

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121118\
 Data File : VV008896.D
 Acq On : 11 Dec 2018 13:29
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.00g/10.0 mL/MSVOA V/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

sam
 12/12/2018 11:26:29 AM

Quant Time: Dec 12 11:11:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 12 04:31:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	214475	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	186858	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	77994	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	54861	24.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.88%
7) Chloroethane-d5	1.58	69	52372	31.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	127.76%
10) 1,1-Dichloroethene-d2	2.13	63	106565	19.20	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	76.80%
20) 2-Butanone-d5	3.94	46	42552	52.66	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.32%
24) Chloroform-d	4.40	84	124959	24.24	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.96%
26) 1,2-Dichloroethane-d4	5.08	65	72460	25.75	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.00%
29) Benzene-d6	5.10	84	254751	24.41	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.64%
33) 1,2-Dichloropropane-d6	6.12	67	73802	25.26	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.04%
37) Toluene-d8	7.36	98	231279	23.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.80%
38) trans-1,3-Dichloropropene-	7.67	79	31623	24.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.52%
39) 2-Hexanone-d5	8.13	63	27227	50.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	101.74%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	56590	23.09	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.36%
61) 1,2-Dichlorobenzene-d4	11.67	152	71424	24.40	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	4341	1.235 ug/L	87
3) Chloromethane	1.25	50	2891	1.197 ug/L	98
5) Vinyl chloride	1.32	62	3071	1.139 ug/L #	60
6) Bromomethane	1.53	94	1769	1.364 ug/L	96
8) Chloroethane	1.60	64	2399	1.588 ug/L #	81
9) Trichlorofluoromethane	1.77	101	6403	1.386 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4415	1.394 ug/L	87
12) 1,1-Dichloroethene	2.14	96	3996	1.445 ug/L #	1
13) Acetone	2.20	43	3248	2.728 ug/L	90
14) Carbon disulfide	2.32	76	9339	1.052 ug/L	100
15) Methyl Acetate	2.46	43	1764	1.168 ug/L #	83
16) Methylene chloride	2.54	84	9610	2.661 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	6720	1.070 ug/L	94
18) trans-1,2-Dichloroethene	2.79	96	3335	1.116 ug/L	97
19) 1,1-Dichloroethane	3.23	63	5273	1.089 ug/L	97
21) 2-Butanone	4.05	43	1714m	1.536 ug/L	
22) cis-1,2-Dichloroethene	3.96	96	3175	1.019 ug/L	94

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Manual Integrations
 APPROVED

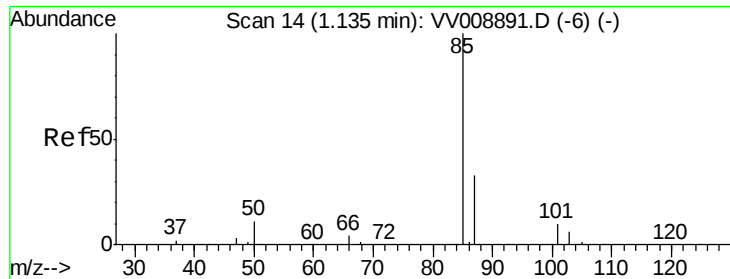
sam
 12/12/2018 11:26:29 AM

Quant Time: Dec 12 11:11:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 12 04:31:38 2018
 Response via : Initial Calibration

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

23) Bromochloromethane	4.31	128	1529	1.041	ug/L	89
25) Chloroform	4.43	83	7454	1.434	ug/L #	68
27) 1,2-Dichloroethane	5.18	62	3829	1.081	ug/L #	94
30) Cyclohexane	4.73	56	4973	1.057	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	5209	1.081	ug/L #	76
32) Carbon tetrachloride	4.88	117	4850	1.103	ug/L	98
34) Benzene	5.15	78	12546	1.121	ug/L	100
35) Trichloroethene	5.96	95	3889	1.152	ug/L	95
36) Methylcyclohexane	6.18	83	6034	1.121	ug/L	97
40) 1,2-Dichloropropane	6.22	63	3129	1.165	ug/L #	85
41) Bromodichloromethane	6.56	83	3830	1.082	ug/L #	92
42) cis-1,3-Dichloropropene	7.07	75	4424	1.125	ug/L	98
43) 4-Methyl-2-pentanone	7.28	43	5017	2.763	ug/L	97
44) Toluene	7.43	91	13342	1.136	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	3642	1.062	ug/L	99
46) 1,1,2-Trichloroethane	7.89	97	2361	1.055	ug/L	87
47) Tetrachloroethene	8.02	164	3007	1.096	ug/L	96
49) 2-Hexanone	8.19	43	5697	3.792	ug/L #	87
50) Dibromochloromethane	8.29	129	2924	1.139	ug/L	99
51) 1,2-Dibromoethane	8.40	107	2258	1.004	ug/L #	99
52) Chlorobenzene	8.93	112	8657	1.132	ug/L	93
53) Ethylbenzene	9.06	91	13201	1.036	ug/L	99
54) m,p-Xylene	9.19	106	4883	1.013	ug/L	96
55) o-xylene	9.59	106	4420	0.986	ug/L	93
56) Styrene	9.61	104	6611	0.915	ug/L	97
57) Isopropylbenzene	9.98	105	11838	0.972	ug/L	96
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	2869	1.185	ug/L #	95
59) 1,2,3-Trichloropropane	10.32	75	2471	1.180	ug/L	98
62) Bromoform	9.78	173	1387	0.985	ug/L #	94
63) 1,3-Dichlorobenzene	11.23	146	5521	1.099	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	5918	1.144	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	5488	1.185	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.48	75	407m	1.072	ug/L	
67) 1,3,5-Trichlorobenzene	12.70	180	3339	0.920	ug/L #	92
68) 1,2,4-trichlorobenzene	13.31	180	2335	0.918	ug/L #	83
69) Naphthalene	13.56	128	2799	0.639	ug/L #	92
70) 1,2,3-Trichlorobenzene	13.80	180	1685	0.717	ug/L #	83

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



#2

Dichlorodifluoromethane

Concen: 1.235 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 4341

Ion Ratio Lower Upper

85 100

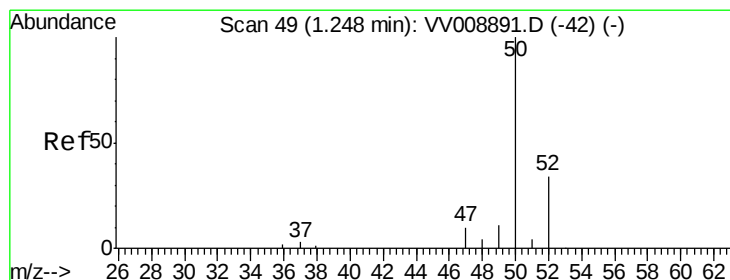
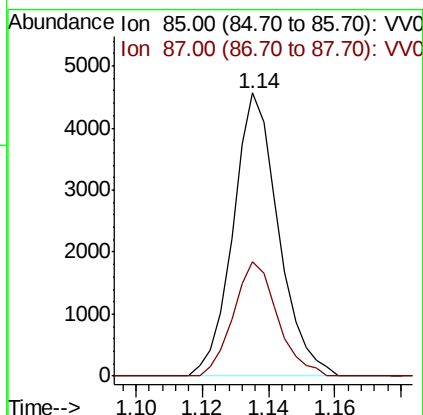
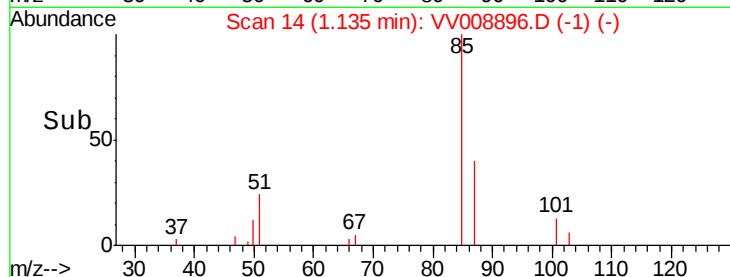
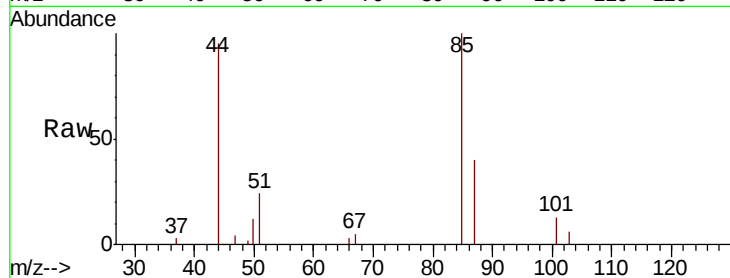
87 39.2 22.4 41.6

Manual Integrations

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#3

Chloromethane

Concen: 1.197 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV008896.D

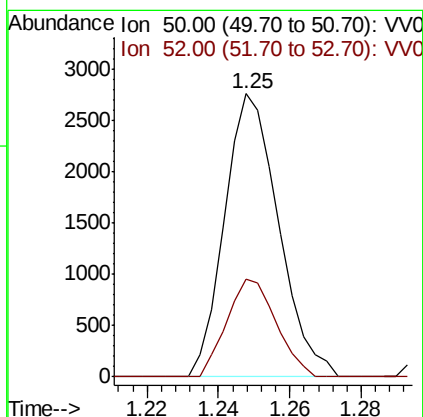
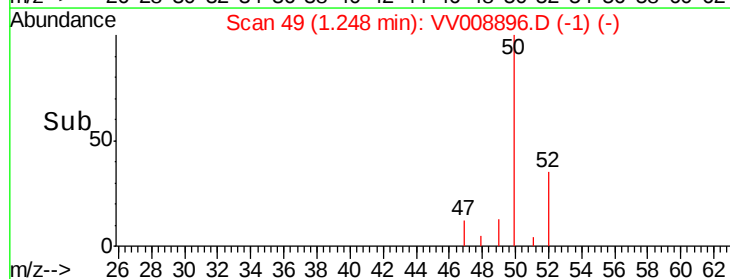
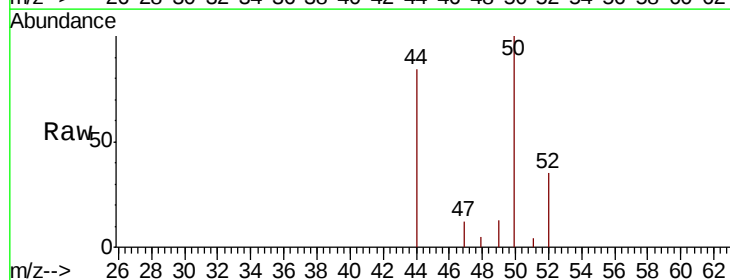
Acq: 11 Dec 2018 13:29

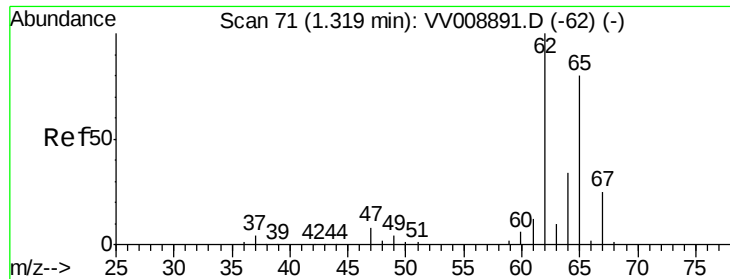
Tgt Ion: 50 Resp: 2891

Ion Ratio Lower Upper

50 100

52 34.6 23.2 43.2





#5

Vinyl chloride

Concen: 1.139 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 62 Resp: 3071

Ion Ratio Lower Upper

62 100

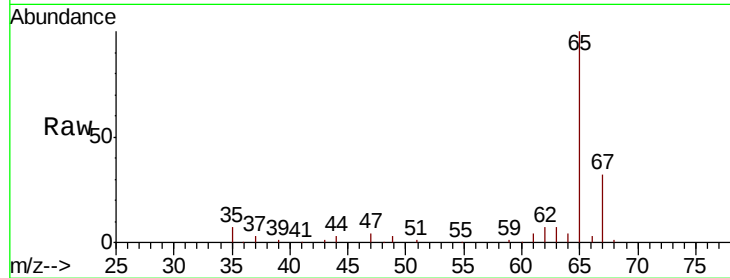
64 56.1 23.3 43.3#

Manual Integrations

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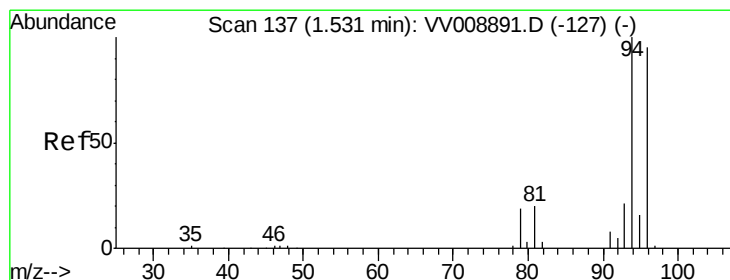
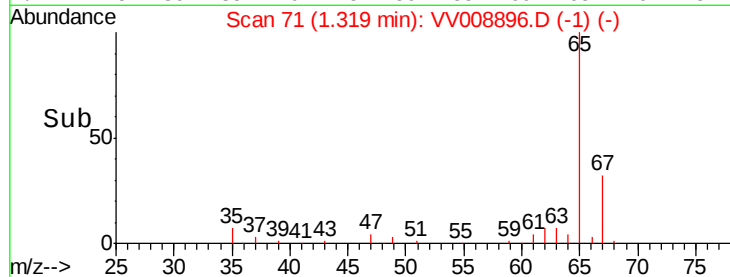
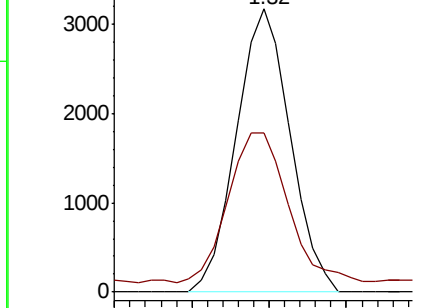
sam

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Abundance Ion 62.00 (61.70 to 62.70): VV008891.D (-62) (-)

Ion 64.00 (63.70 to 64.70): VV008896.D (-34) (-)



#6

Bromomethane

Concen: 1.364 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV008896.D

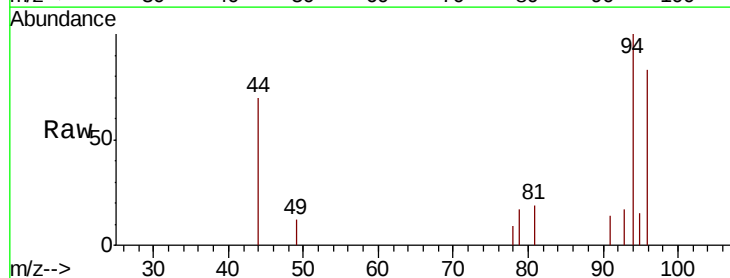
Acq: 11 Dec 2018 13:29

Tgt Ion: 94 Resp: 1769

Ion Ratio Lower Upper

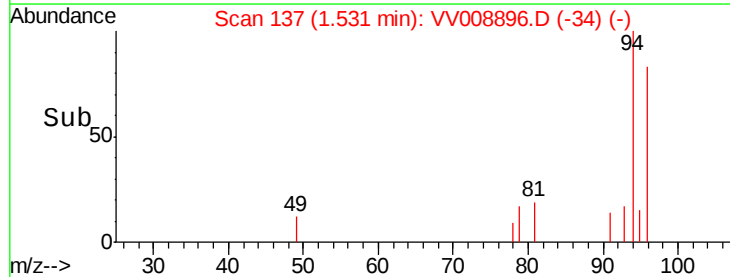
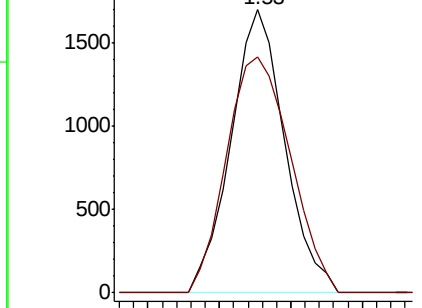
94 100

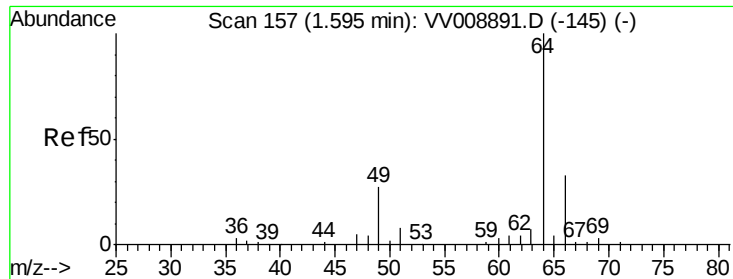
96 99.2 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV008891.D (-127) (-)

Ion 96.00 (95.70 to 96.70): VV008896.D (-34) (-)





#8

Chloroethane

Concen: 1.588 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 64 Resp: 2399

Ion Ratio Lower Upper

64 100

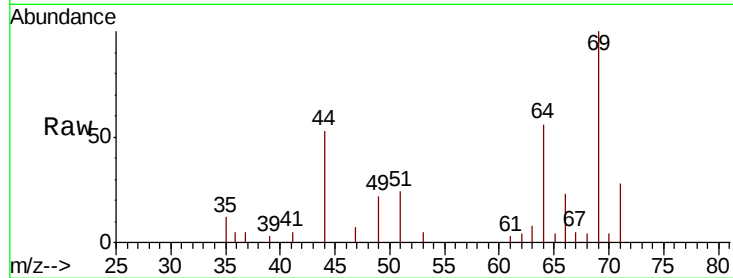
66 42.2 22.2 41.2#

Manual Integrations

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Abundance Ion 64.00 (63.70 to 64.70): VV008896.D (-145) (-)

Ion 66.00 (65.70 to 66.70): VV008896.D (-145) (-)

1.60

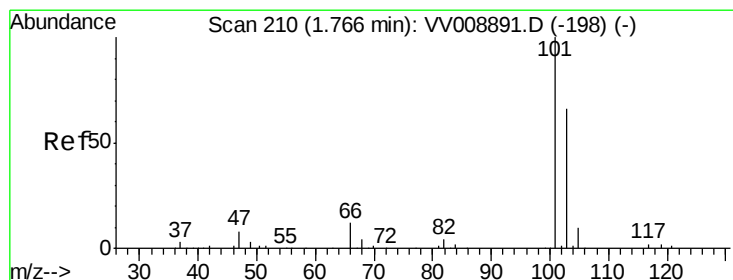
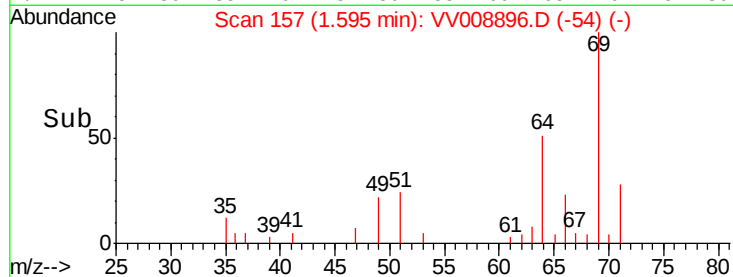
1500

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 1.386 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV008896.D

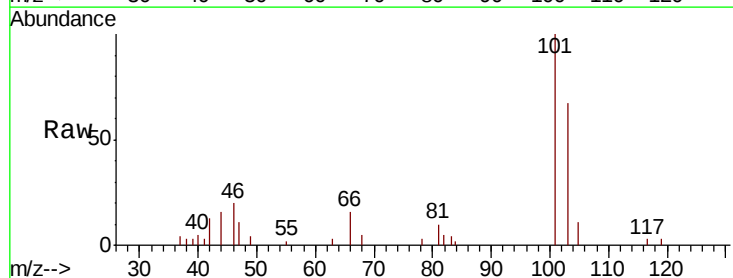
Acq: 11 Dec 2018 13:29

Tgt Ion: 101 Resp: 6403

Ion Ratio Lower Upper

101 100

103 65.7 44.8 83.2



Abundance Ion 101.00 (100.70 to 101.70): VV008896.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV008896.D (-198) (-)

1.77

5000

4000

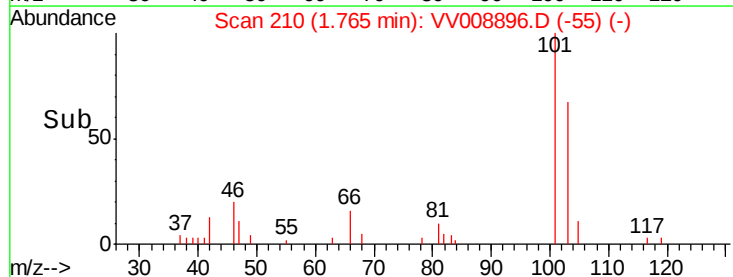
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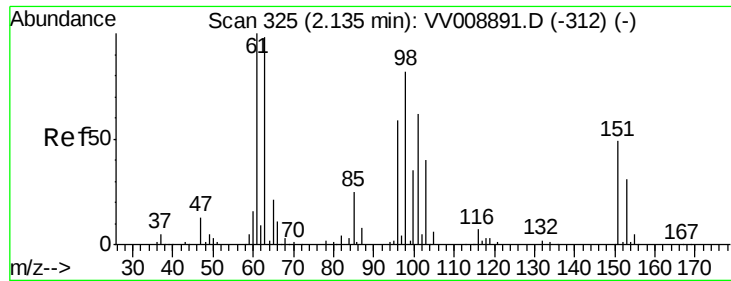
2000

1000

0

Time-->





#11

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

Concen: 1.394 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

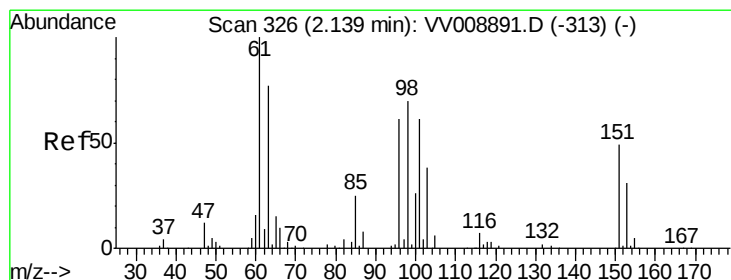
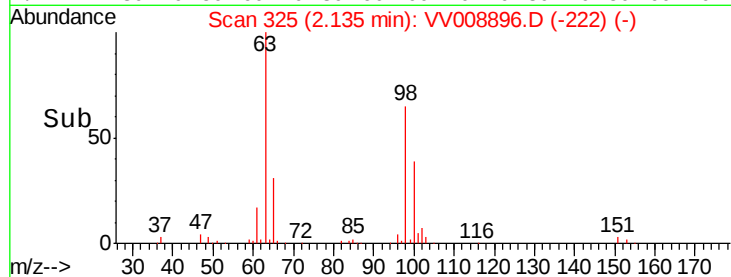
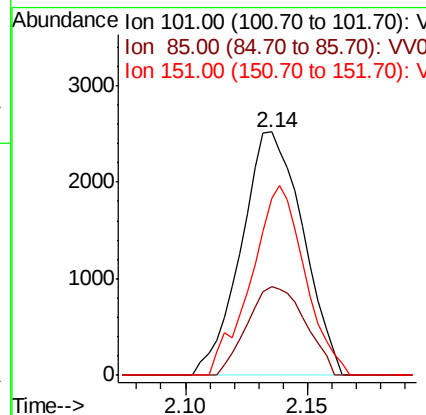
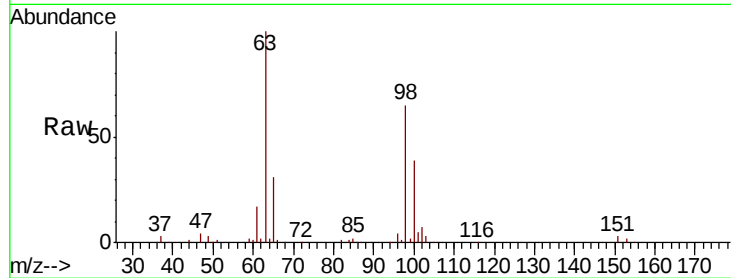
ClientSampleId :

MDL04

Tot Ion:	101	Resp:	4415
Ion Ratio	Lower	Upper	
101	100		
85	34.1	32.5	48.7
151	67.8	64.2	96.4

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#12

1,1-Dichloroethene

Concen: 1.445 ug/L

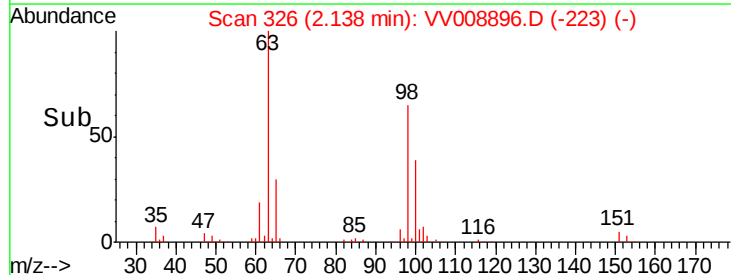
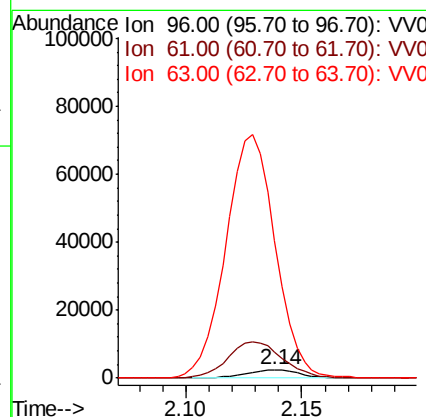
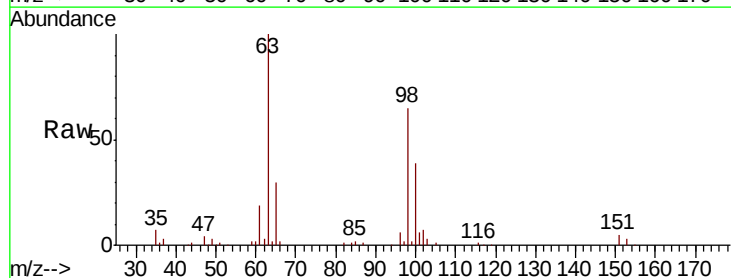
RT: 2.14 min Scan# 326

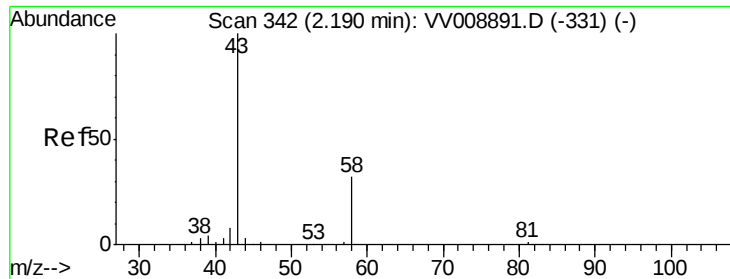
Delta R.T. -0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Tgt Ion:	96	Resp:	3996
Ion Ratio	Lower	Upper	
96	100		
61	321.3	114.0	211.6#
63	1678.8	82.4	153.0#





#13

Acetone

Concen: 2.728 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 43 Resp: 3248

Ion Ratio Lower Upper

43 100

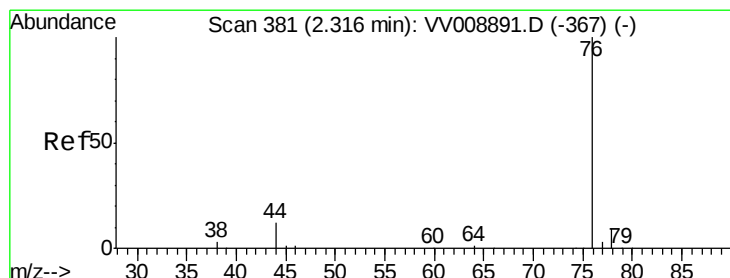
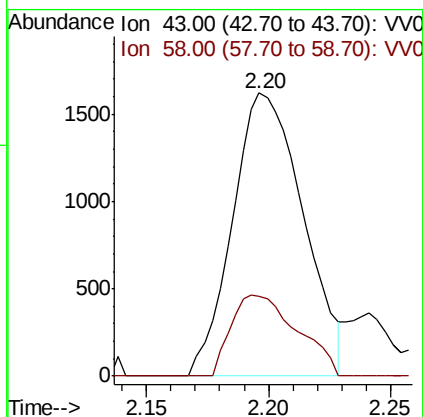
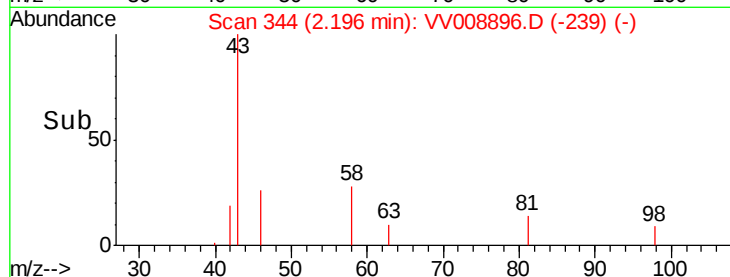
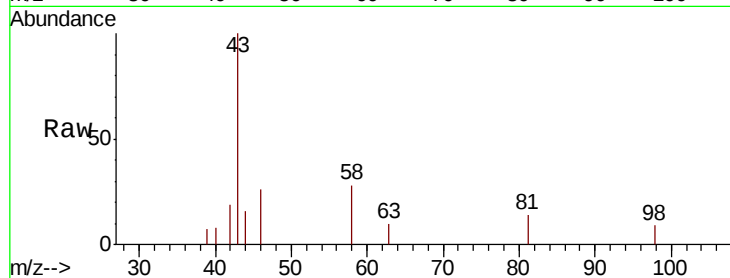
58 26.8 0.0 65.4

Manual Integrations

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#14

Carbon disulfide

Concen: 1.052 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV008896.D

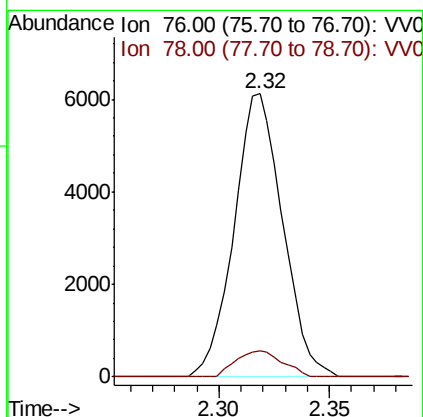
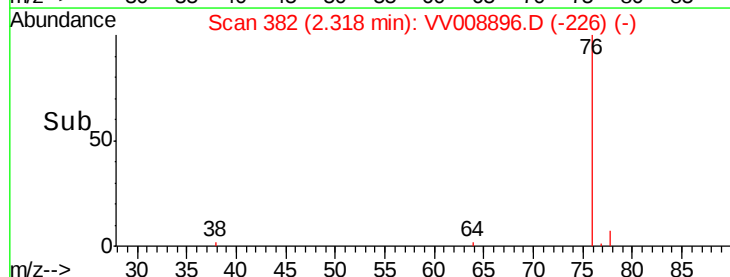
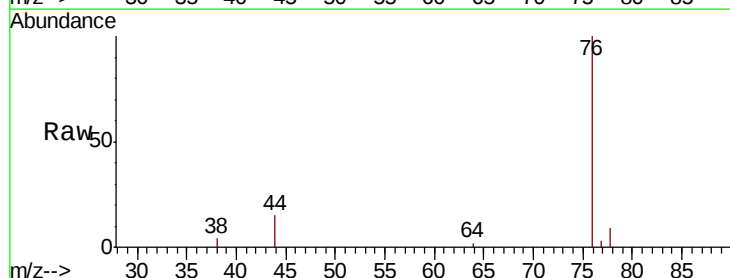
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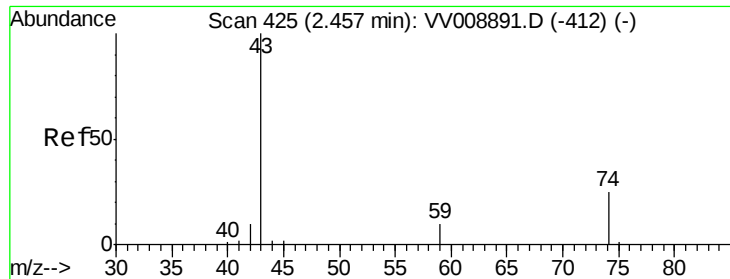
Tgt Ion: 76 Resp: 9339

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0





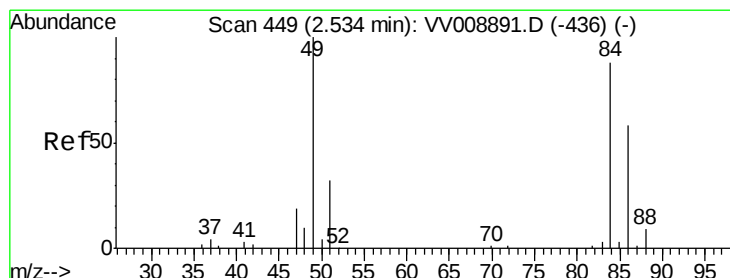
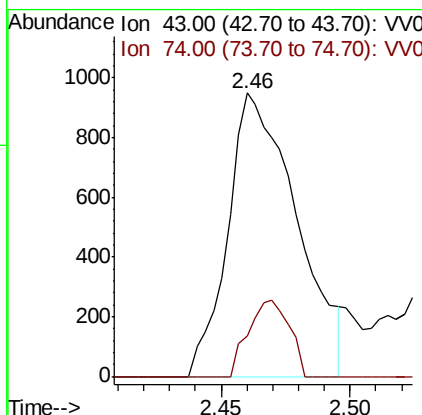
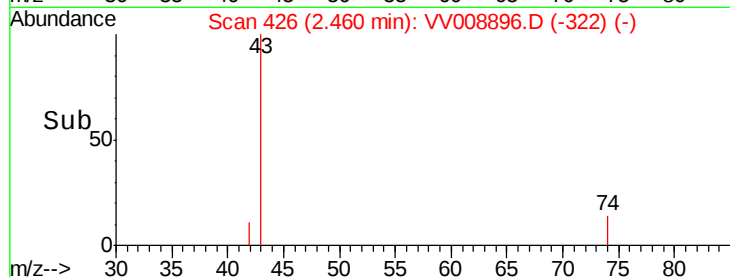
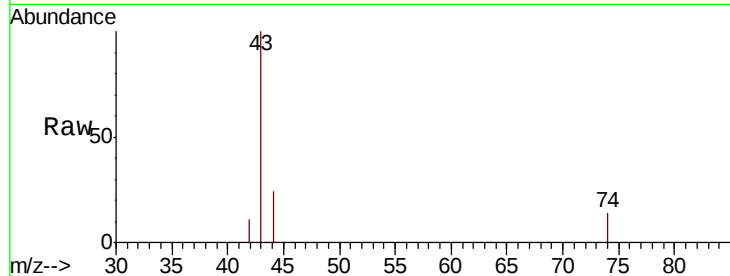
#15
Methvl Acetate
Concen: 1.168 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion: 43 Resp: 1764
Ion Ratio Lower Upper
43 100
74 16.0 19.7 29.5#

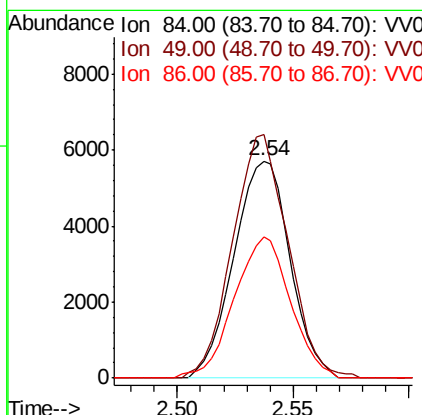
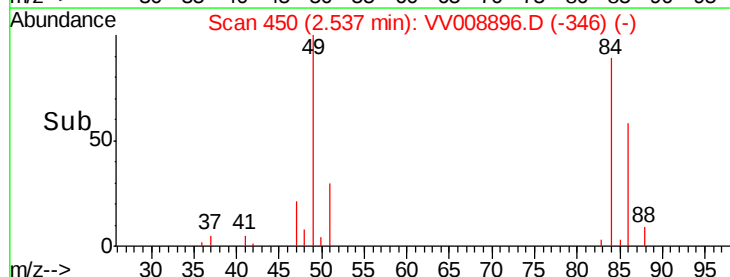
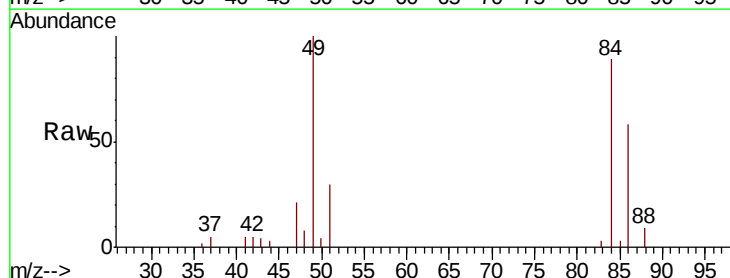
Manual Integrations
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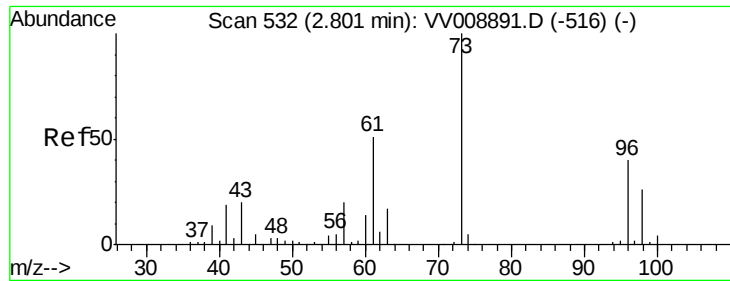
sam
12/12/2018 11:26:29 AM



#16
Methylene chloride
Concen: 2.661 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion: 84 Resp: 9610
Ion Ratio Lower Upper
84 100
49 112.0 80.5 149.5
86 64.9 45.5 84.5





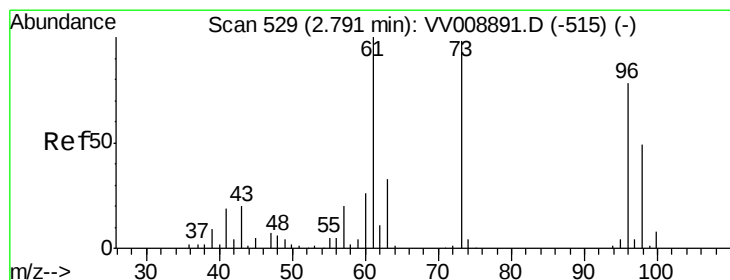
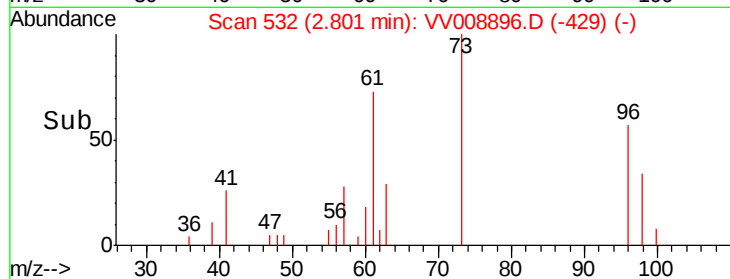
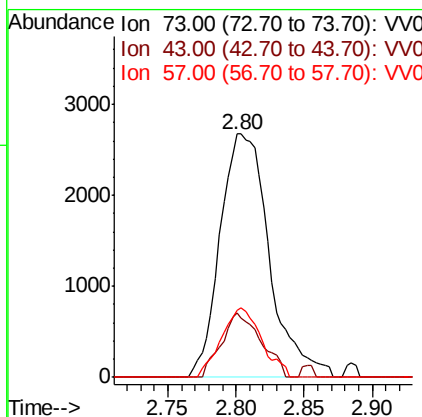
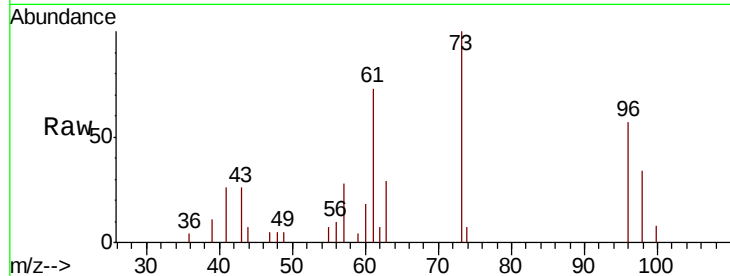
#17
Methvl tert-butvl Ether
Concen: 1.070 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
73	100		
43	21.2	14.9	22.3
57	23.1	16.0	24.0

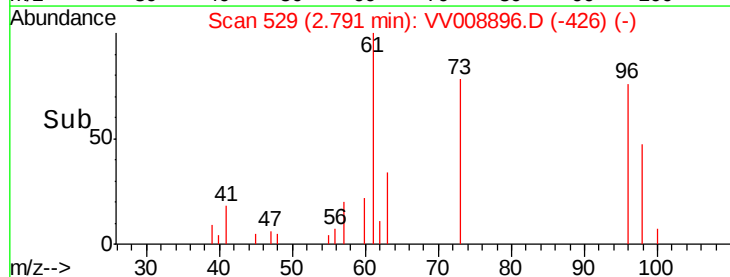
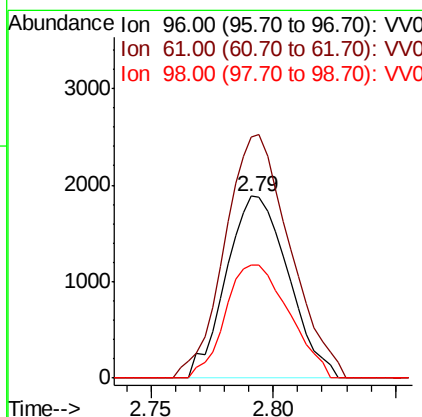
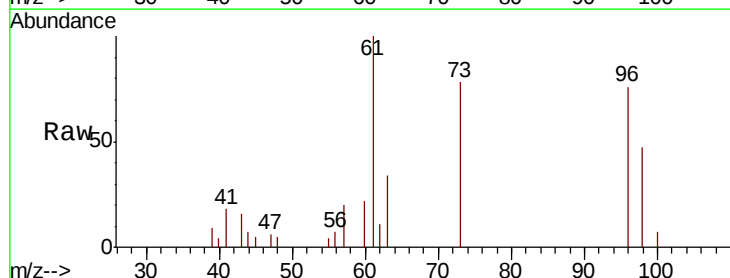
Manual Integrations
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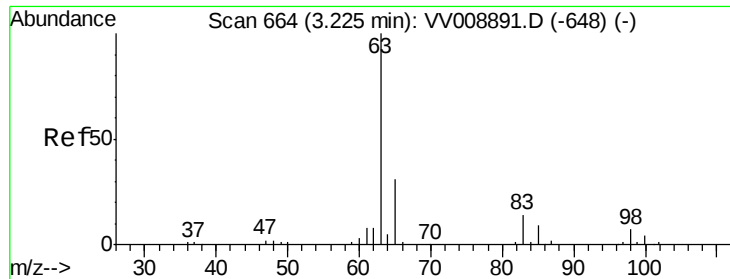
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#18
trans-1,2-Dichloroethene
Concen: 1.116 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.4	94.6	175.8
98	61.9	45.3	84.1





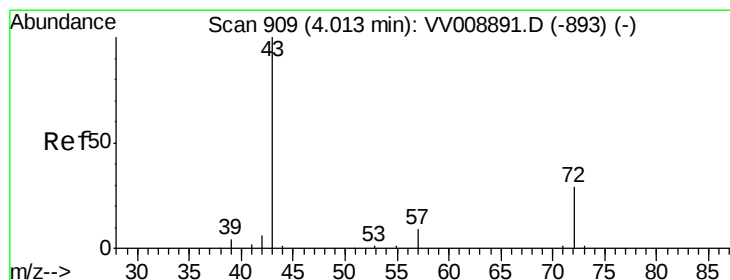
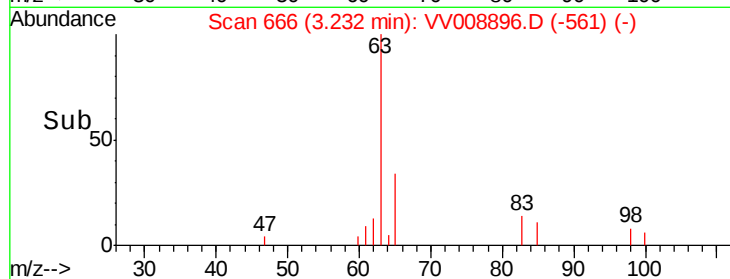
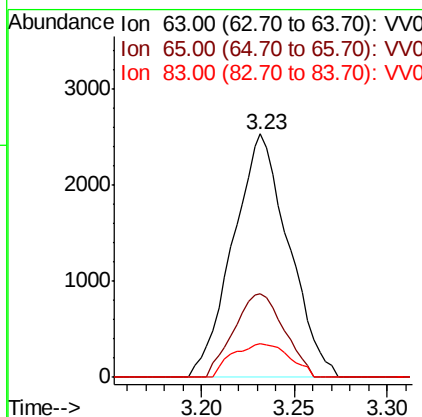
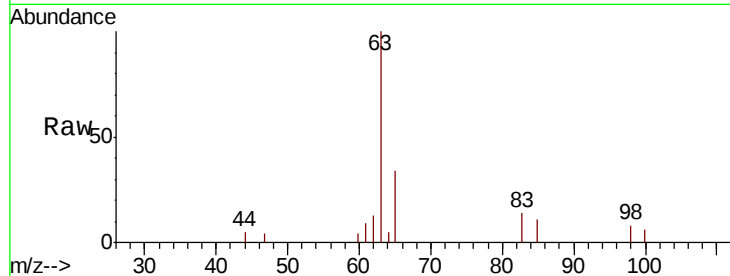
#19
 1,1-Dichloroethane
 Concen: 1.089 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
63	100		
65	34.4	22.7	42.1
83	14.1	10.2	19.0

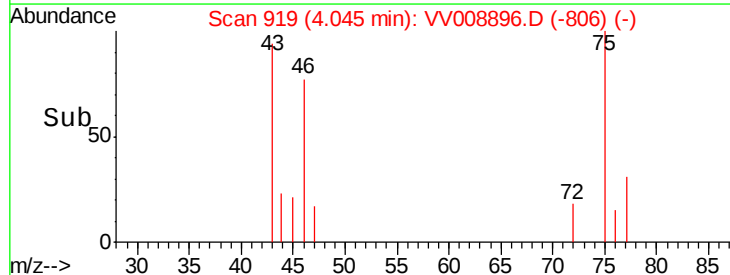
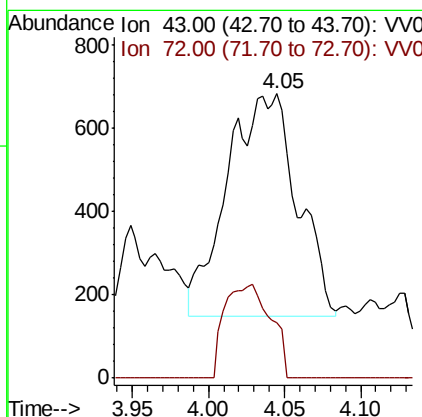
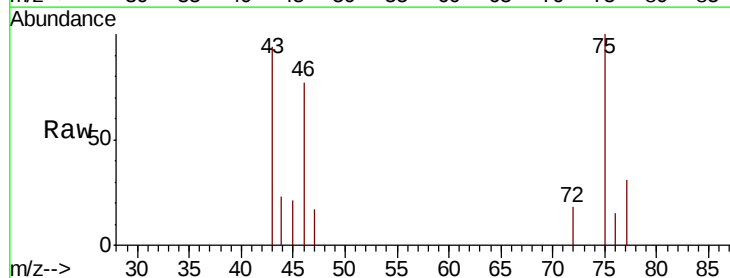
Manual Integrations
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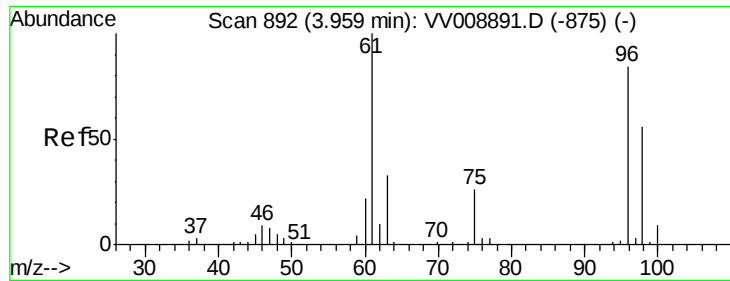
sam
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#21
 2-Butanone
 Concen: 1.536 ug/L m
 RT: 4.05 min Scan# 919
 Delta R.T. 0.03 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	13.7	41.1#





#22

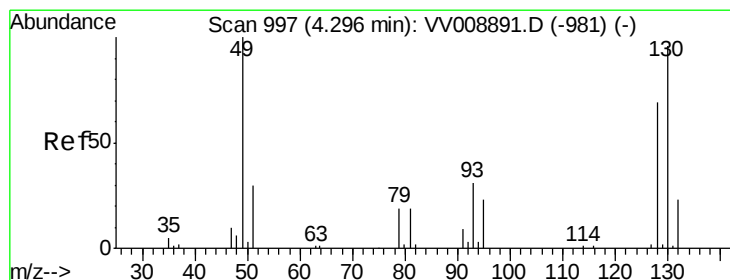
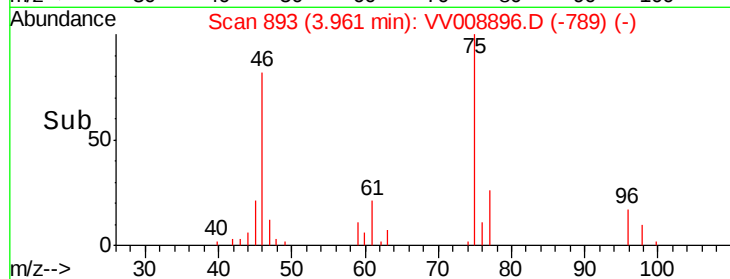
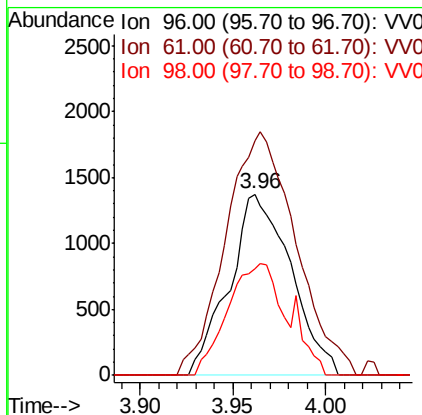
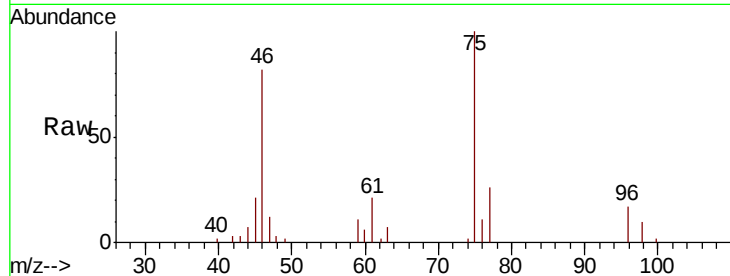
cis-1,2-Dichloroethene
Concen: 1.019 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
96	100		
61	129.0	86.2	160.0
98	58.5	45.6	84.6

Manual Integrations
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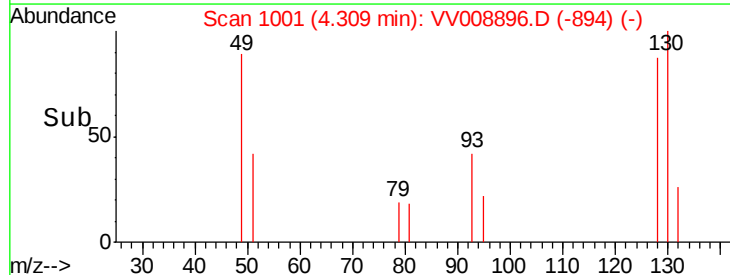
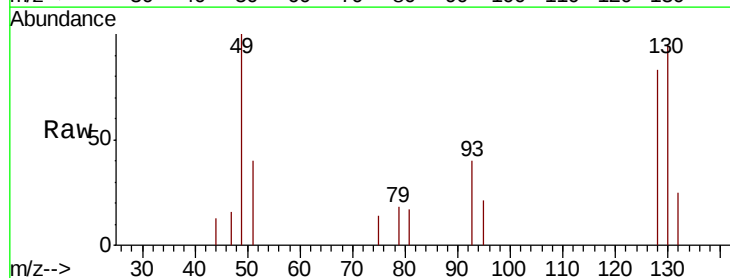
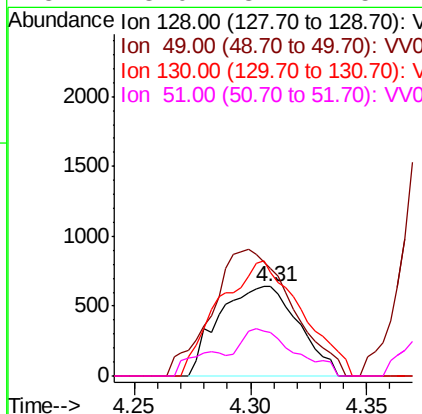
sam
12/12/2018 11:26:29 AM

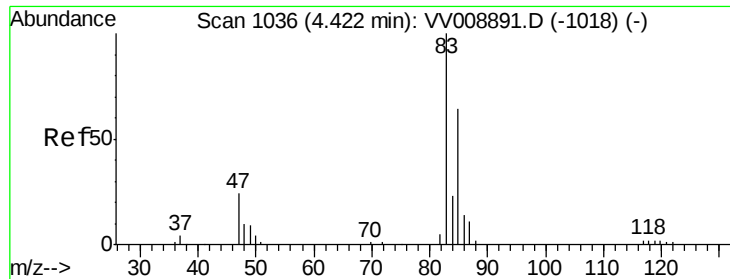


#23

Bromochloromethane
Concen: 1.041 ug/L
RT: 4.31 min Scan# 1001
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion	Ratio	Lower	Upper
128	100		
49	120.6	93.8	174.2
130	115.1	90.4	168.0
51	48.0	34.2	51.4





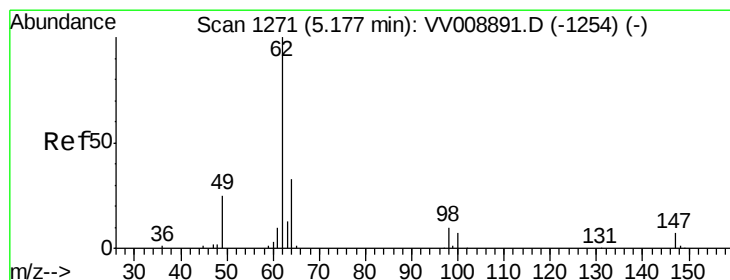
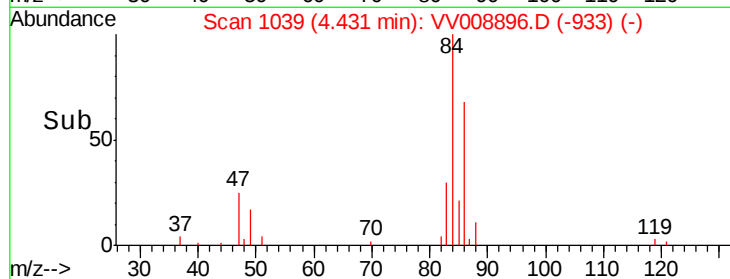
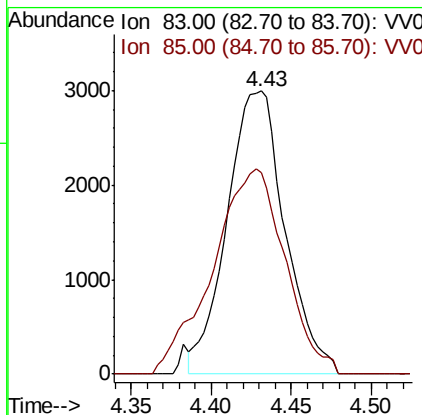
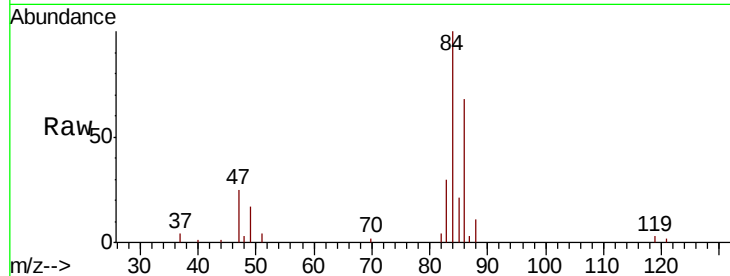
#25
Chloroform
Concen: 1.434 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	83	85	Ratio	Lower	Upper
7454	100	90.5		45.6	84.8#

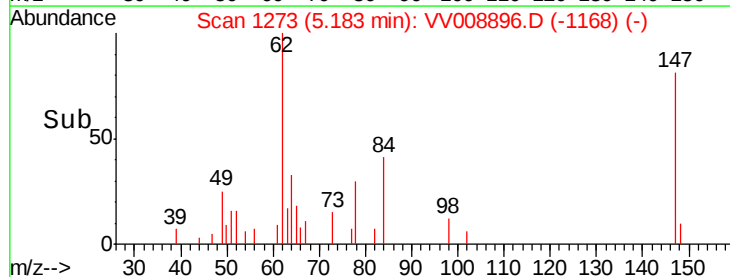
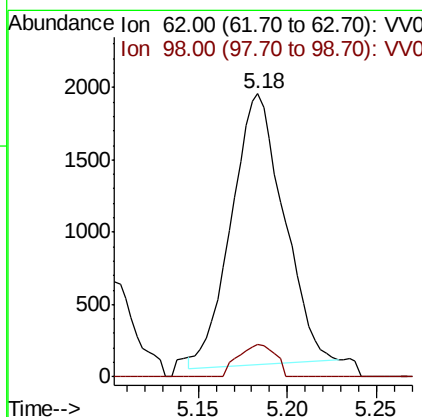
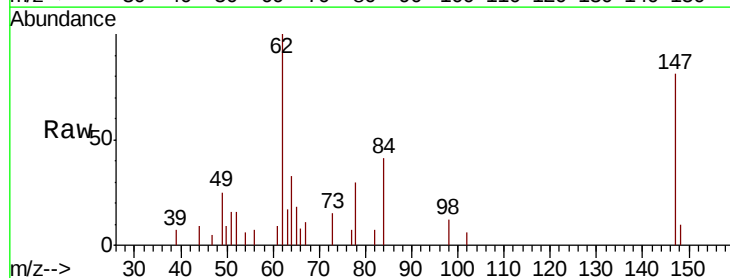
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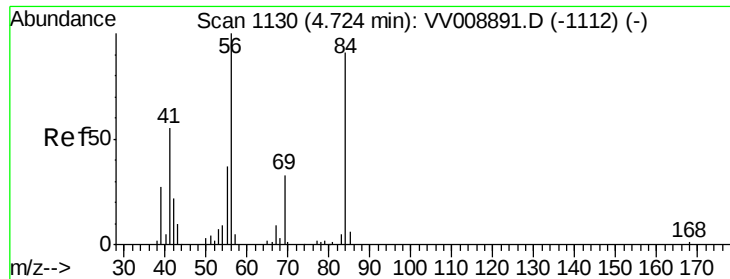
sam
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#27
1,2-Dichloroethane
Concen: 1.081 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion	62	98	Ratio	Lower	Upper
3829	100	11.5		7.4	11.0#





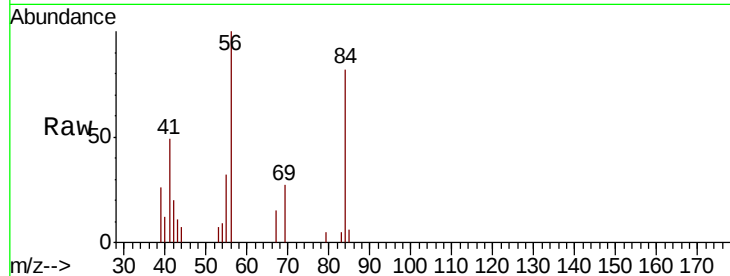
#30
Cvclohexane
Concen: 1.057 ug/L
RT: 4.73 min Scan# 1132
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.0	25.8	38.8
84	92.3	73.0	109.6

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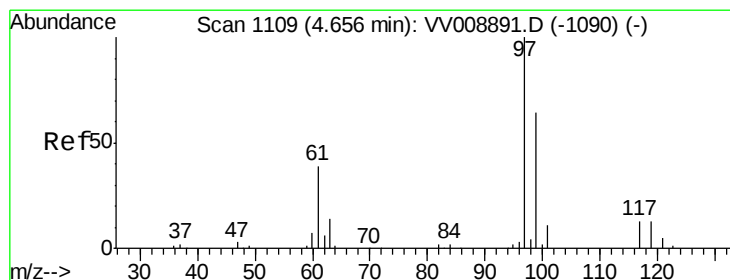
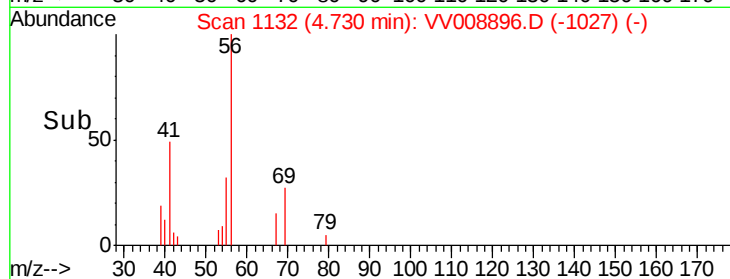
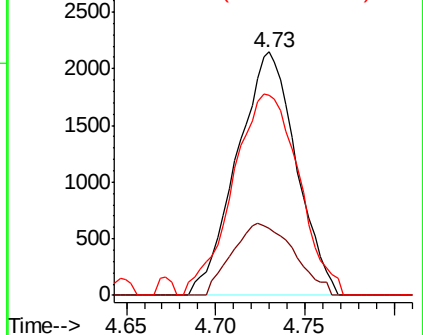


Abundance

Ion 56.00 (55.70 to 56.70): VV008896.D (-1027) (-)

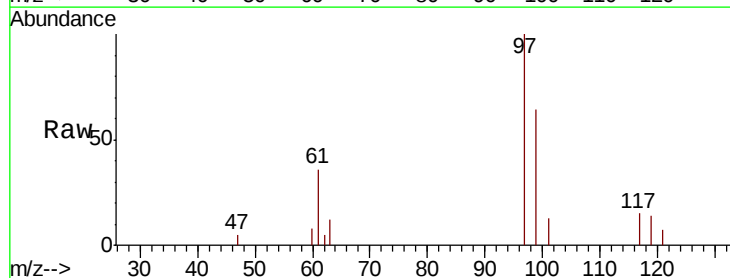
Ion 69.00 (68.70 to 69.70): VV008896.D (-1027) (-)

Ion 84.00 (83.70 to 84.70): VV008896.D (-1027) (-)



#31
1,1,1-Trichloroethane
Concen: 1.081 ug/L
RT: 4.66 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	46.4	51.9	77.9#
61	25.8	33.1	49.7#

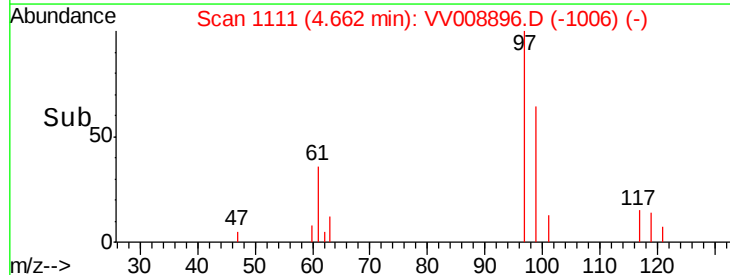
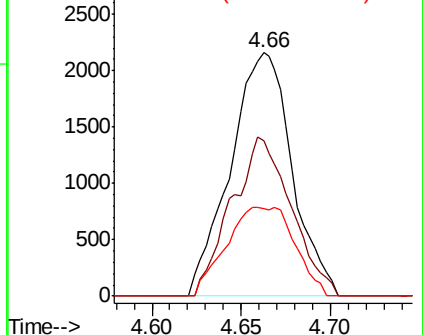


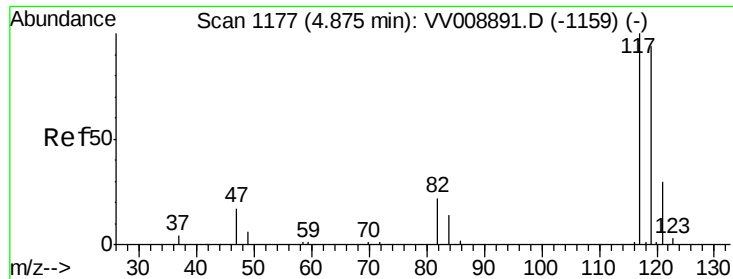
Abundance

Ion 97.00 (96.70 to 97.70): VV008896.D (-1006) (-)

Ion 99.00 (98.70 to 99.70): VV008896.D (-1006) (-)

Ion 61.00 (60.70 to 61.70): VV008896.D (-1006) (-)





#32

Carbon tetrachloride

Concen: 1.103 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion:117 Resp: 4850

Ion Ratio Lower Upper

117 100

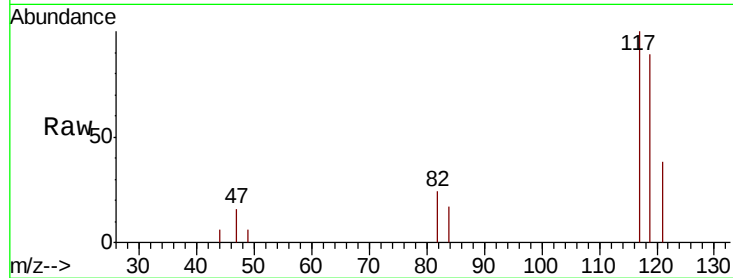
119 94.0 77.1 115.7

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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

2500

2000

1500

1000

500

0

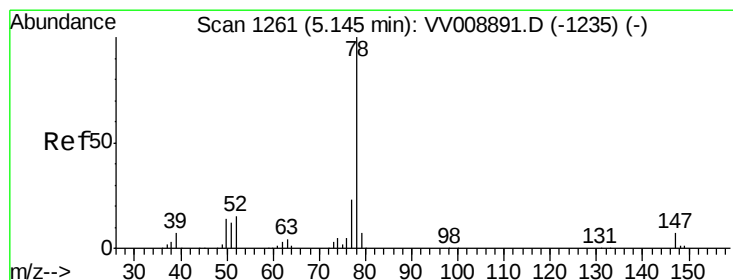
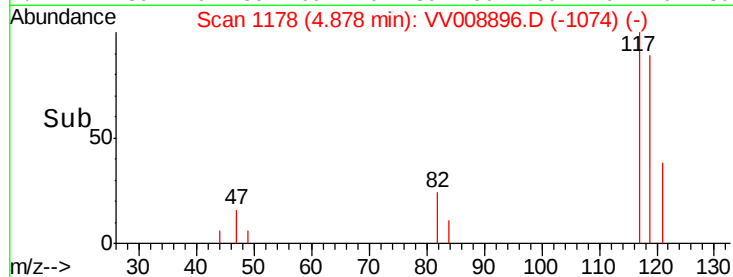
4.80

4.85

4.90

4.95

Time-->



#34

Benzene

Concen: 1.121 ug/L

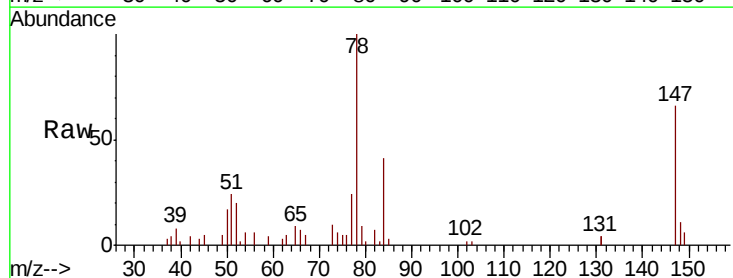
RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Tgt Ion: 78 Resp: 12546



Abundance Ion 78.00 (77.70 to 78.70): VV0

6000

5000

4000

3000

2000

1000

0

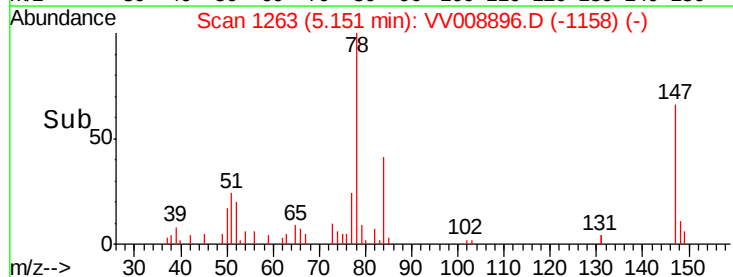
5.10

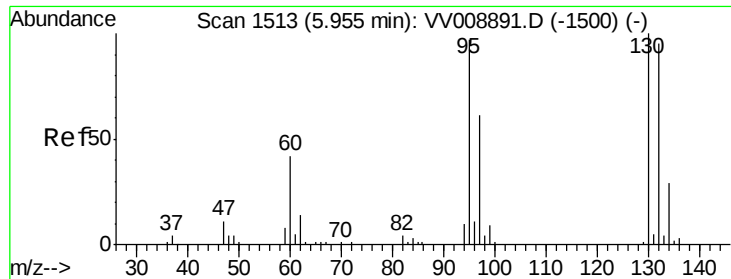
5.15

5.20

5.25

Time-->





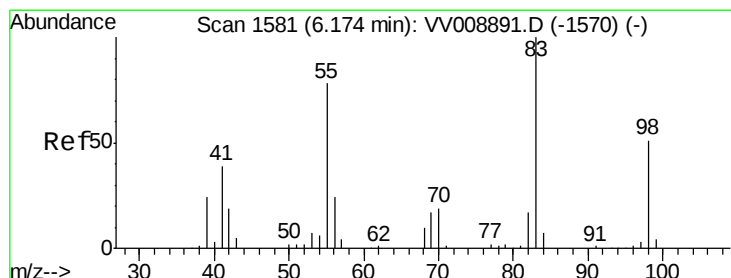
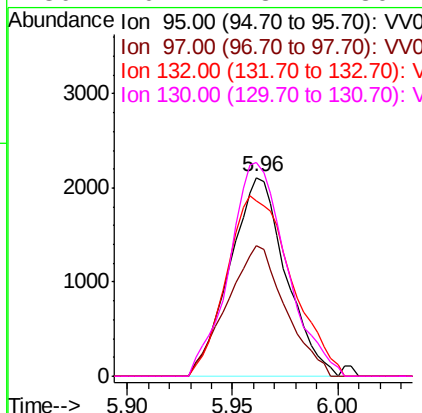
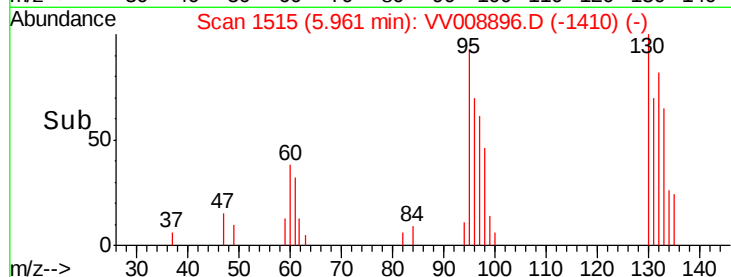
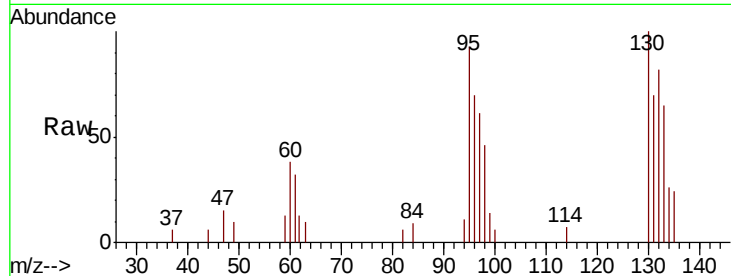
#35
 Trichloroethene
 Concen: 1.152 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.01 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
95	100		
97	68.3	45.3	84.1
132	105.5	70.0	130.0
130	110.4	73.4	136.4

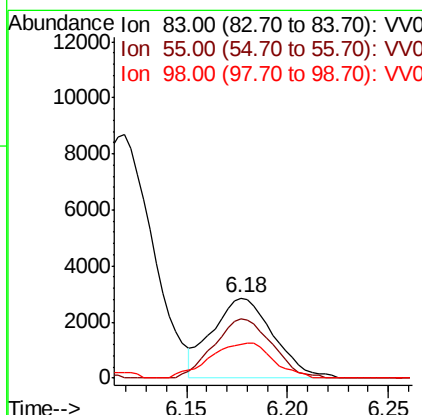
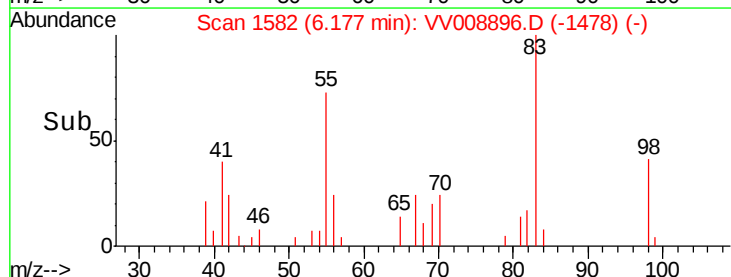
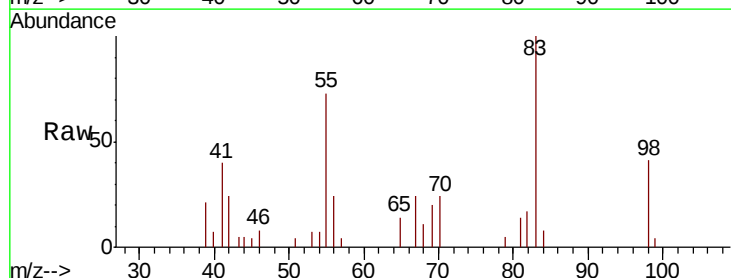
Manual Integrations
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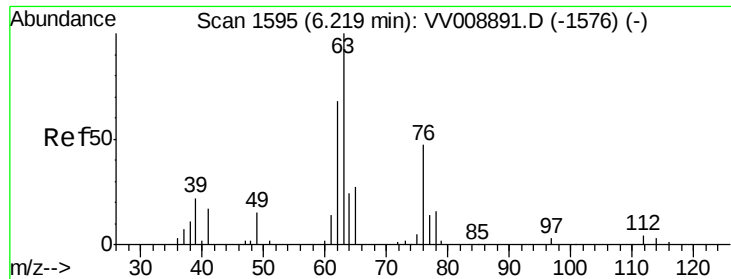
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#36
 Methylcyclohexane
 Concen: 1.121 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion	Ratio	Lower	Upper
83	100		
55	70.1	58.2	87.2
98	44.7	37.8	56.8





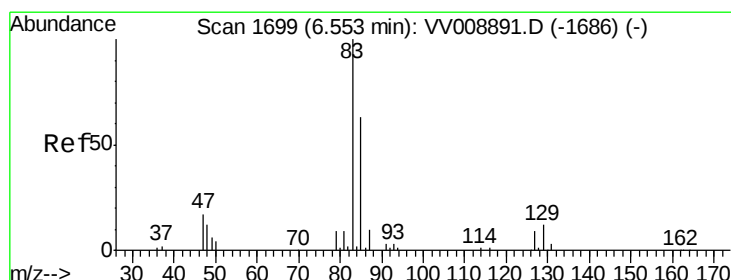
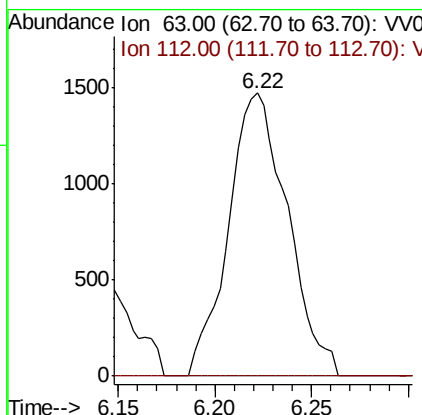
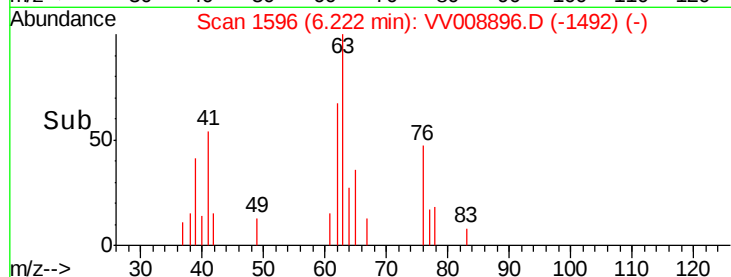
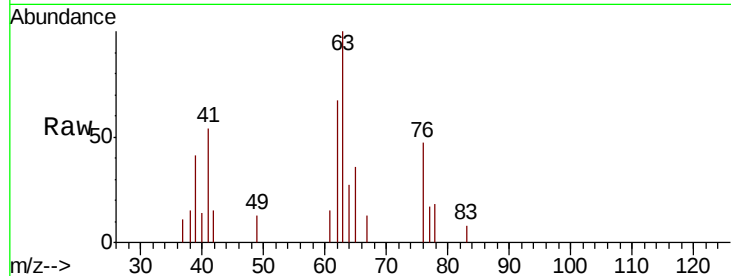
#40
 1,2-Dichloropropane
 Concen: 1.165 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion: 63 Resp: 3129
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.8 5.8#

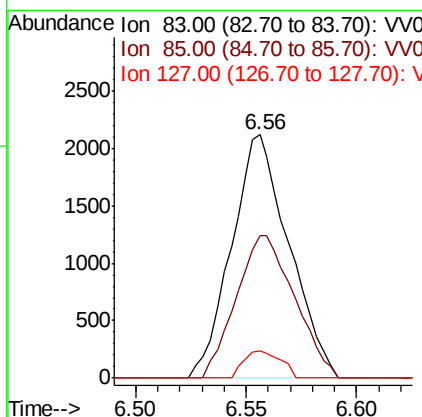
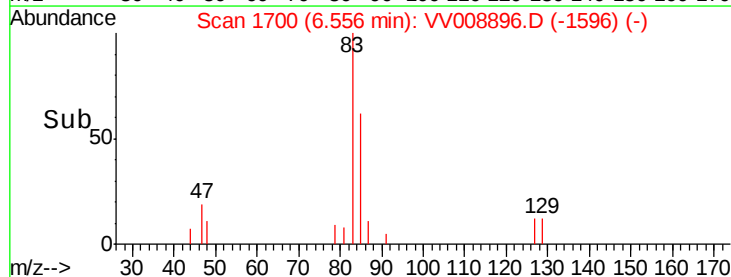
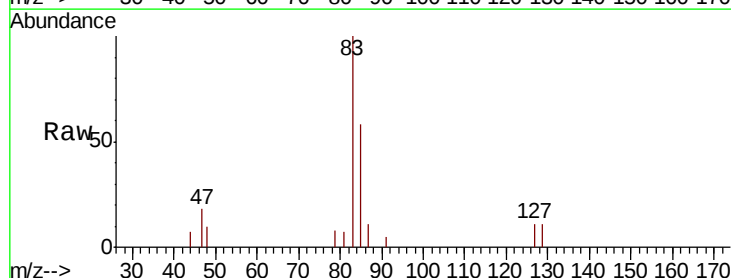
Manual Integrations
 APPROVED

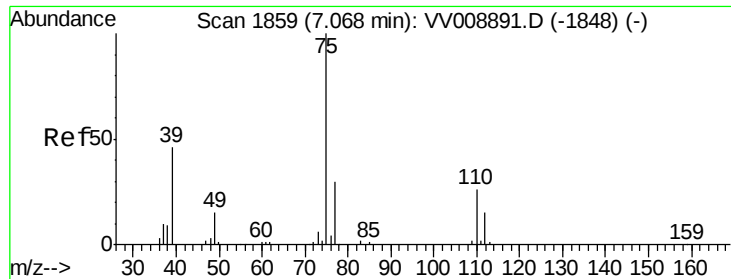
sam
 12/12/2018 11:26:29 AM



#41
 Bromodichloromethane
 Concen: 1.082 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion: 83 Resp: 3830
 Ion Ratio Lower Upper
 83 100
 85 58.4 45.3 84.1
 127 11.0 7.2 10.8#





#42

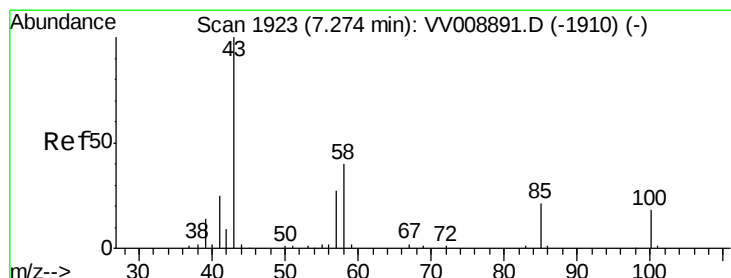
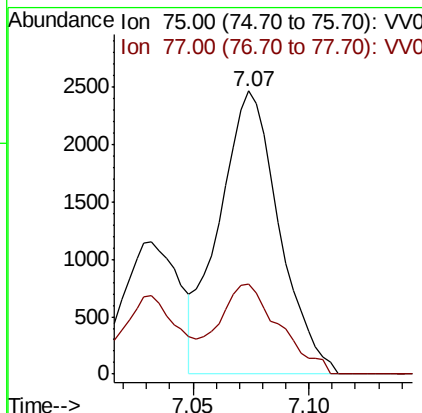
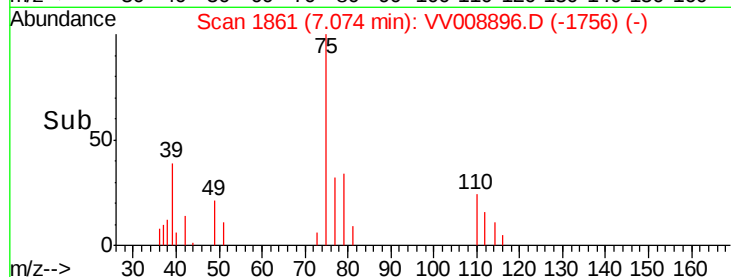
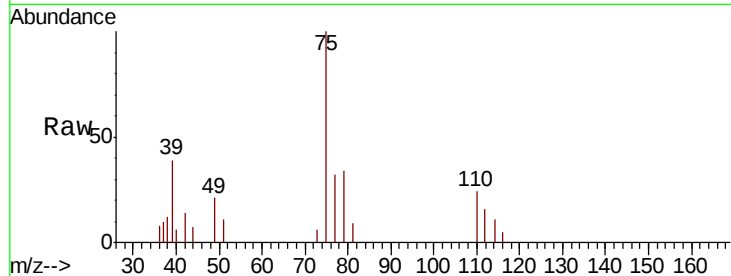
cis-1,3-Dichloropropene
Concen: 1.125 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	75	Resp	4424
Ion Ratio	Lower	Upper	
75	100		
77	31.8	21.3	39.6

Manual Integrations
APPROVED

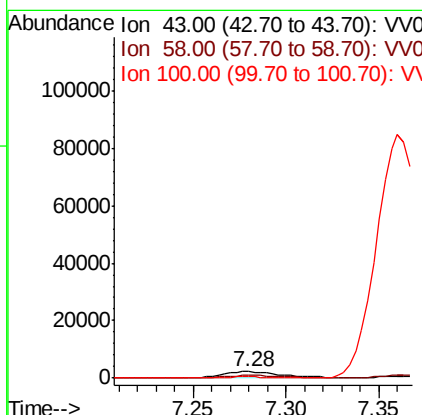
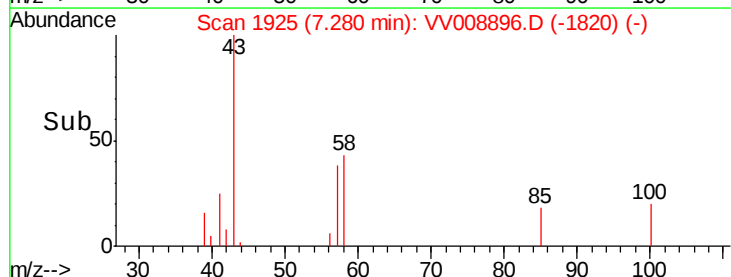
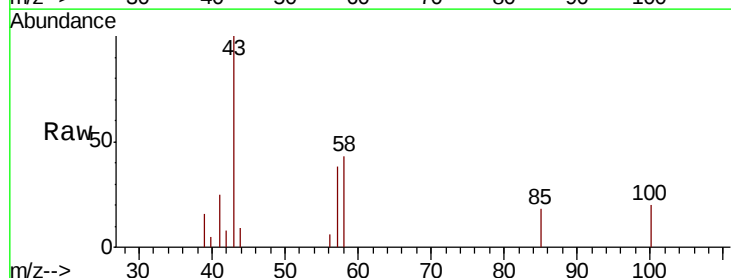
sam
12/12/2018 11:26:29 AM

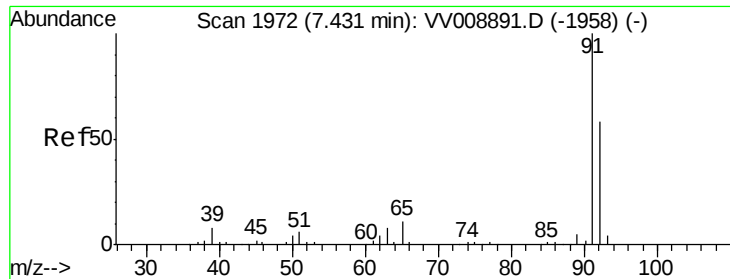


#43

4-Methyl-2-pentanone
Concen: 2.763 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion	43	Resp	5017
Ion Ratio	Lower	Upper	
43	100		
58	41.6	32.2	48.4
100	15.1	13.8	20.8





#44

Toluene

Concen: 1.136 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 13342

Ion Ratio Lower Upper

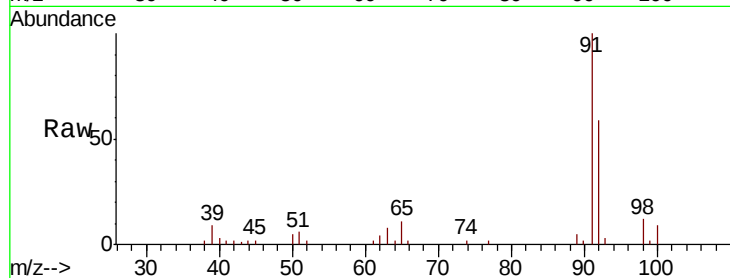
91 100

92 58.8 41.7 77.5

Manual Integrations
APPROVED

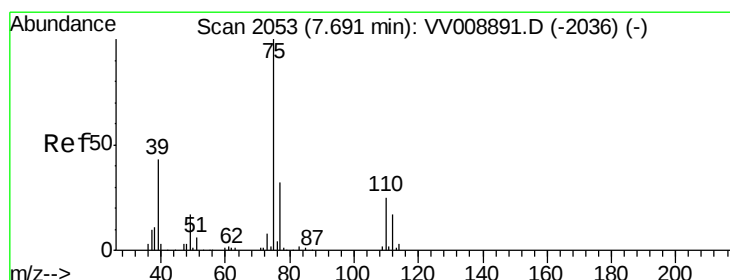
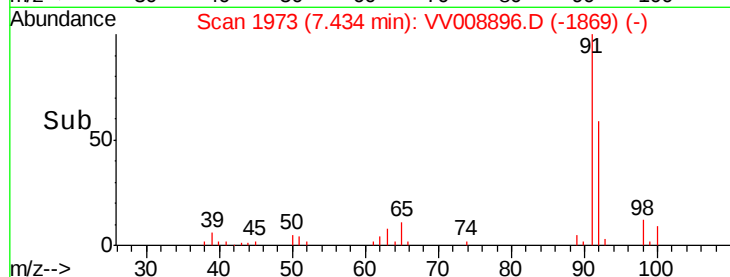
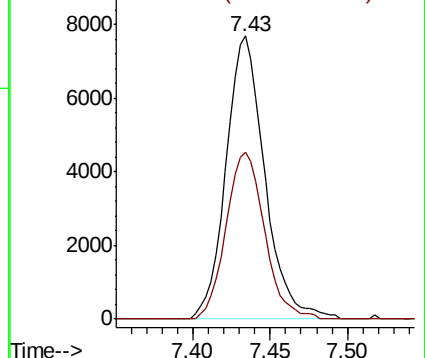
sam

12/12/2018 11:26:29 AM



Abundance Ion 91.00 (90.70 to 91.70): VV008896.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV008896.D (-1958) (-)



#45

trans-1,3-Dichloropropene

Concen: 1.062 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV008896.D

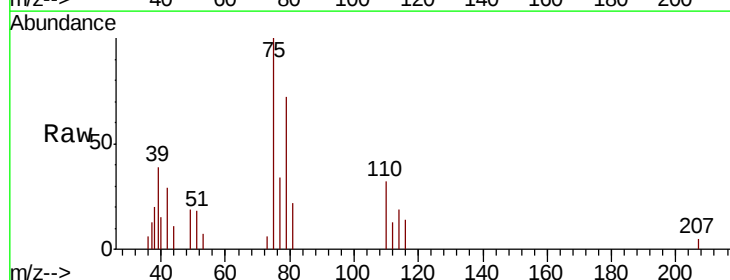
Acq: 11 Dec 2018 13:29

Tgt Ion: 75 Resp: 3642

Ion Ratio Lower Upper

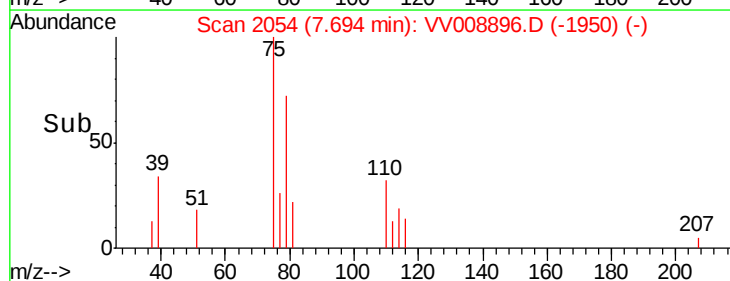
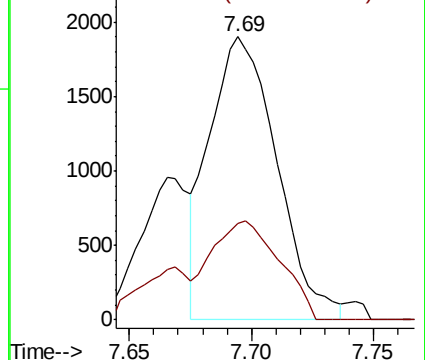
75 100

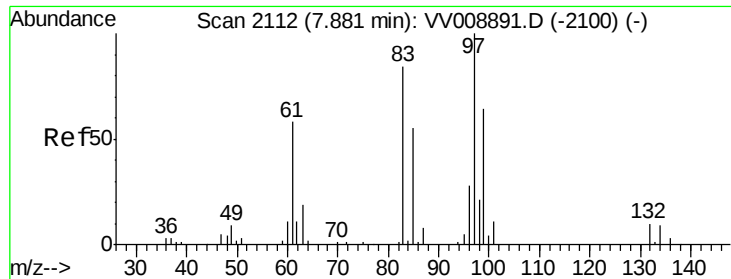
77 34.2 23.6 43.8



Abundance Ion 75.00 (74.70 to 75.70): VV008896.D (-1950) (-)

Ion 77.00 (76.70 to 77.70): VV008896.D (-1950) (-)





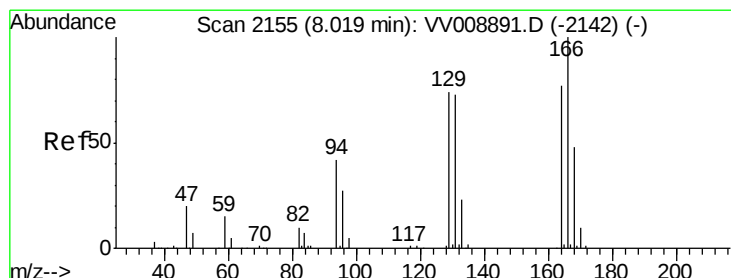
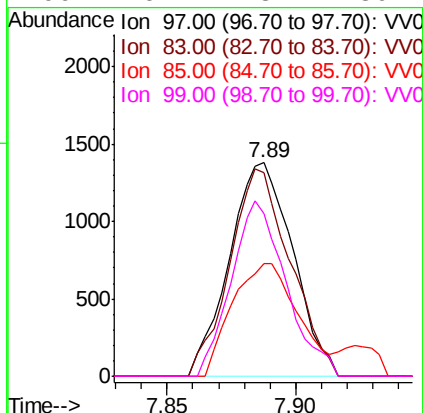
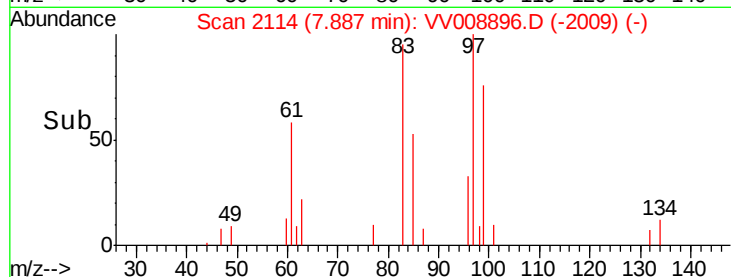
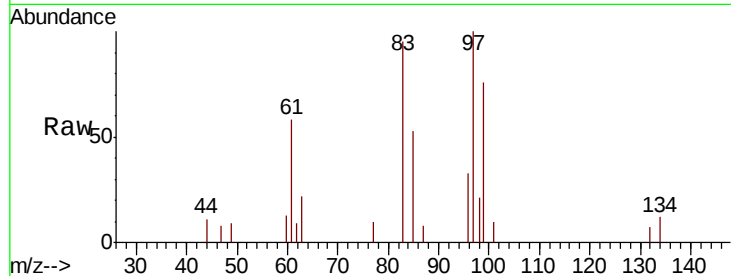
#46
1,1,2-Trichloroethane
Concen: 1.055 ug/L
RT: 7.89 min Scan# 2114
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion:	97	Resp:	2361
Ion	Ratio	Lower	Upper
97	100		
83	95.1	56.6	105.2
85	52.9	36.6	68.0
99	76.2	43.2	80.2

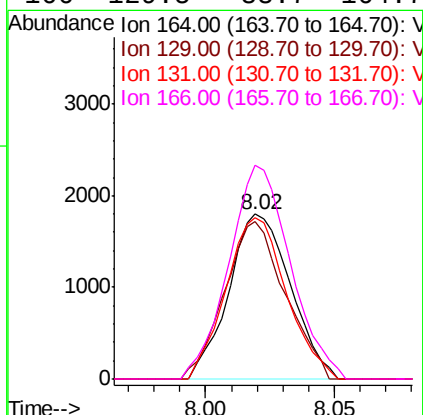
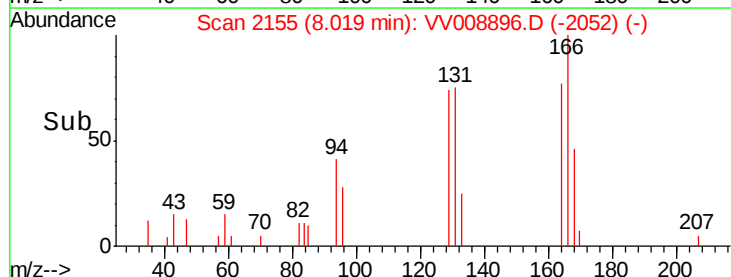
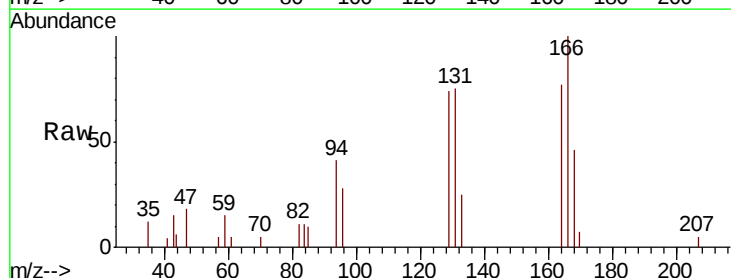
Manual Integrations
APPROVED

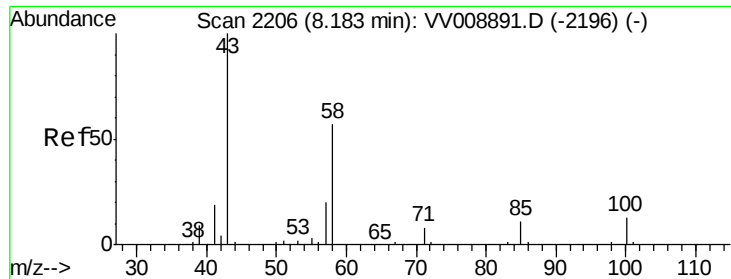
sam
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#47
Tetrachloroethene
Concen: 1.096 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion:	164	Resp:	3007
Ion	Ratio	Lower	Upper
164	100		
129	95.7	64.6	120.0
131	97.6	64.5	119.7
166	129.5	88.7	164.7





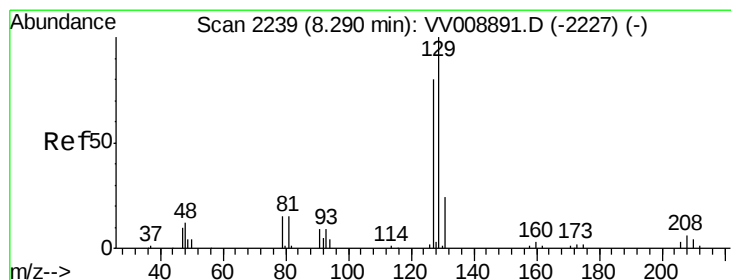
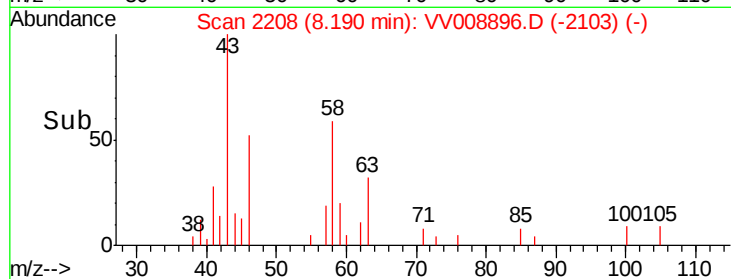
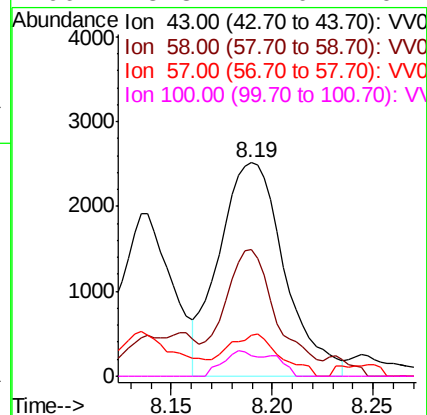
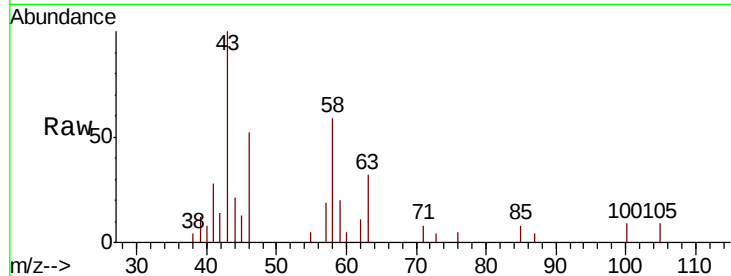
#49
2-Hexanone
Concen: 3.792 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.5	43.9	65.9
57	10.1	15.7	23.5
100	5.8	11.0	16.4

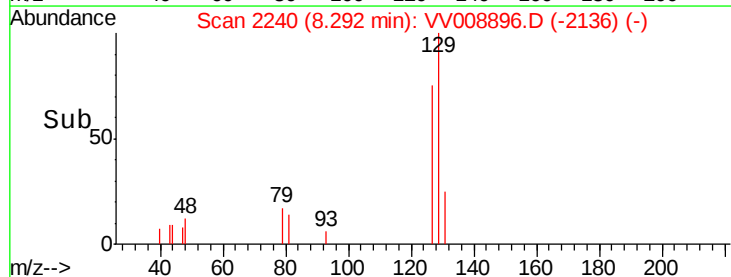
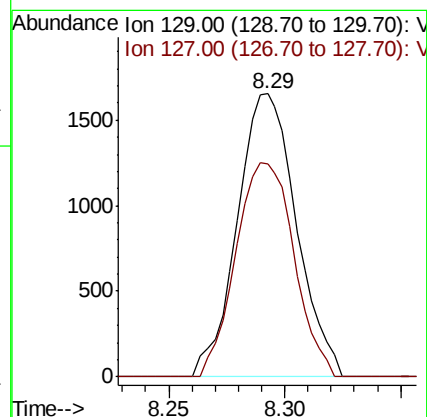
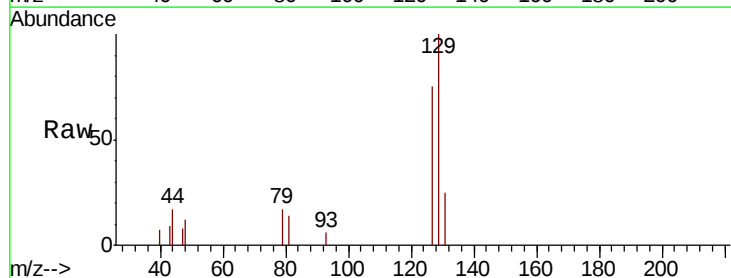
Manual Integrations
APPROVED

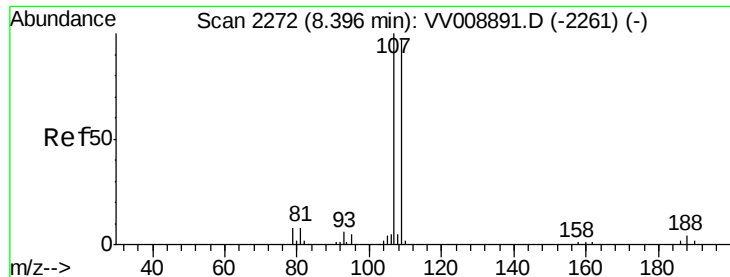
sam
12/12/2018 11:26:29 AM



#50
Dibromochloromethane
Concen: 1.139 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion	Ratio	Lower	Upper
129	100		
127	75.1	53.5	99.3





#51

1,2-Dibromoethane

Concen: 1.004 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

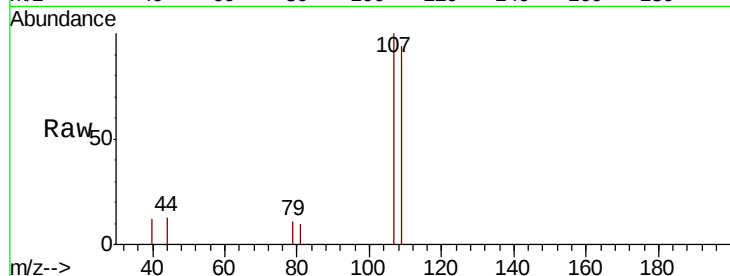
ClientSampleId :

MDL04

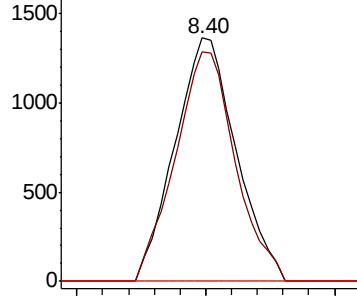
Tot Ion:	107	Resp:	2258
Ion Ratio	Lower	Upper	
107	100		
109	94.3	65.8	122.2
188	0.0	3.0	4.6#

Manual Integrations
APPROVED

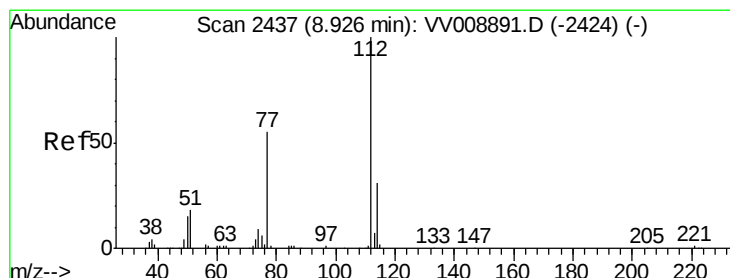
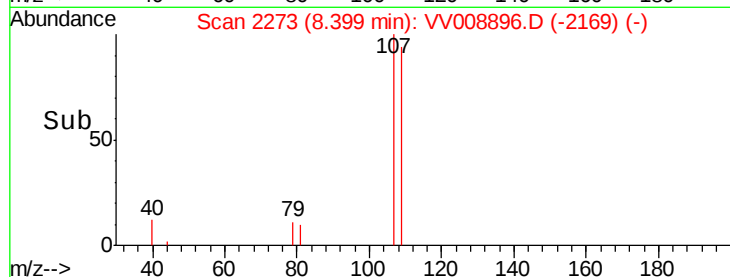
sam
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Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



Time--> 8.35 8.40 8.45



#52

Chlorobenzene

Concen: 1.132 ug/L

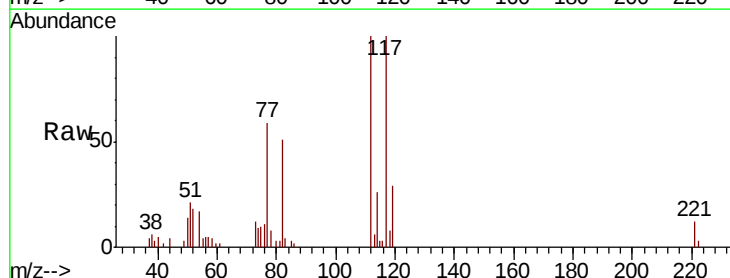
RT: 8.93 min Scan# 2438

Delta R.T. 0.00 min

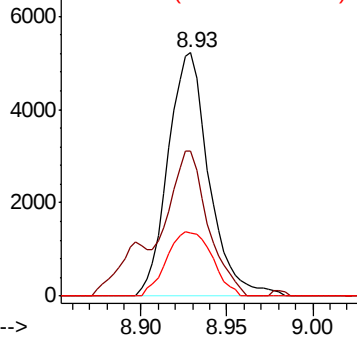
Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

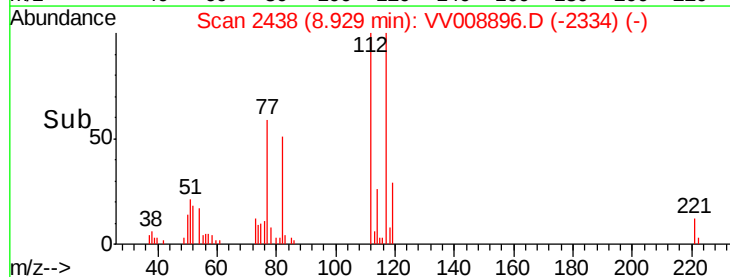
Tgt Ion:	112	Resp:	8657
Ion Ratio	Lower	Upper	
112	100		
77	59.3	44.6	66.8
114	26.2	22.6	42.0

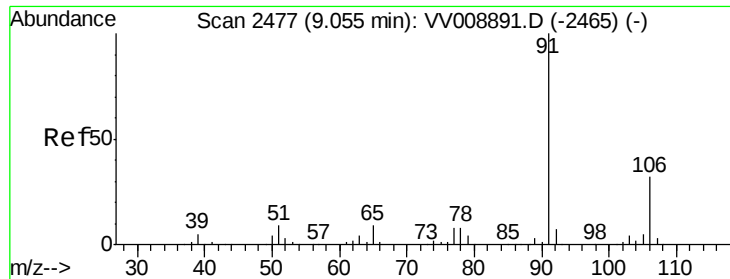


Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V



Time--> 8.90 8.95 9.00





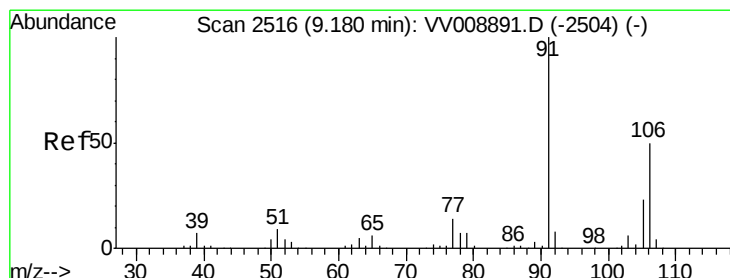
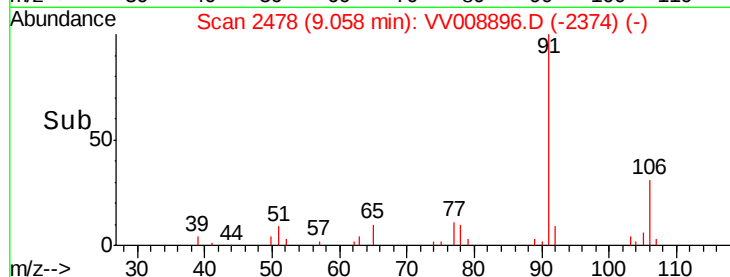
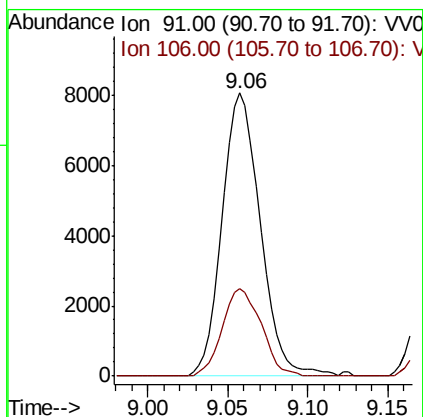
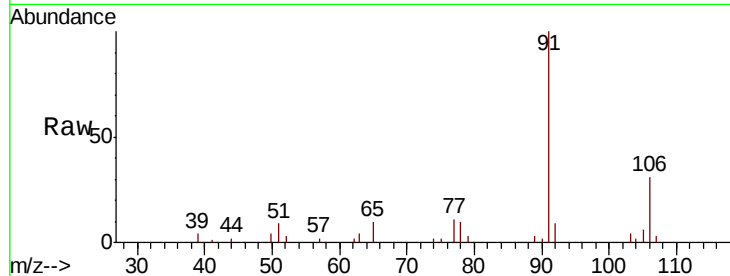
#53
Ethylbenzene
Concen: 1.036 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion: 91 Resp: 13201
Ion Ratio Lower Upper
91 100
106 31.1 21.3 39.5

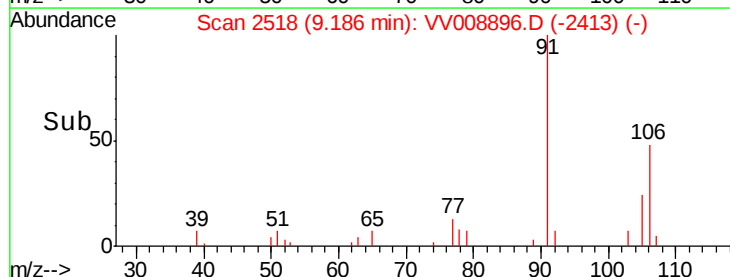
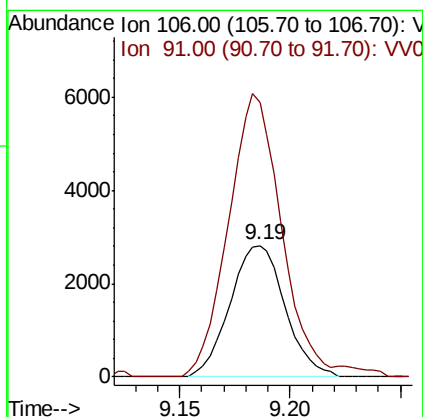
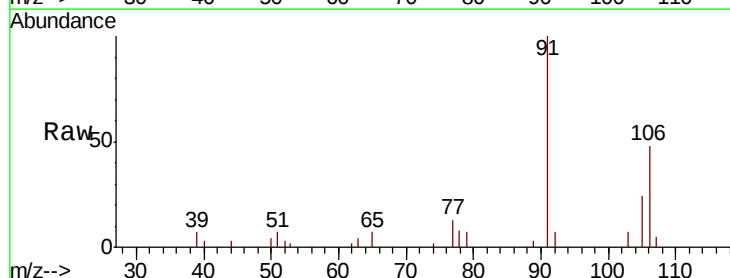
Manual Integrations
APPROVED

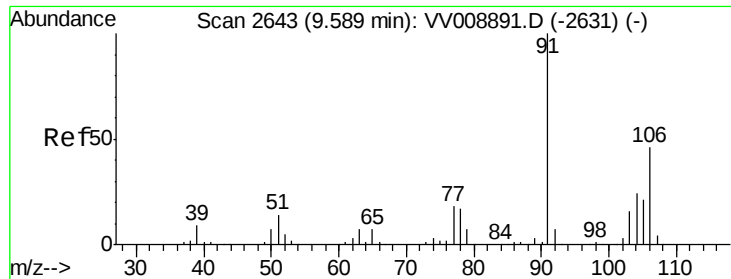
sam
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#54
m,p-Xylene
Concen: 1.013 ug/L
RT: 9.19 min Scan# 2518
Delta R.T. 0.01 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion: 106 Resp: 4883
Ion Ratio Lower Upper
106 100
91 208.4 141.3 262.3





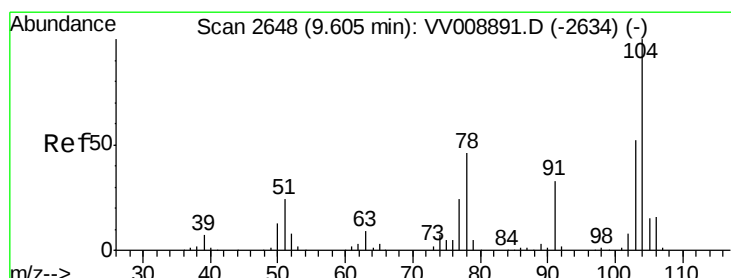
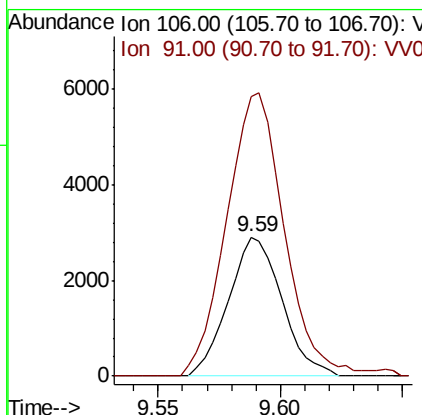
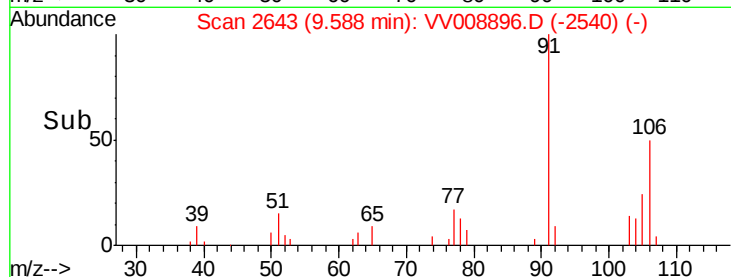
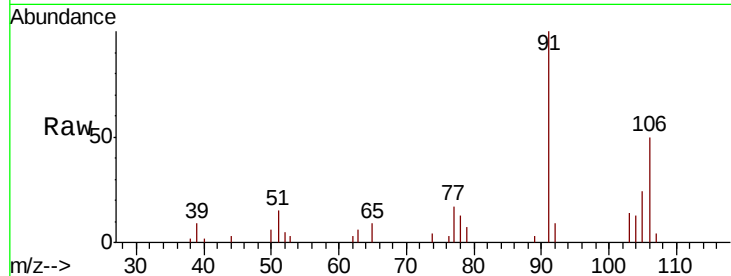
#55
o-xylene
Concen: 0.986 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion:106 Resp: 4420
Ion Ratio Lower Upper
106 100
91 200.9 148.3 275.5

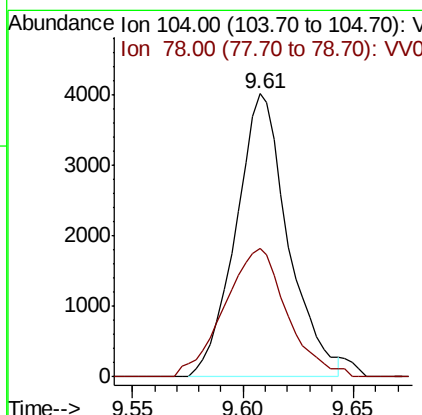
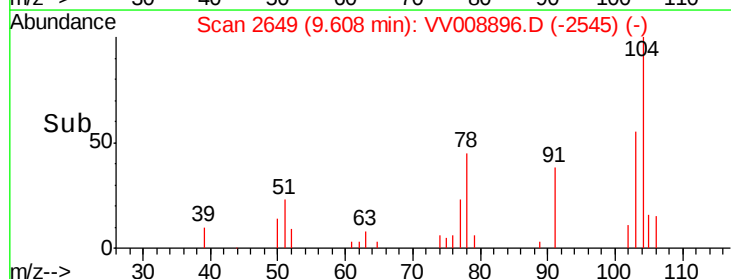
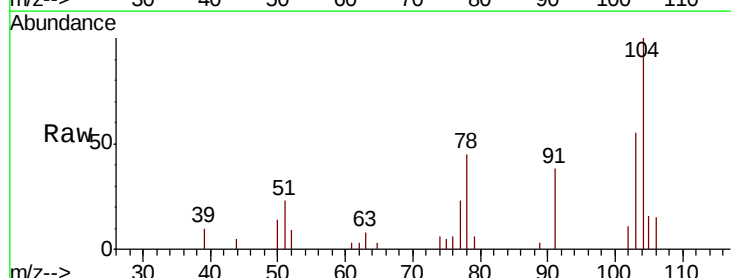
Manual Integrations
APPROVED

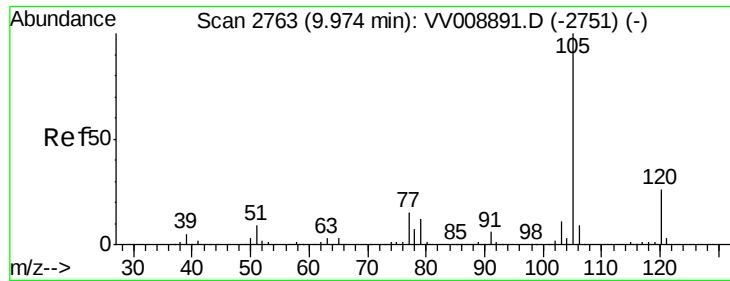
sam
12/12/2018 11:26:29 AM



#56
Styrene
Concen: 0.915 ug/L
RT: 9.61 min Scan# 2649
Delta R.T. 0.00 min
Lab File: VV008896.D
Acq: 11 Dec 2018 13:29

Tgt Ion:104 Resp: 6611
Ion Ratio Lower Upper
104 100
78 45.5 30.6 56.8





#57

Isopropylbenzene

Concen: 0.972 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

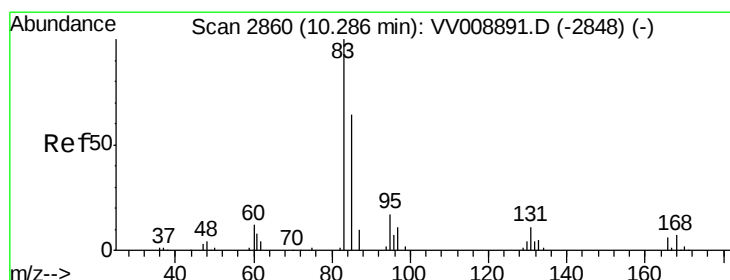
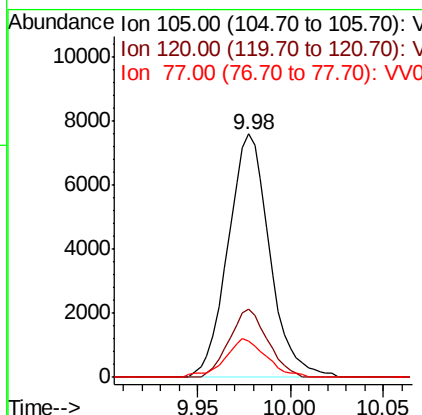
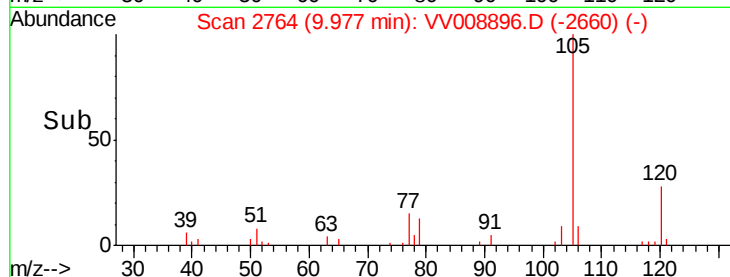
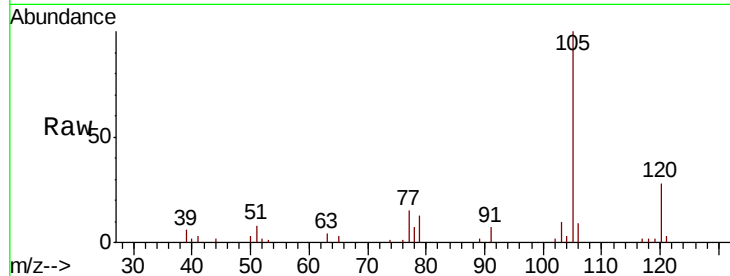
ClientSampleId :

MDL04

Tot Ion:	105	Resp:	11838
Ion Ratio	Lower	Upper	
105	100		
120	25.8	21.7	32.5
77	13.2	12.4	18.6

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#58

1,1,2,2-Tetrachloroethane

Concen: 1.185 ug/L

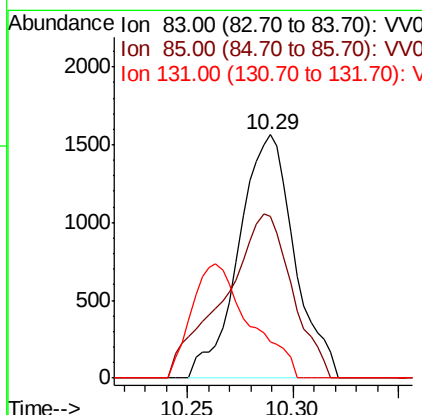
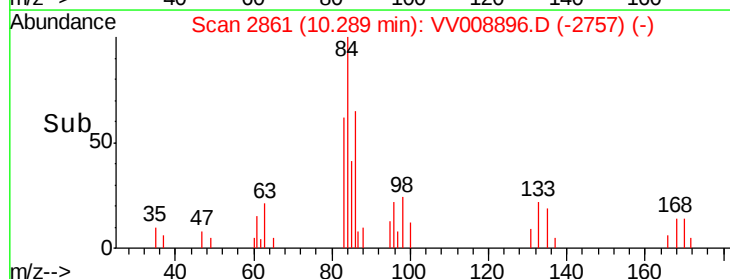
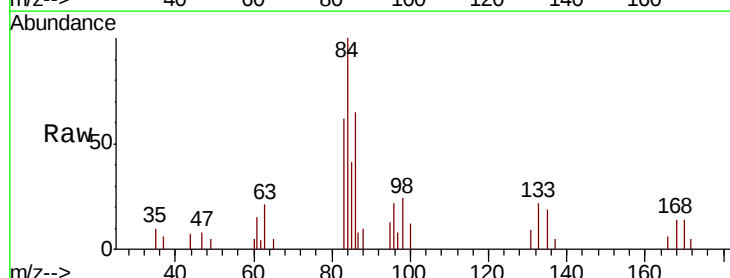
RT: 10.29 min Scan# 2861

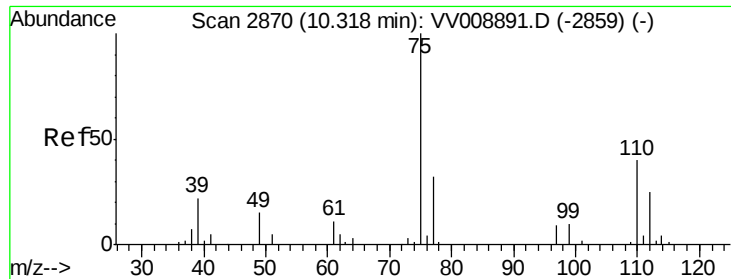
Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Tgt Ion:	83	Resp:	2869
Ion Ratio	Lower	Upper	
83	100		
85	66.2	44.3	82.3
131	15.1	7.8	11.8#





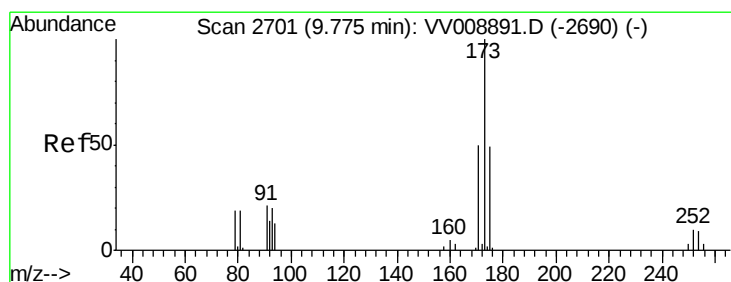
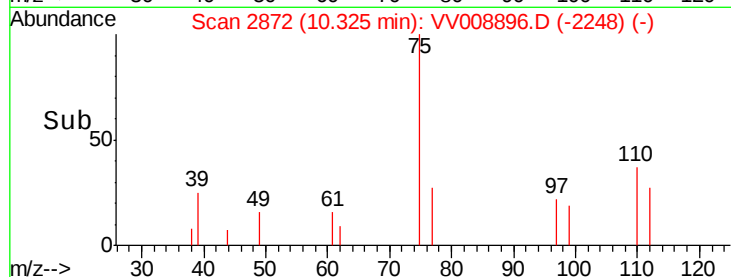
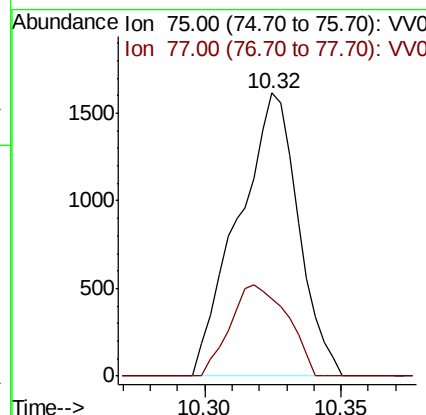
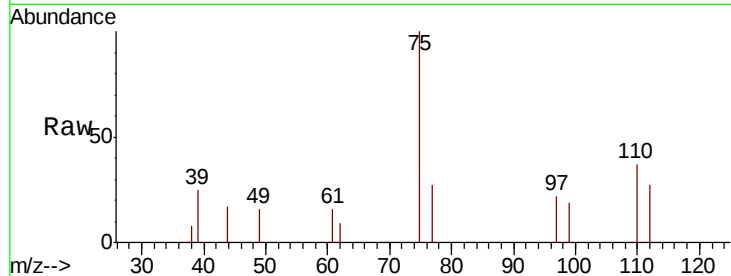
#59
 1,2,3-Trichloropropane
 Concen: 1.180 ug/L
 RT: 10.32 min Scan# 2872
 Delta R.T. 0.01 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tot Ion: 75 Resp: 2471
 Ion Ratio Lower Upper
 75 100
 77 30.9 25.6 38.4

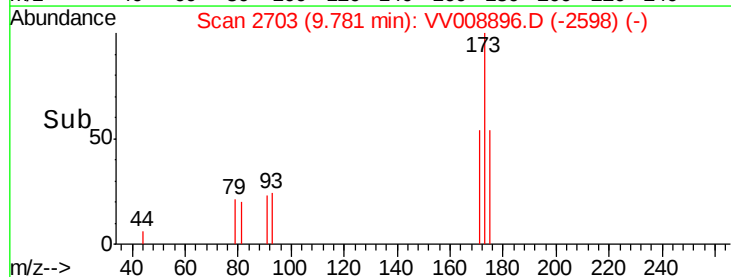
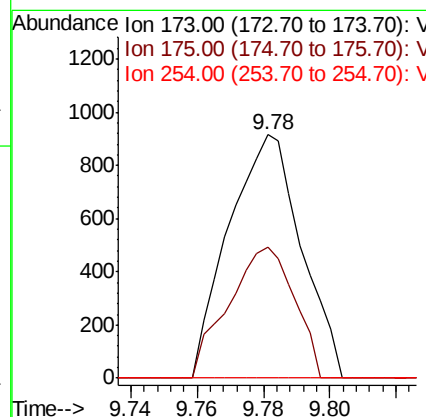
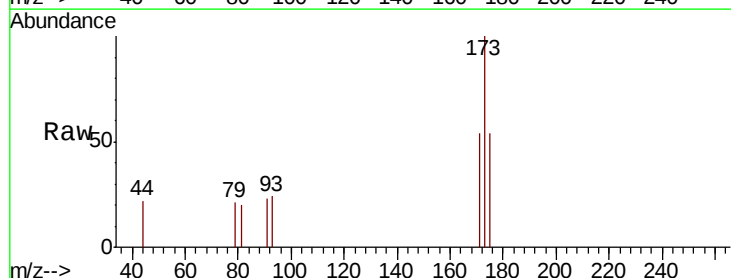
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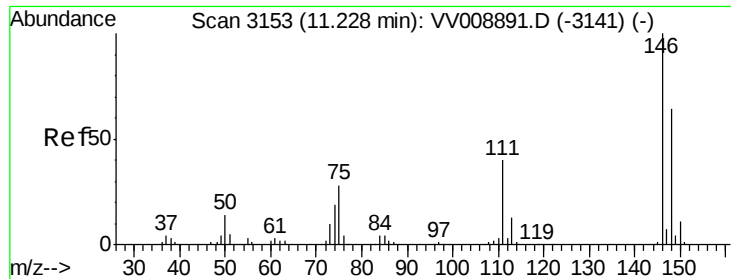
sam
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#62
 Bromoform
 Concen: 0.985 ug/L
 RT: 9.78 min Scan# 2703
 Delta R.T. 0.01 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion: 173 Resp: 1387
 Ion Ratio Lower Upper
 173 100
 175 49.0 37.7 56.5
 254 0.0 7.1 10.7#





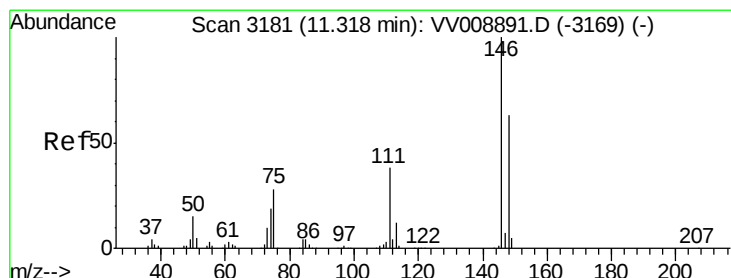
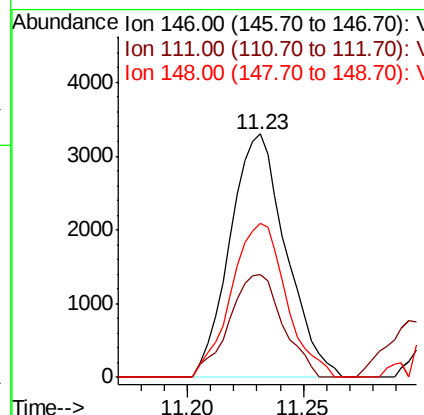
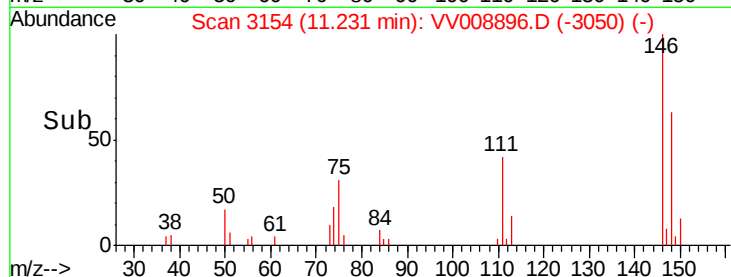
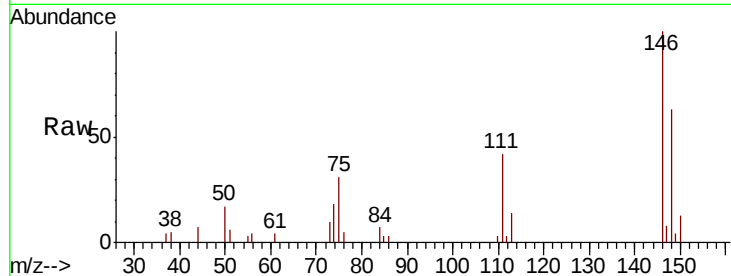
#63
 1,3-Dichlorobenzene
 Concen: 1.099 ug/L
 RT: 11.23 min Scan# 3154
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.4	27.5	51.1
148	63.1	44.0	81.8

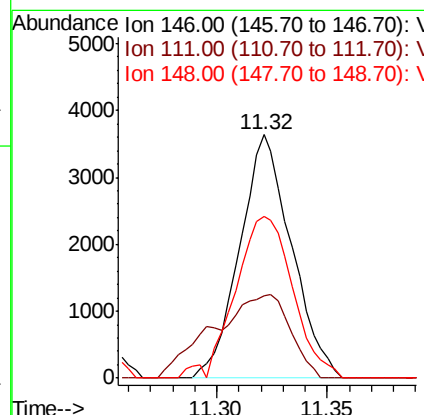
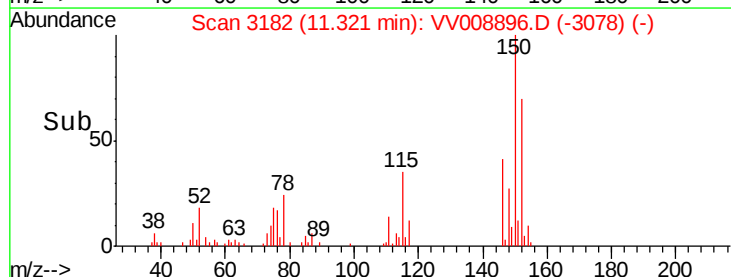
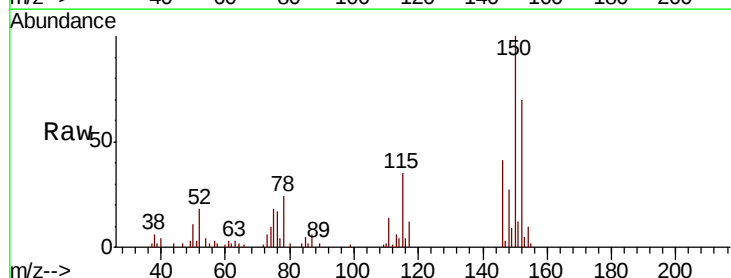
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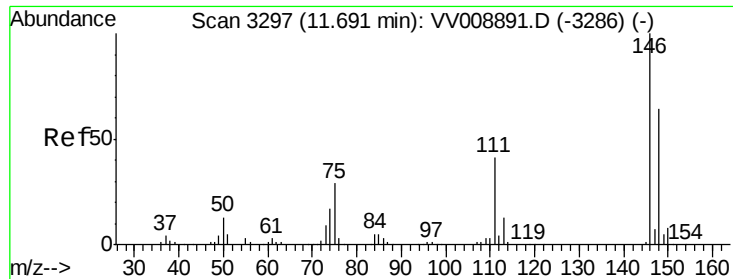
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#64
 1,4-Dichlorobenzene
 Concen: 1.144 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.6	26.8	49.8
148	66.5	45.8	85.0





#65

1,2-Dichlorobenzene

Concen: 1.185 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

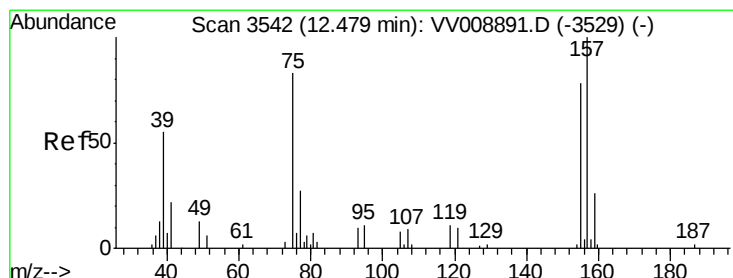
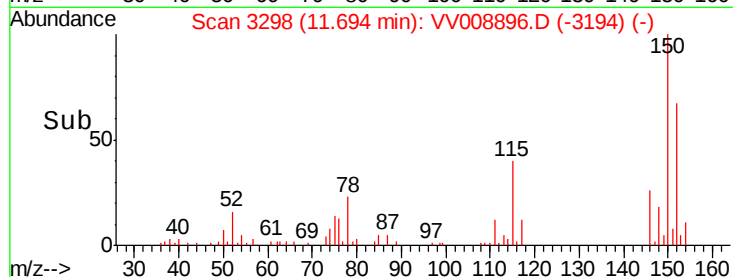
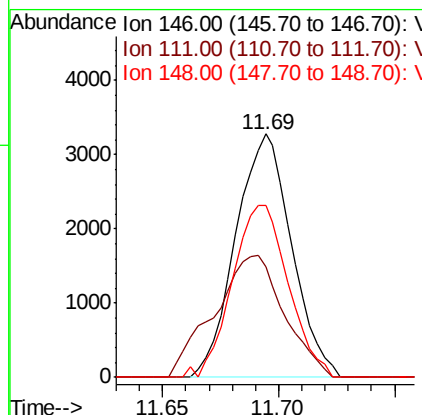
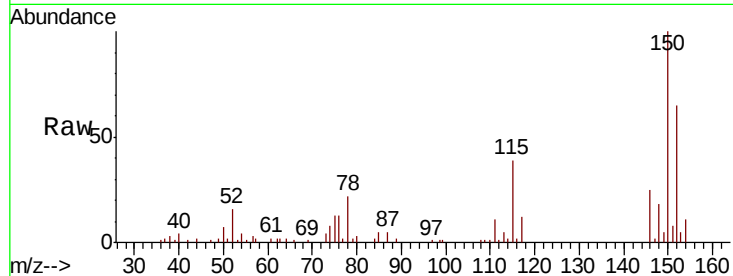
ClientSampleId :

MDL04

Tot Ion:	146	Resp:	5488
Ion Ratio	Lower	Upper	
146	100		
111	45.5	34.2	51.4
148	70.8	51.0	76.6

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#66

1,2-Dibromo-3-chloropropane

Concen: 1.072 ug/L m

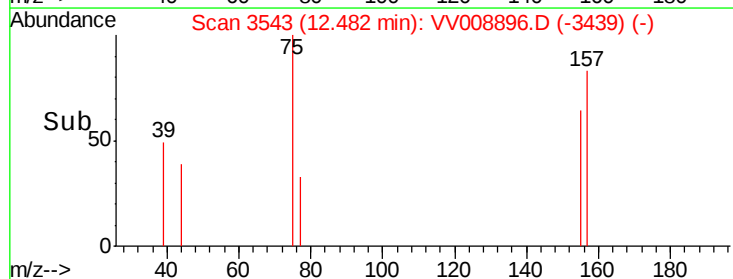
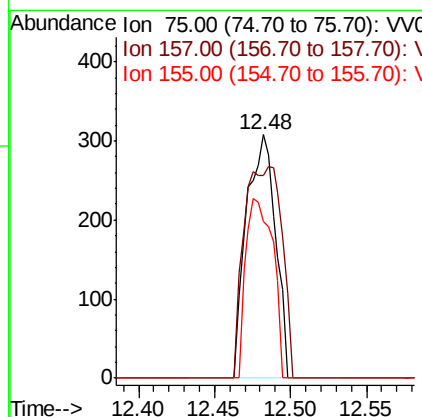
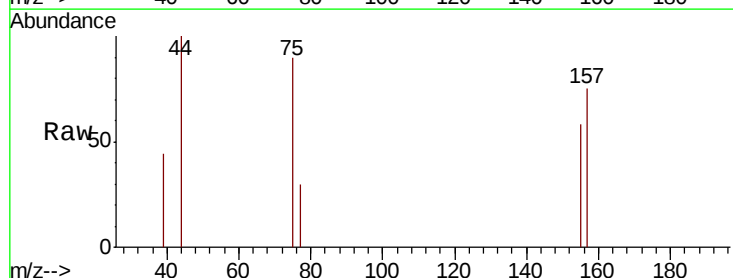
RT: 12.48 min Scan# 3543

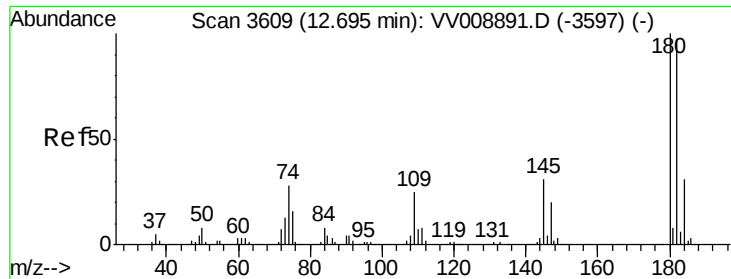
Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Tgt Ion:	75	Resp:	407
Ion Ratio	Lower	Upper	
75	100		
157	83.4	95.8	143.6#
155	64.3	71.4	107.2#





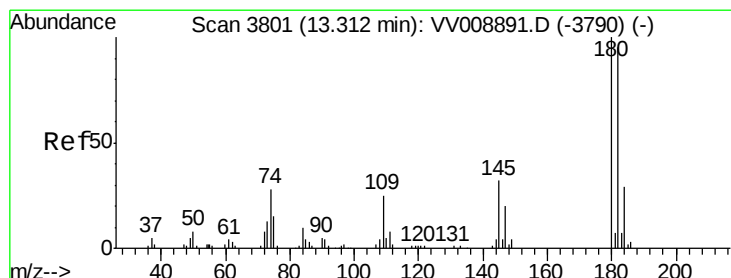
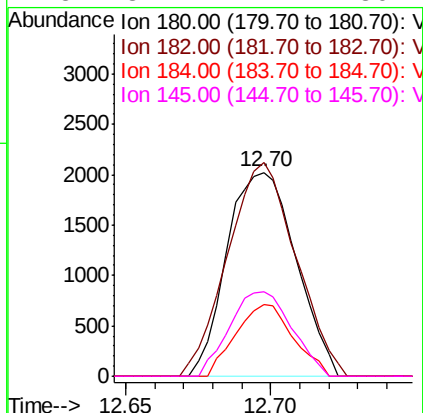
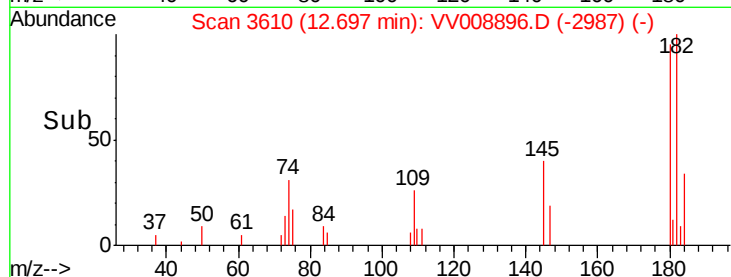
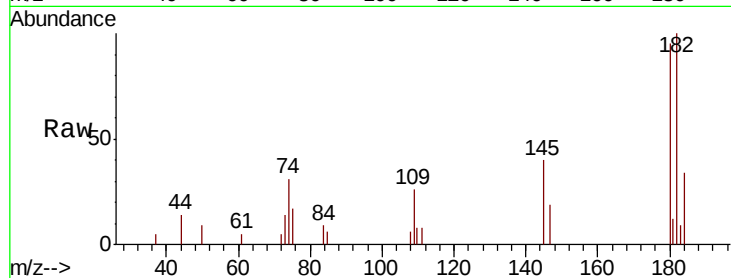
#67
 1,3,5-Trichlorobenzene
 Concen: 0.920 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	103.9	75.9	113.9
184	29.2	23.8	35.6
145	37.4	24.2	36.4

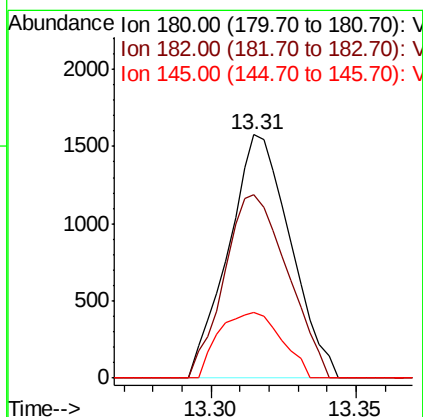
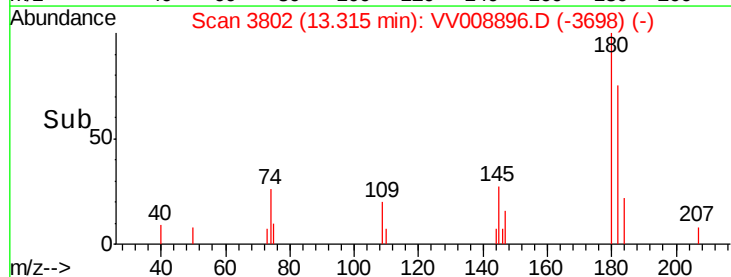
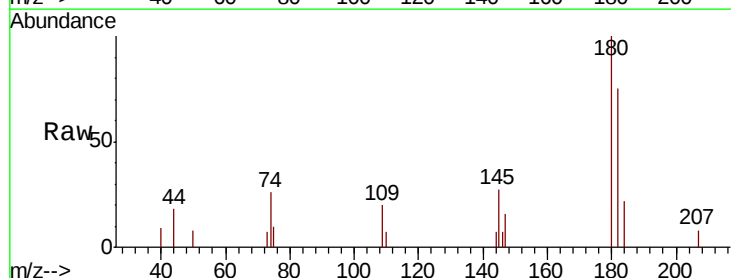
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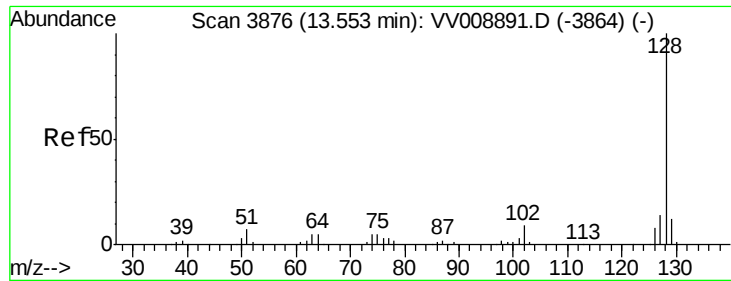
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#68
 1,2,4-trichlorobenzene
 Concen: 0.918 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008896.D
 Acq: 11 Dec 2018 13:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.3	77.4	116.0
145	27.3	25.6	38.4





#69

Naphthalene

Concen: 0.639 ug/L

RT: 13.56 min Scan# 3878

Delta R.T. 0.01 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Instrument :

MSVOA_V

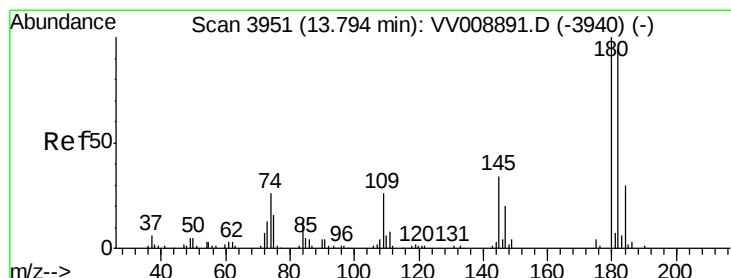
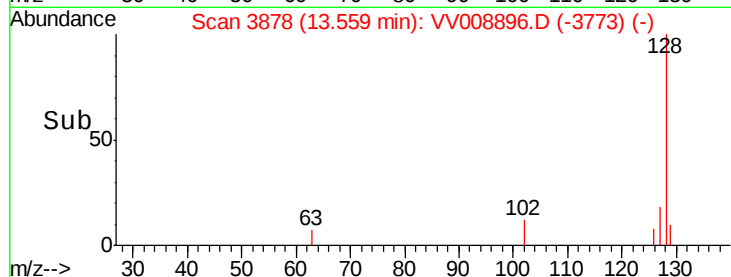
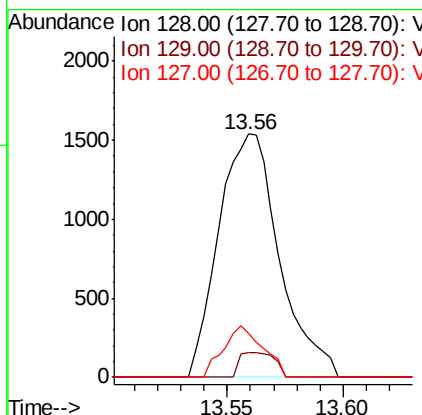
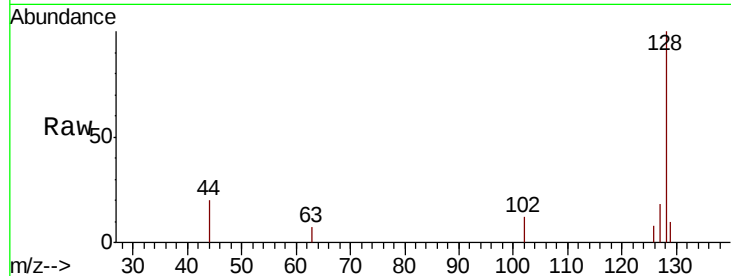
ClientSampleId :

MDL04

Tot Ion	Ratio	Lower	Upper
128	100		
129	5.8	8.6	13.0#
127	13.8	10.0	15.0

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#70

1,2,3-Trichlorobenzene

Concen: 0.717 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008896.D

Acq: 11 Dec 2018 13:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	110.3	76.1	114.1
145	21.1	26.7	40.1#

