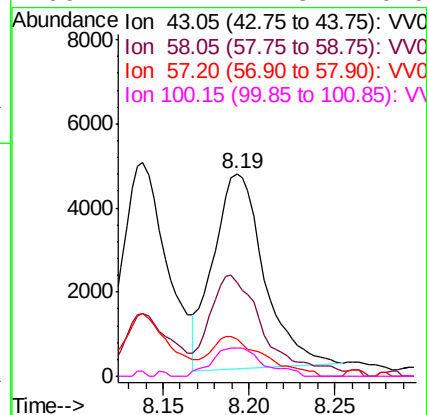
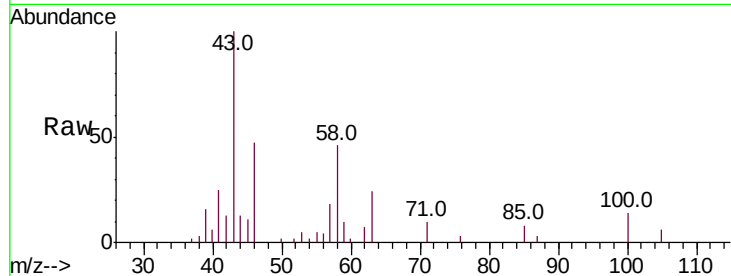
#48
2-Hexanone
Concen: 2.821 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.4	44.1	66.1
57	21.2	16.1	24.1
100	14.7	11.3	16.9

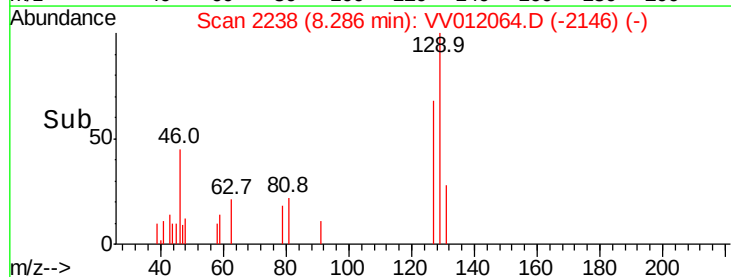
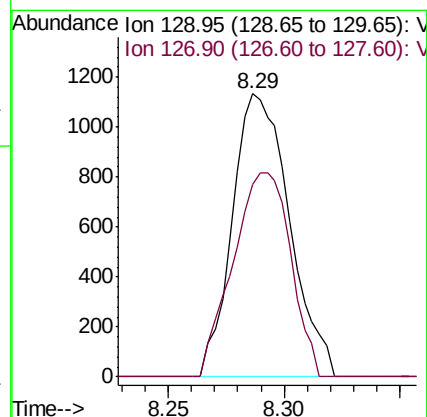
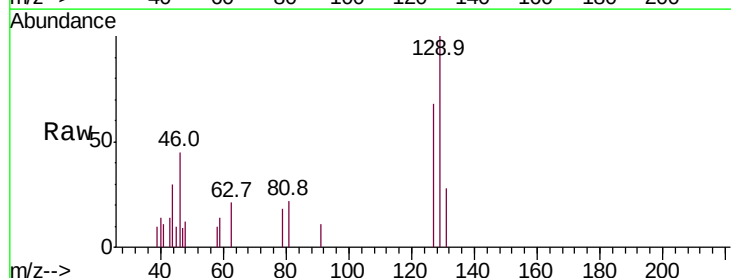
Manual Integrations
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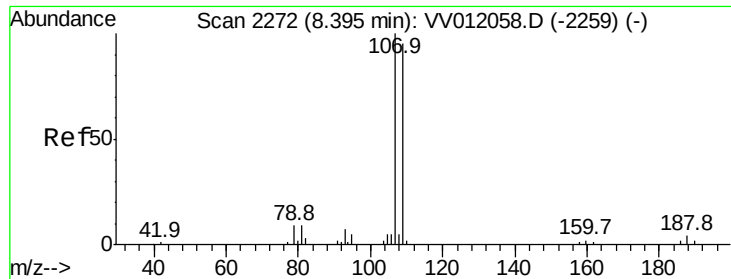
MMDadoda
7/30/2019 10:58:20 AM



#49
Dibromochloromethane
Concen: 0.244 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
129	100		
127	68.1	55.4	102.8





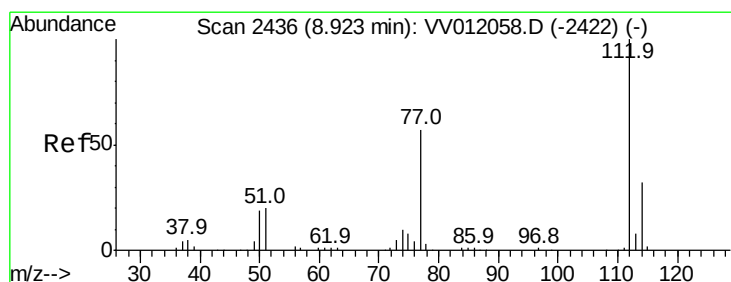
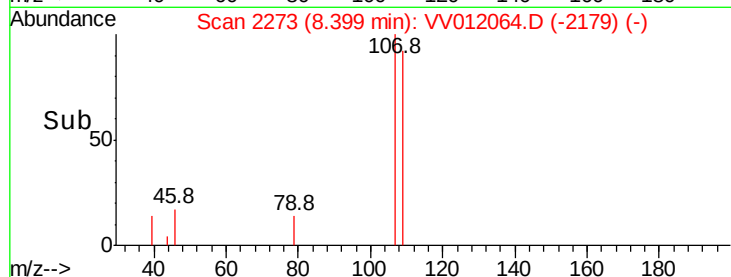
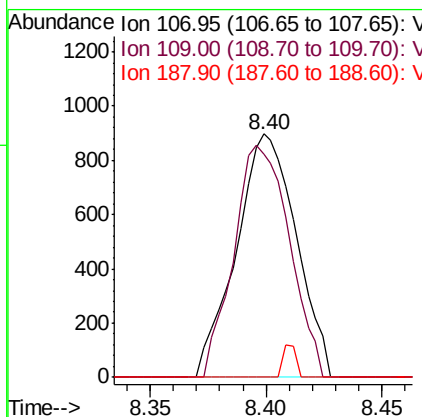
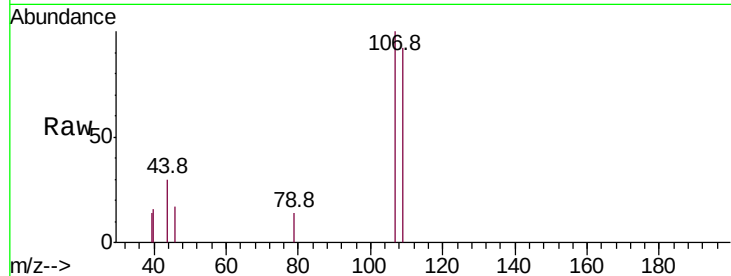
#50
1,2-Dibromoethane
Concen: 0.266 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Resp	Lower	Upper
107	100	1610		
109	91.8	66.3	123.1	
188	0.0	3.4	5.0#	

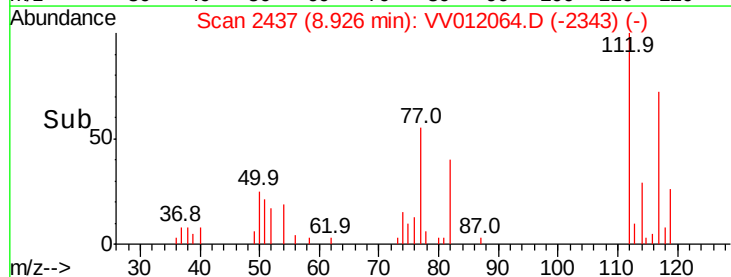
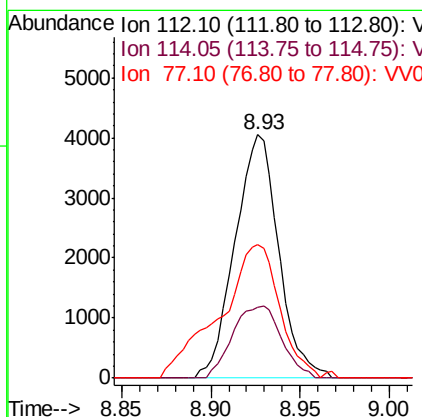
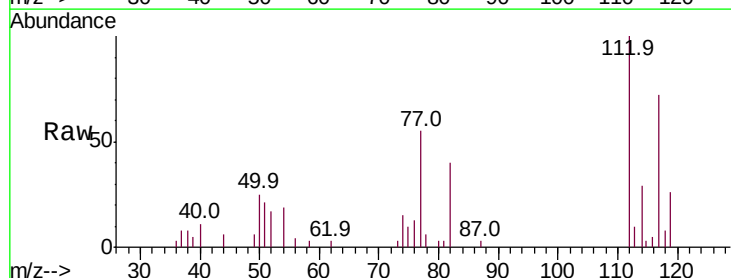
Manual Integrations
APPROVED

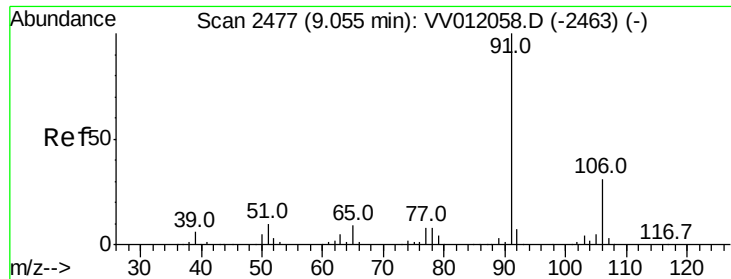
MMDadoda
7/30/2019 10:58:20 AM



#51
Chlorobenzene
Concen: 0.254 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	6930		
114	29.1	22.1	41.1	
77	54.8	45.9	68.9	





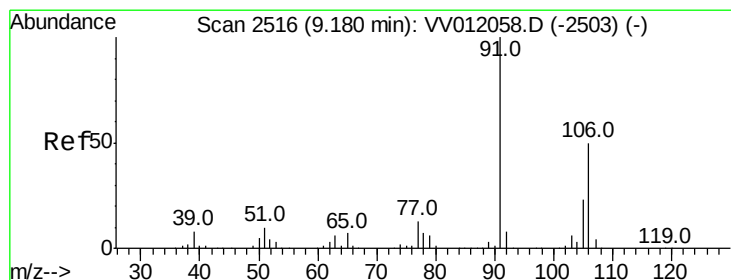
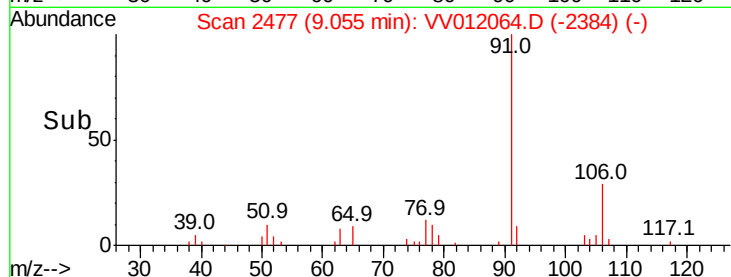
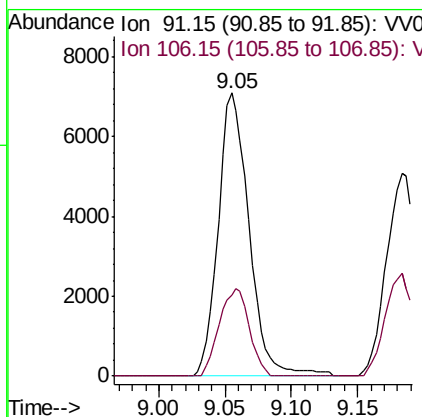
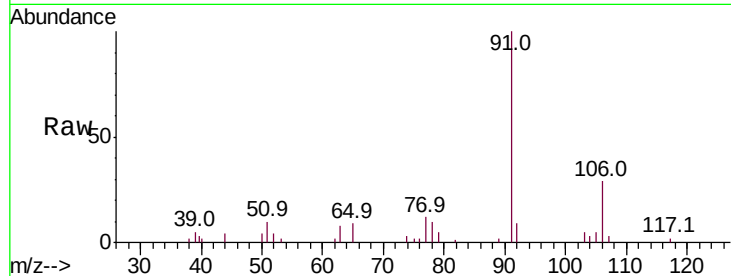
#52
Ethylbenzene
Concen: 0.247 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion: 91 Resp: 11468
Ion Ratio Lower Upper
91 100
106 28.9 21.6 40.2

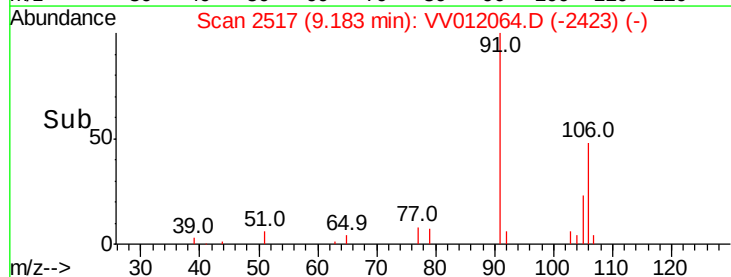
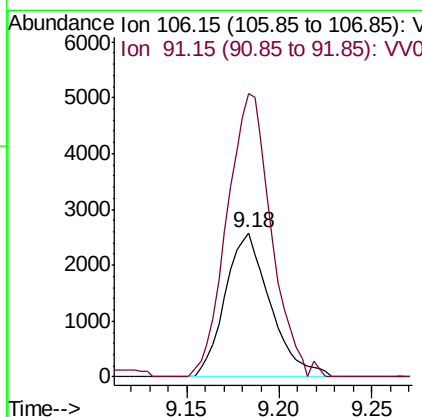
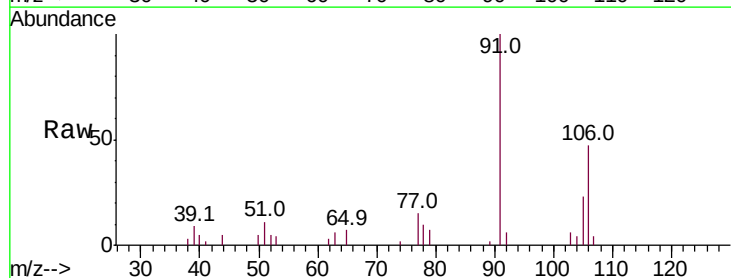
Manual Integrations
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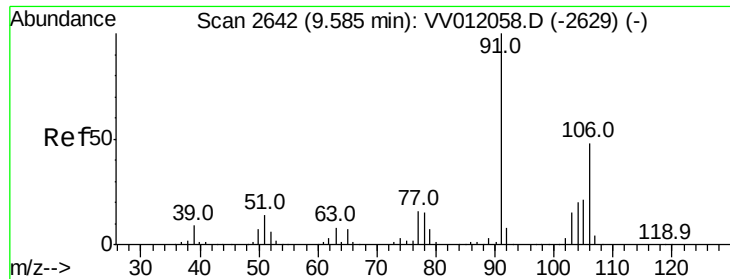
MMDadoda
7/30/2019 10:58:20 AM



#53
m,p-xylene
Concen: 0.245 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion: 106 Resp: 4345
Ion Ratio Lower Upper
106 100
91 196.5 141.6 263.0





#54

o-xylene

Concen: 0.236 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Instrument :

MSVOA_V

ClientSampleId :

MDL02

Tot Ion:106 Resp: 3963

Ion Ratio Lower Upper

106 100

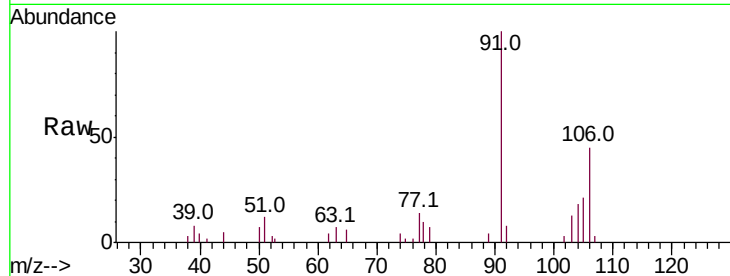
91 221.2 146.8 272.6

Manual Integrations

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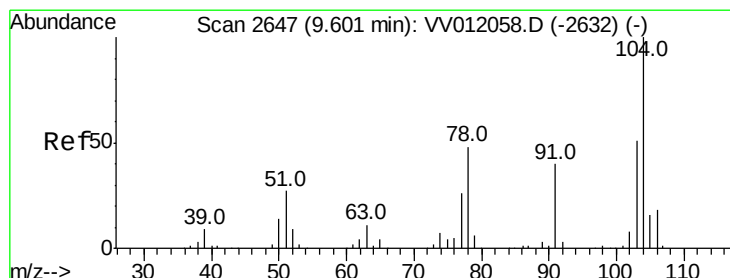
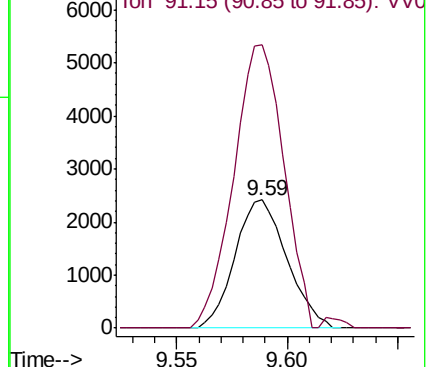
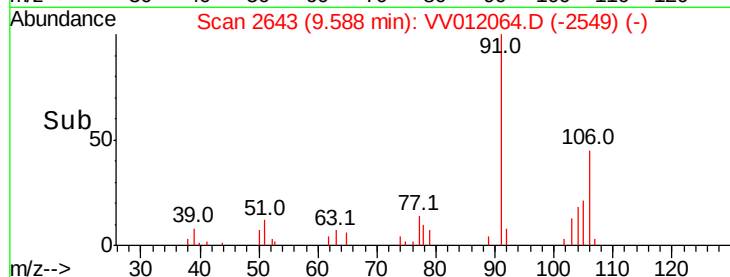
MMDadoda

7/30/2019 10:58:20 AM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.200 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV012064.D

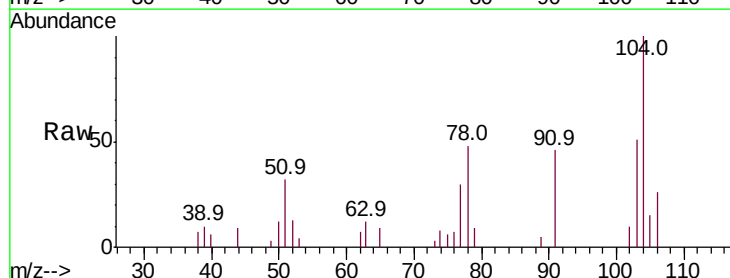
Acq: 29 Jul 2019 15:59

Tgt Ion:104 Resp: 5648

Ion Ratio Lower Upper

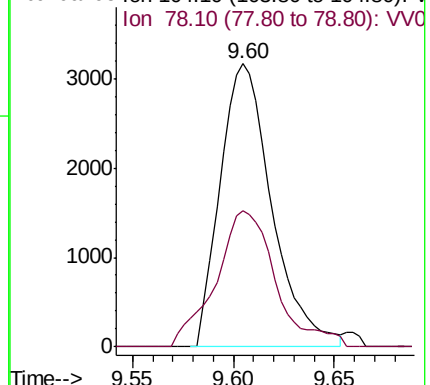
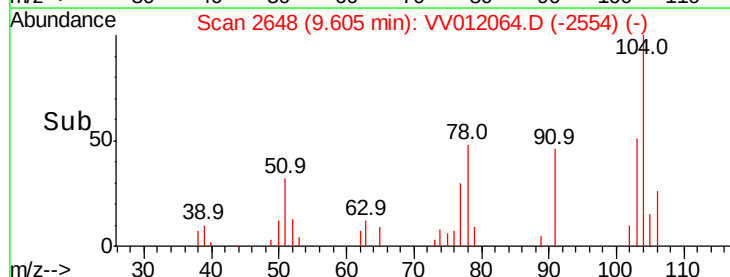
104 100

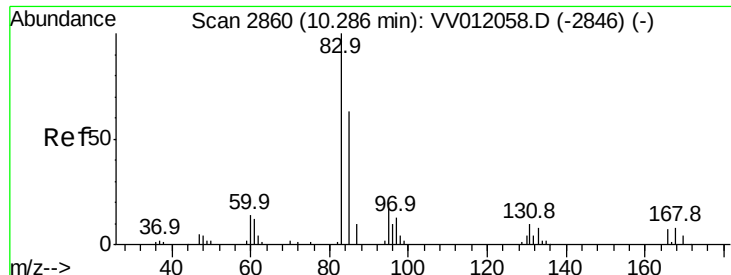
78 48.2 33.3 61.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 0.279 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Instrument :

MSVOA_V

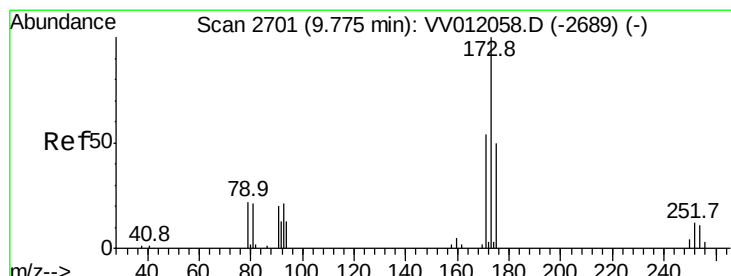
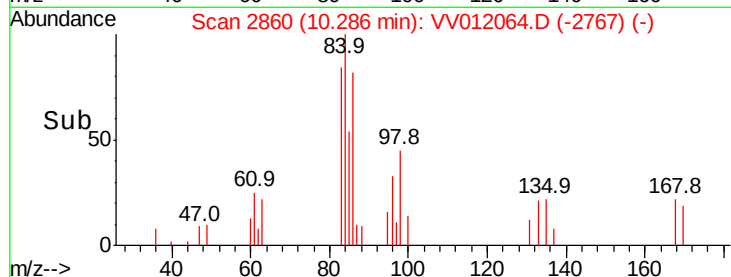
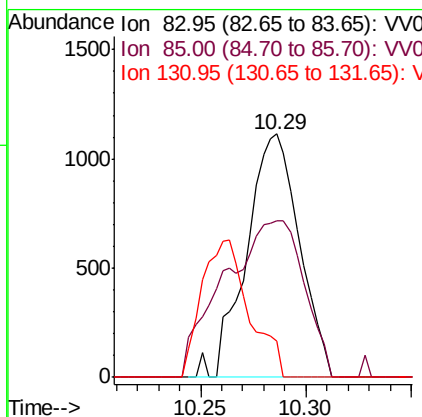
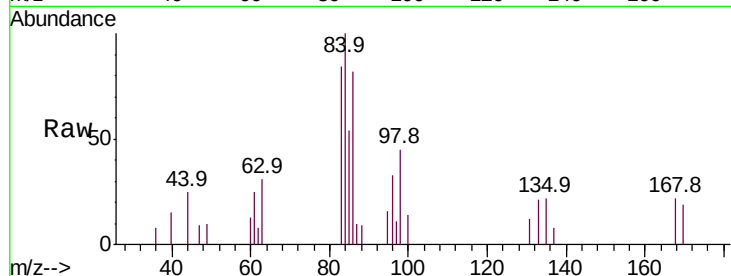
ClientSampled :

MDL02

Tot Ion:	83	Resp:	1940
Ion	Ratio	Lower	Upper
83	100		
85	64.2	44.0	81.6
131	14.7	8.3	12.5#

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#59

Bromoform

Concen: 0.255 ug/L

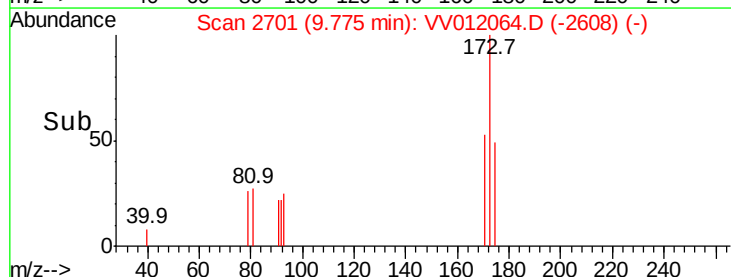
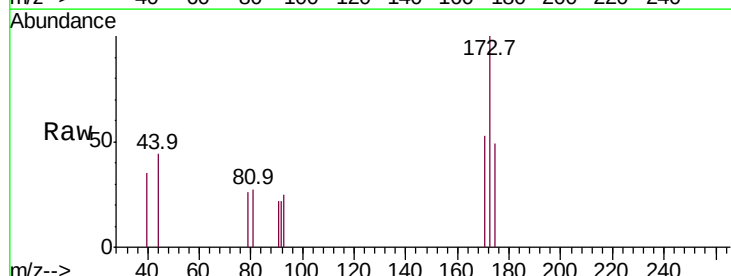
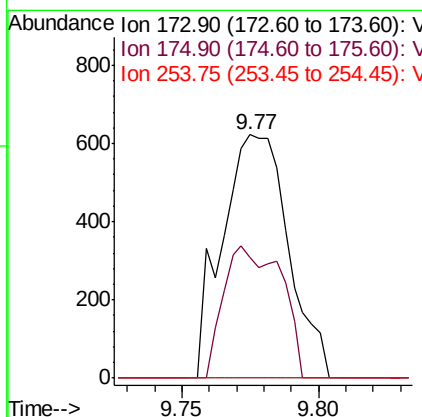
RT: 9.77 min Scan# 2701

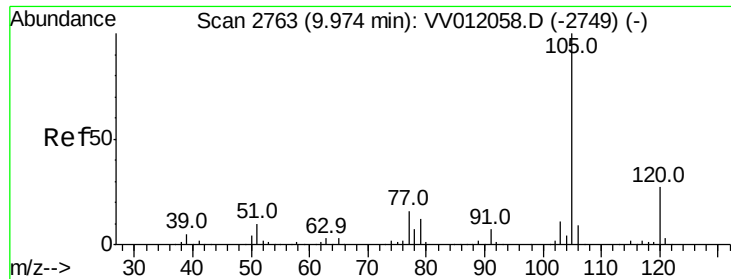
Delta R.T. 0.00 min

Lab File: VV012064.D

Acq: 29 Jul 2019 15:59

Tgt Ion:	173	Resp:	1048
Ion	Ratio	Lower	Upper
173	100		
175	47.3	38.3	57.5
254	0.0	8.6	13.0#





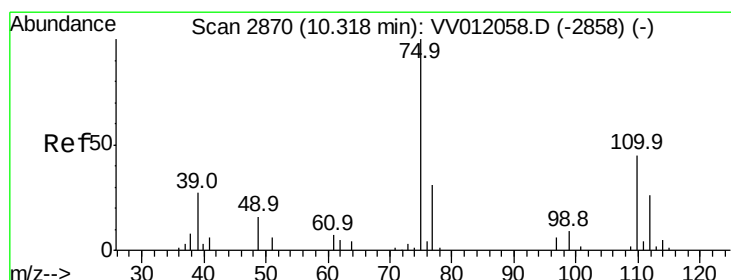
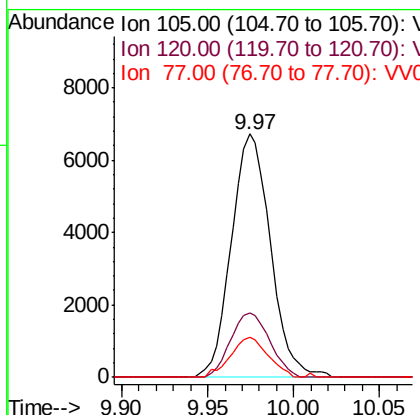
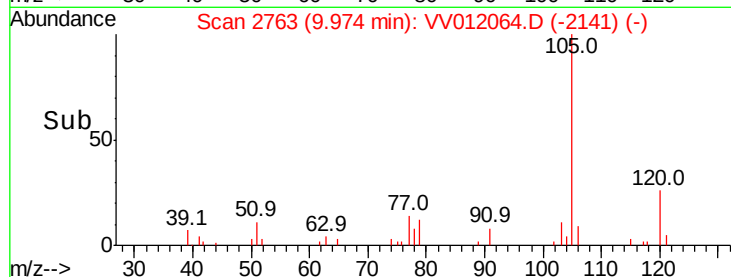
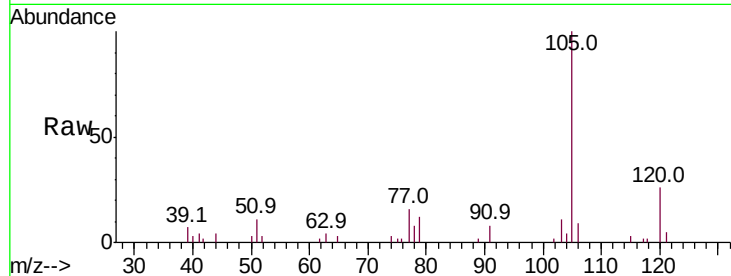
#60
Isopropylbenzene
Concen: 0.245 ug/L
RT: 9.97 min Scan# 2763
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.2	21.5	32.3
77	15.8	12.3	18.5

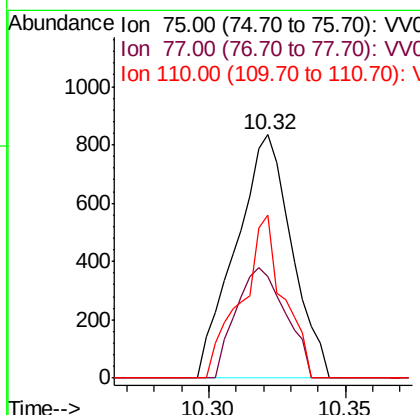
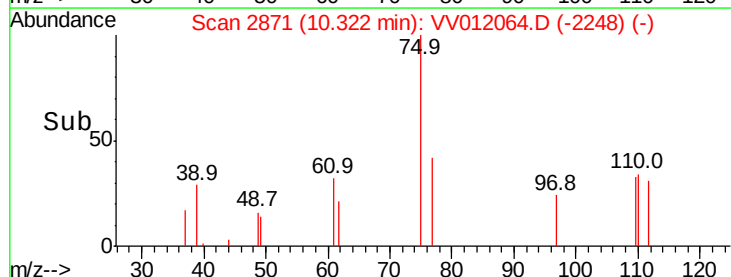
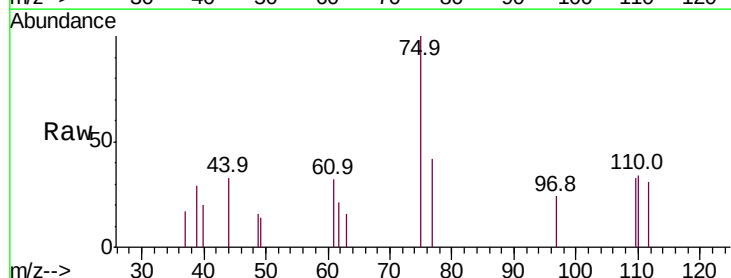
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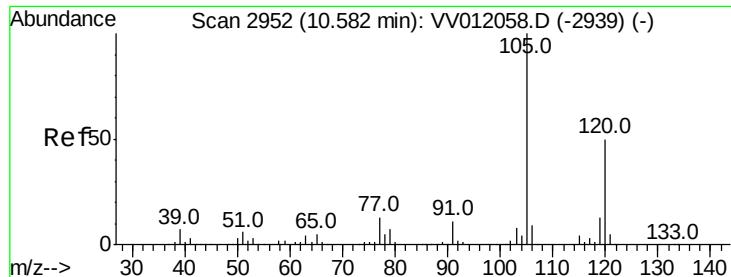
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#61
1,2,3-Trichloropropane
Concen: 0.240 ug/L
RT: 10.32 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
75	100		
77	40.5	26.8	40.2#
110	50.3	35.0	52.6





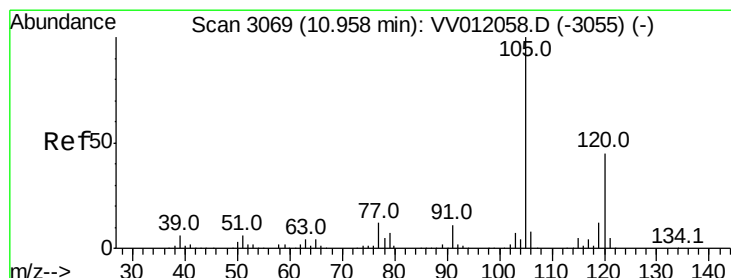
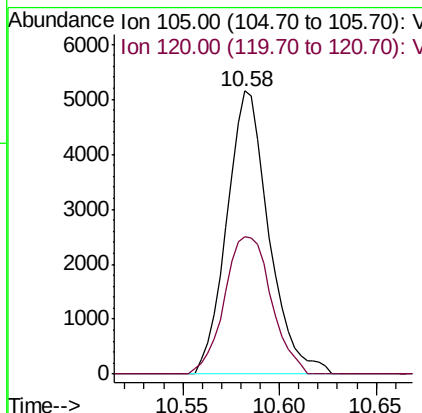
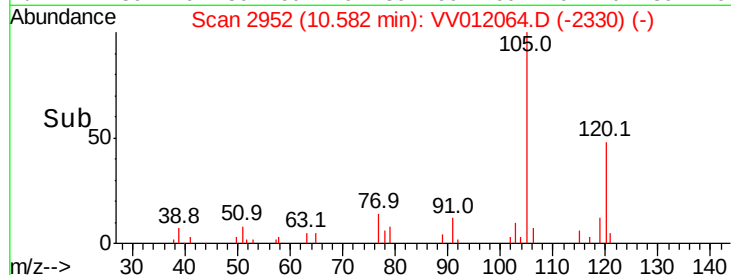
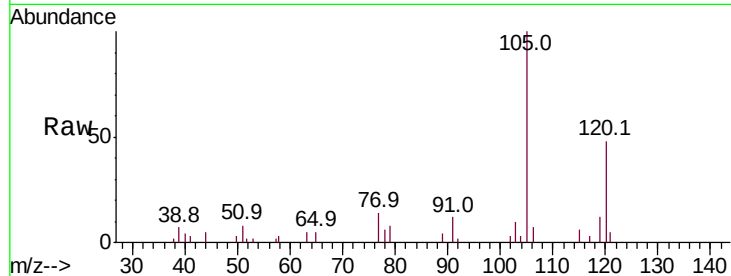
#62
 1,3,5-Trimethylbenzene
 Concen: 0.217 ug/L
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Tot Ion:105 Resp: 7771
 Ion Ratio Lower Upper
 105 100
 120 54.1 40.1 60.1

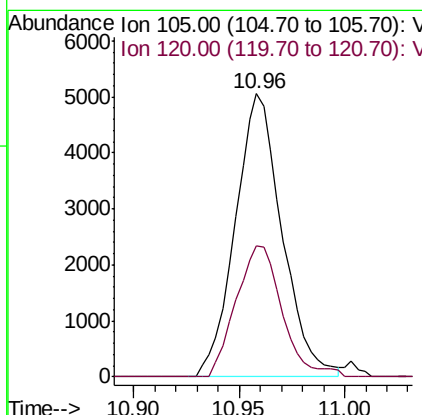
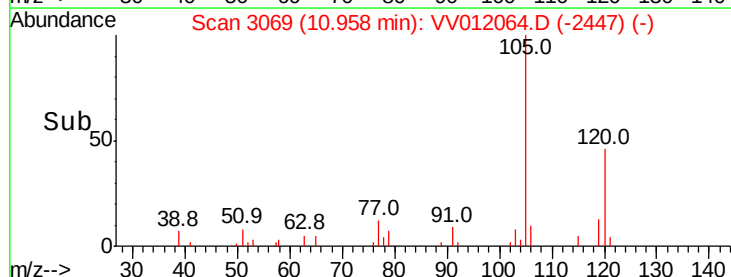
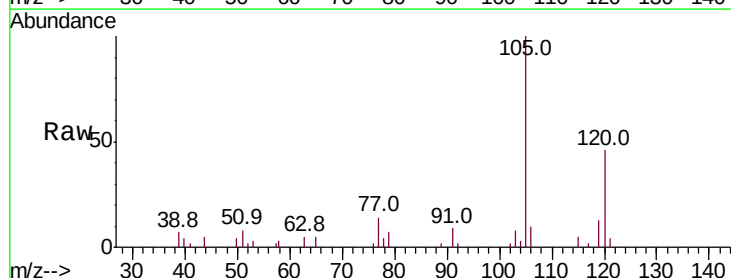
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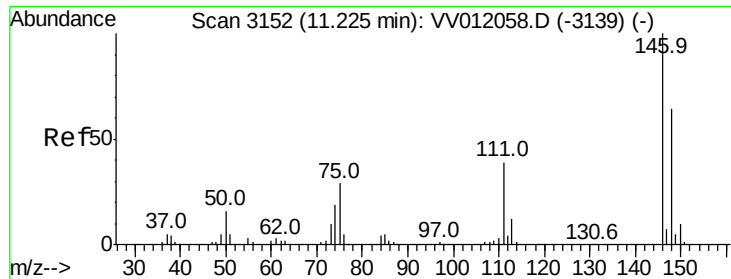
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#63
 1,2,4-Trimethylbenzene
 Concen: 0.219 ug/L
 RT: 10.96 min Scan# 3069
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Tgt Ion:105 Resp: 7780
 Ion Ratio Lower Upper
 105 100
 120 45.7 35.8 53.8





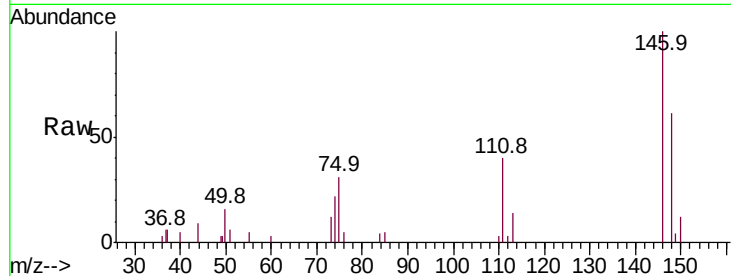
#64
 1,3-Dichlorobenzene
 Concen: 0.274 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

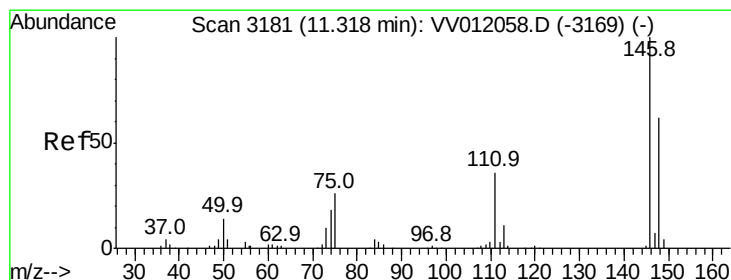
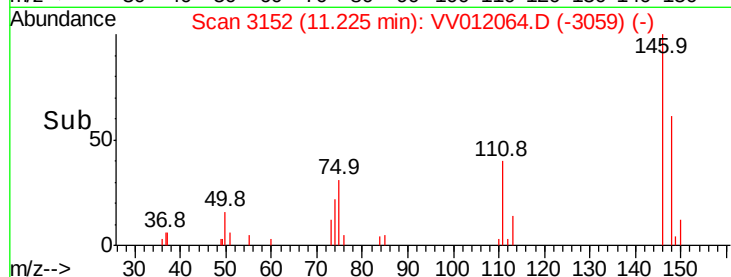
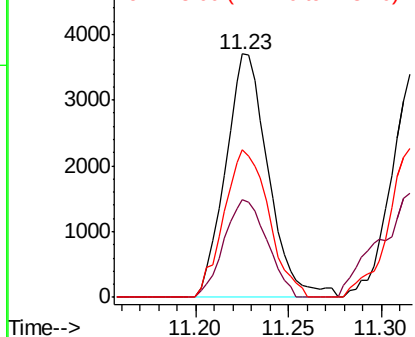
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	27.2	50.6
148	60.6	44.5	82.7

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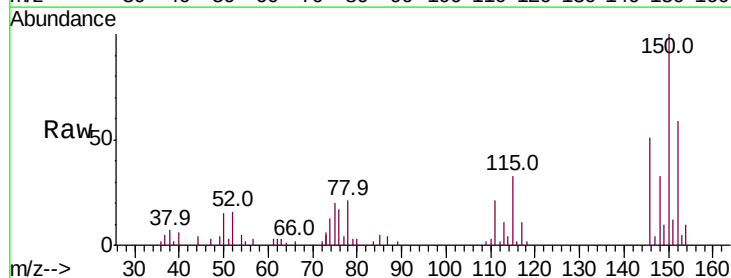


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

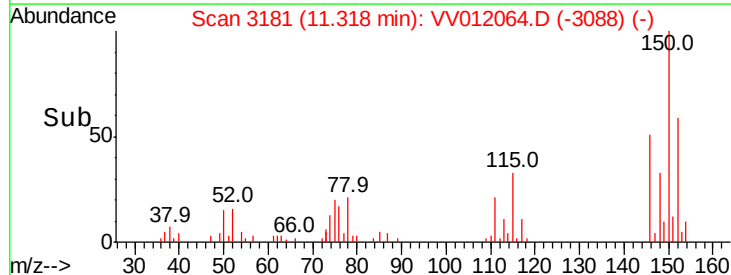
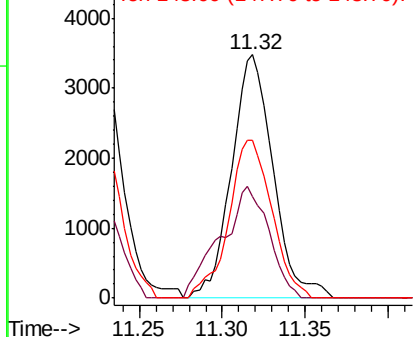


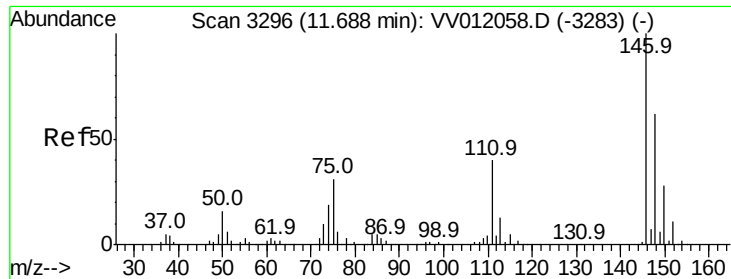
#65
 1,4-Dichlorobenzene
 Concen: 0.276 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	25.8	48.0
148	64.7	43.8	81.3



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





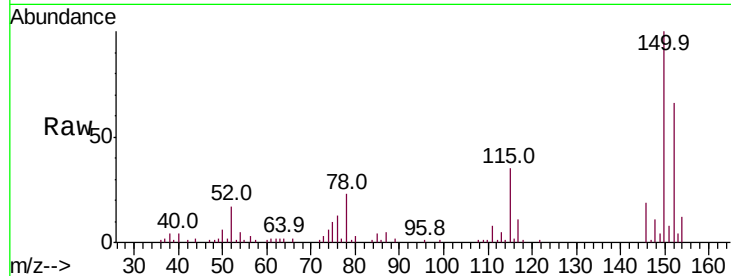
#67
 1,2-Dichlorobenzene
 Concen: 0.284 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Instrument :
 MSVOA_V
 ClientSampled :
 MDL02

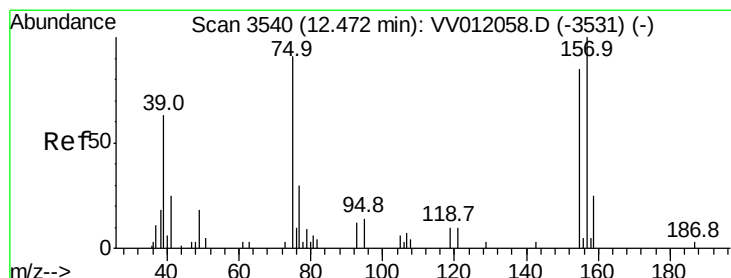
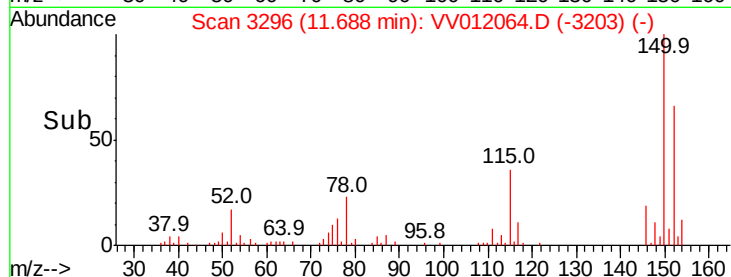
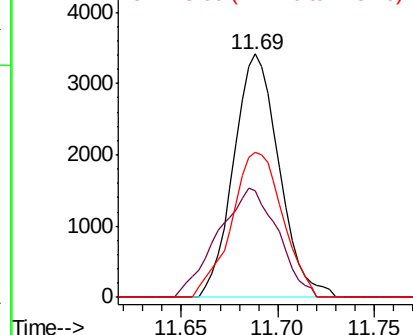
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	32.4	48.6
148	59.5	49.4	74.0

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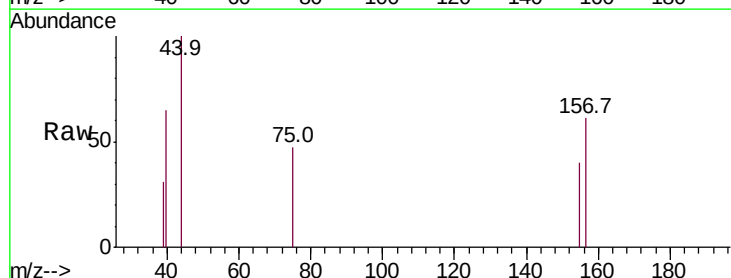


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

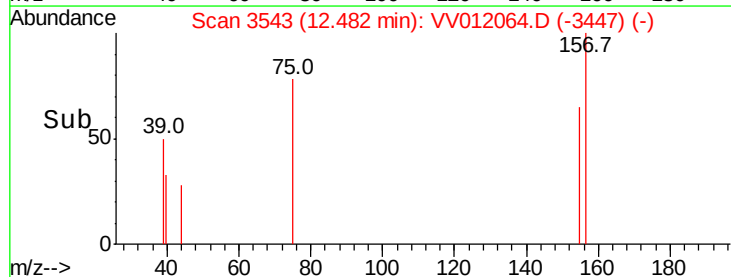
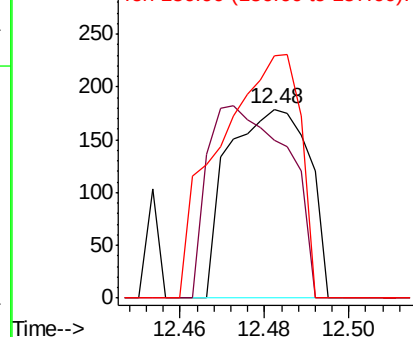


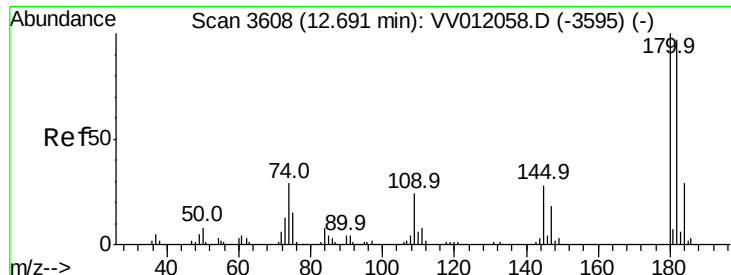
#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.234 ug/L
 RT: 12.48 min Scan# 3543
 Delta R.T. 0.01 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.8	75.0	112.6
157	128.5	87.8	131.6



Abundance Ion 75.05 (74.75 to 75.75): VV0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V





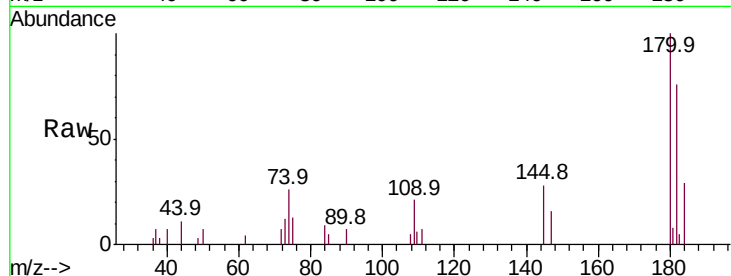
#69
 1,3,5-Trichlorobenzene
 Concen: 0.284 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	80.7	77.1	115.7
184	26.7	24.6	36.8
145	26.6	22.8	34.2

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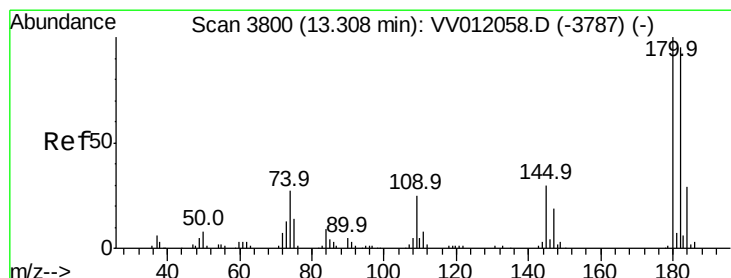
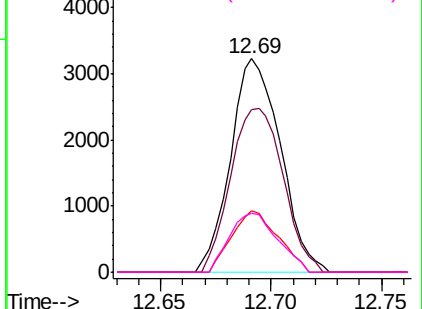
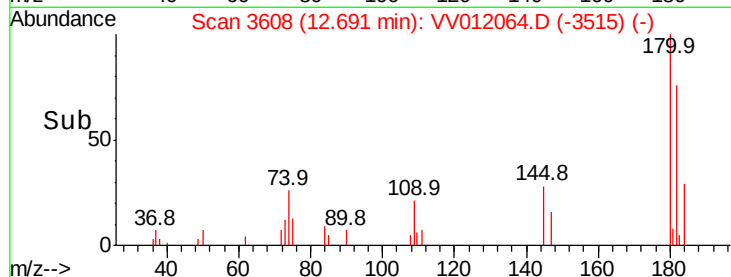
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

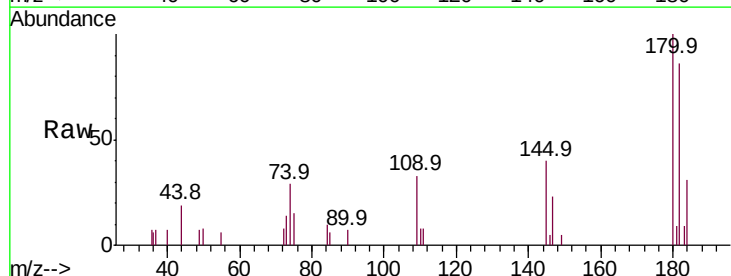
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 0.276 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012064.D
 Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	85.0	76.1	114.1
145	37.5	24.3	36.5#

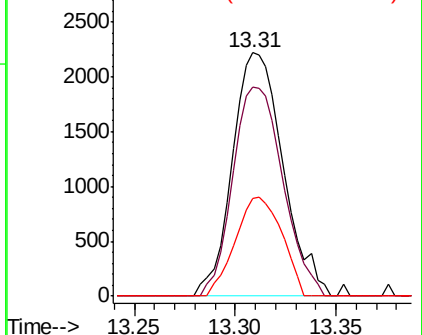
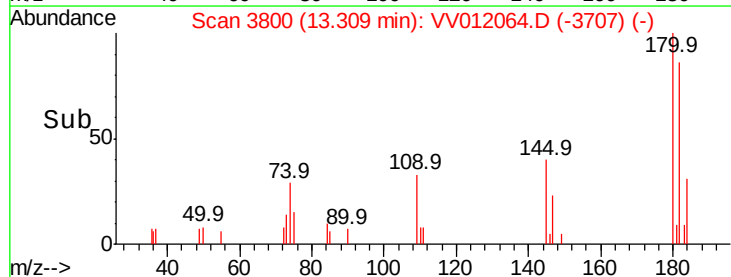


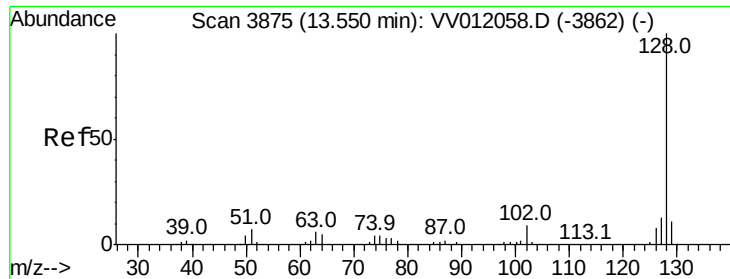
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





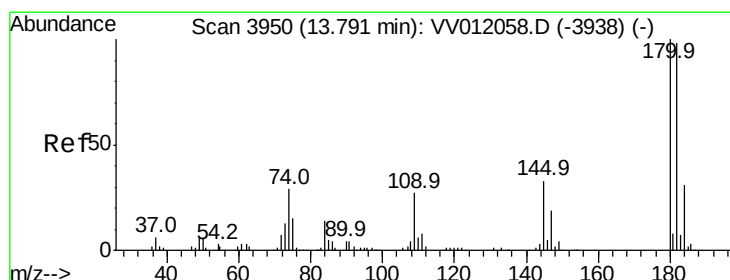
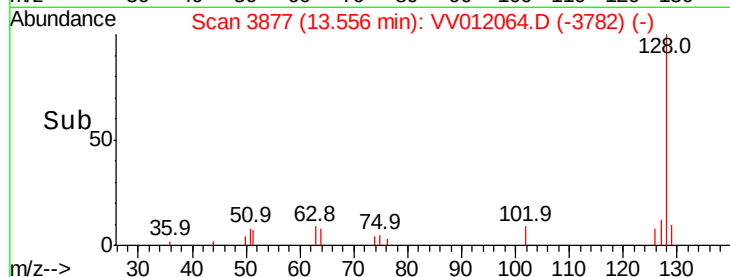
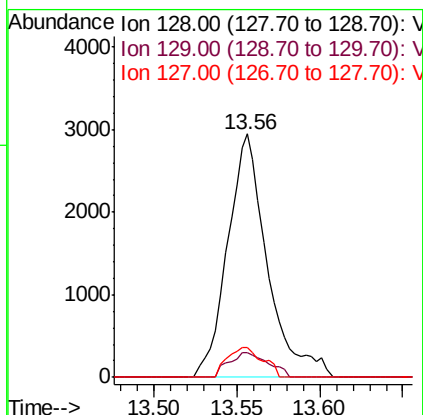
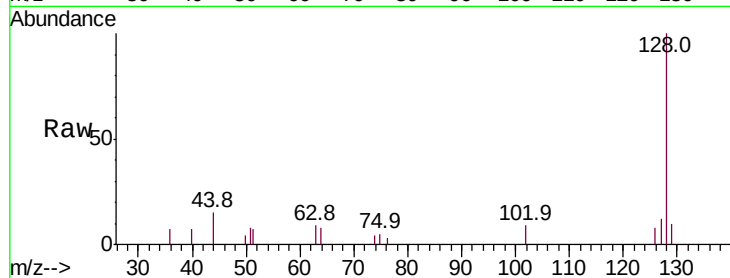
#71
Naphthalene
Concen: 0.250 ug/L
RT: 13.56 min Scan# 3877
Delta R.T. 0.01 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Instrument :
MSVOA_V
ClientSampleId :
MDL02

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.1	9.1	13.7
127	11.0	10.4	15.6

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#72
1,2,3-Trichlorobenzene
Concen: 0.247 ug/L
RT: 13.80 min Scan# 3952
Delta R.T. 0.01 min
Lab File: VV012064.D
Acq: 29 Jul 2019 15:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.9	78.5	117.7
145	30.0	25.8	38.8

