

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121118\
 Data File : VV008893.D
 Acq On : 11 Dec 2018 12:15
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.00g/10.0 mL/MSVOA V/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

sam
 12/12/2018 11:26:20 AM

Quant Time: Dec 12 04:44:50 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	5.66	114	191950	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	169177	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	70411	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	50623	25.49	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.96%
7) Chloroethane-d5	1.58	69	37859	25.80	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.20%
10) 1,1-Dichloroethene-d2	2.13	63	93346	18.80	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	75.20%
20) 2-Butanone-d5	3.93	46	35793	49.49	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	98.98%
24) Chloroform-d	4.40	84	109678	23.77	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.08%
26) 1,2-Dichloroethane-d4	5.08	65	62709	24.90	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	99.60%
29) Benzene-d6	5.10	84	224770	23.79	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.16%
33) 1,2-Dichloropropane-d6	6.12	67	65215	24.65	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.60%
37) Toluene-d8	7.36	98	205488	23.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.00%
38) trans-1,3-Dichloropropene-	7.66	79	28321	24.37	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.48%
39) 2-Hexanone-d5	8.14	63	21196	43.74	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.48%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	50486	22.75	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.00%
61) 1,2-Dichlorobenzene-d4	11.68	152	63391	23.99	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.96%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	3370	1.071	ug/L	98
3) Chloromethane	1.25	50	2198	1.017	ug/L	89
5) Vinyl chloride	1.32	62	2248	0.931	ug/L #	52
6) Bromomethane	1.53	94	1436	1.237	ug/L	95
8) Chloroethane	1.60	64	1480	1.095	ug/L	100
9) Trichlorofluoromethane	1.77	101	4564	1.104	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3487	1.230	ug/L #	84
12) 1,1-Dichloroethene	2.14	96	3130	1.265	ug/L #	1
13) Acetone	2.20	43	3323	3.119	ug/L	95
14) Carbon disulfide	2.32	76	7592	0.956	ug/L	98
15) Methyl Acetate	2.46	43	1307m	0.967	ug/L	
16) Methylene chloride	2.54	84	7180	2.221	ug/L	95
17) Methyl tert-butyl Ether	2.80	73	4956	0.882	ug/L #	83
18) trans-1,2-Dichloroethene	2.79	96	2334	0.873	ug/L	96
19) 1,1-Dichloroethane	3.23	63	3518m	0.812	ug/L	
21) 2-Butanone	4.03	43	1997m	2.000	ug/L	
22) cis-1,2-Dichloroethene	3.96	96	2421m	0.868	ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121118\
 Data File : VV008893.D
 Acq On : 11 Dec 2018 12:15
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.00g/10.0 mL/MSVOA V/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

sam
 12/12/2018 11:26:20 AM

Quant Time: Dec 12 04:44:50 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	4.29	128	1088m	0.828	ug/L	
25) Chloroform	4.42	83	6064	1.304	ug/L	79
27) 1,2-Dichloroethane	5.18	62	2635	0.832	ug/L #	75
30) Cyclohexane	4.72	56	3620	0.850	ug/L	96
31) 1,1,1-Trichloroethane	4.66	97	3607	0.827	ug/L #	85
32) Carbon tetrachloride	4.87	117	3307	0.830	ug/L	99
34) Benzene	5.14	78	8396	0.828	ug/L	100
35) Trichloroethene	5.96	95	3031	0.992	ug/L	97
36) Methylcyclohexane	6.17	83	3898	0.800	ug/L	98
40) 1,2-Dichloropropane	6.23	63	2201	0.905	ug/L #	85
41) Bromodichloromethane	6.55	83	2690	0.839	ug/L #	86
42) cis-1,3-Dichloropropene	7.07	75	3143	0.882	ug/L	94
43) 4-Methyl-2-pentanone	7.28	43	3763	2.289	ug/L #	79
44) Toluene	7.43	91	9789	0.921	ug/L	94
45) trans-1,3-Dichloropropene	7.69	75	3282m	1.057	ug/L	
46) 1,1,2-Trichloroethane	7.88	97	1675	0.826	ug/L	96
47) Tetrachloroethene	8.02	164	2105	0.847	ug/L	77
49) 2-Hexanone	8.19	43	3528	2.594	ug/L #	82
50) Dibromochloromethane	8.29	129	1845	0.794	ug/L	96
51) 1,2-Dibromoethane	8.40	107	1657	0.814	ug/L #	93
52) Chlorobenzene	8.93	112	6519	0.942	ug/L	94
53) Ethylbenzene	9.05	91	9821	0.852	ug/L	97
54) m,p-Xylene	9.18	106	3607	0.826	ug/L	90
55) o-xylene	9.59	106	3318	0.818	ug/L	93
56) Styrene	9.60	104	4829	0.738	ug/L	99
57) Isopropylbenzene	9.97	105	8770	0.795	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	2101	0.959	ug/L #	95
59) 1,2,3-Trichloropropane	10.32	75	1543	0.814	ug/L	98
62) Bromoform	9.78	173	1103	0.868	ug/L #	74
63) 1,3-Dichlorobenzene	11.23	146	4224	0.931	ug/L	93
64) 1,4-Dichlorobenzene	11.32	146	4975	1.066	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	4159	0.994	ug/L #	90
66) 1,2-Dibromo-3-chloropropan	12.47	75	210m	0.613	ug/L	
67) 1,3,5-Trichlorobenzene	12.69	180	2352	0.718	ug/L #	87
68) 1,2,4-trichlorobenzene	13.31	180	1673	0.729	ug/L #	91
69) Naphthalene	13.56	128	2387	0.604	ug/L #	88
70) 1,2,3-Trichlorobenzene	13.80	180	1347	0.635	ug/L	98

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

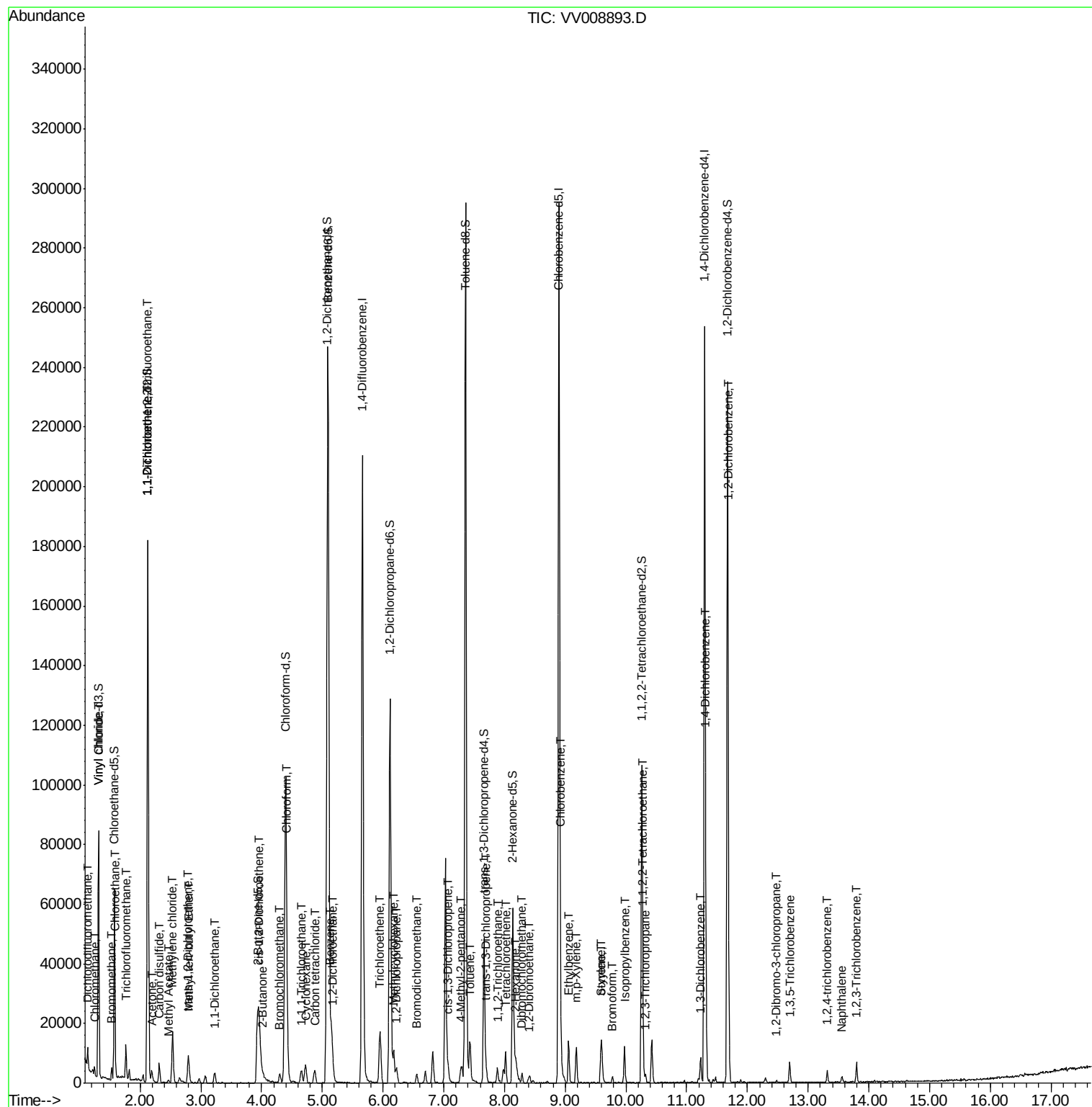
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV121118\
Data File : VV008893.D
Acq On : 11 Dec 2018 12:15
Operator : SY/MD
Sample : MDL01
Misc : 5.00µ/10.0 mL/MSVOA V/SOIL
ALS Vial : 4 Sample Multiplier: 1

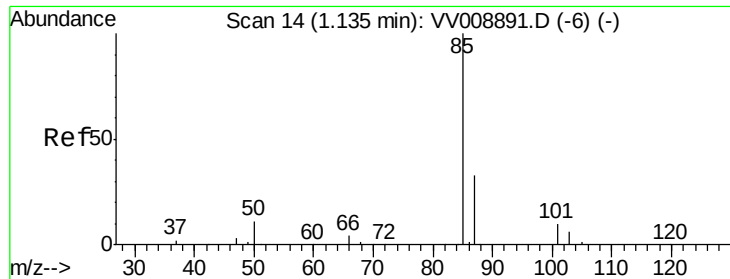
Instrument :
MSVOA_V
ClientSampleId :
MDL01

Manual Integrations
APPROVED

sam
12/12/2018 11:26:20 AM

Quant Time: Dec 12 04:44:50 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 12 04:31:38 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.071 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 3370

Ion Ratio Lower Upper

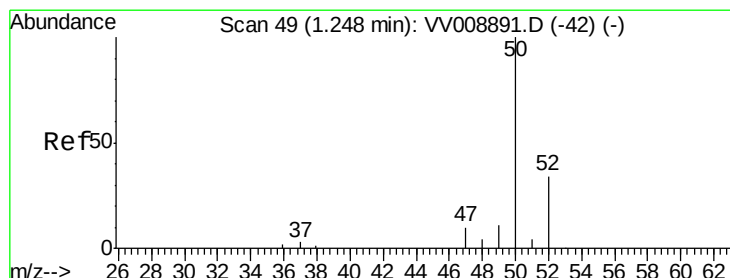
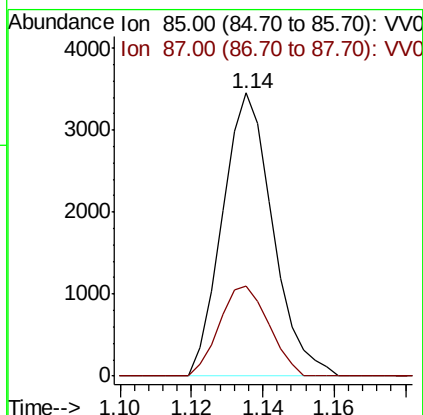
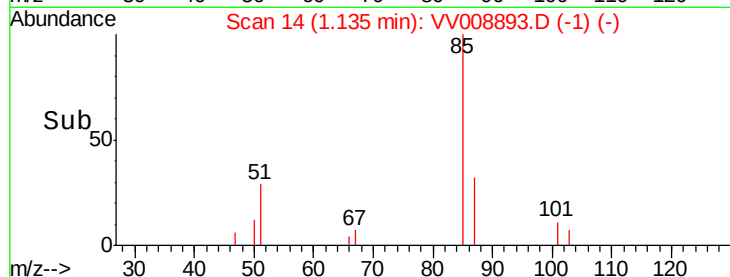
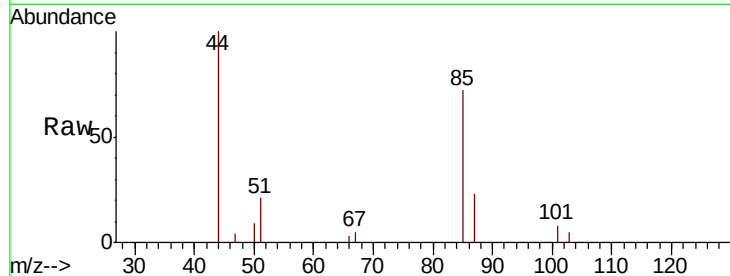
85 100

87 31.2 22.4 41.6

Manual Integrations
APPROVED

sam

12/12/2018 11:26:20 AM



#3

Chloromethane

Concen: 1.017 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV008893.D

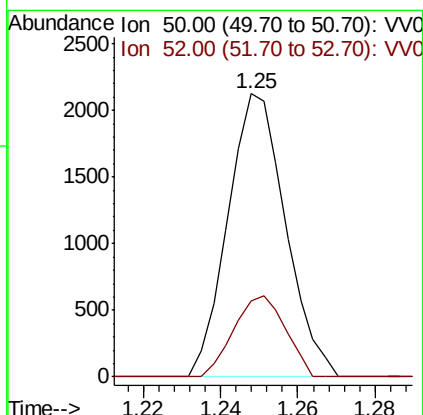
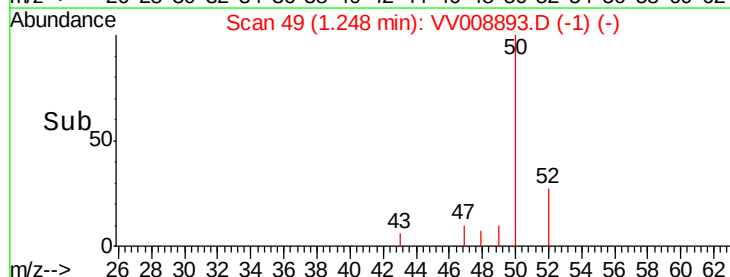
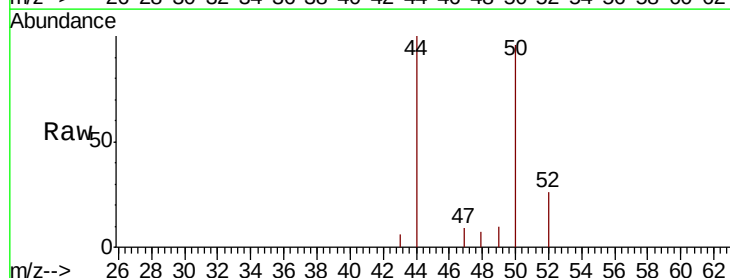
Acq: 11 Dec 2018 12:15

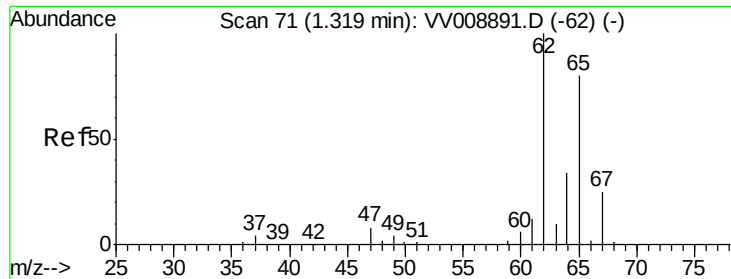
Tgt Ion: 50 Resp: 2198

Ion Ratio Lower Upper

50 100

52 26.9 23.2 43.2





#5

Vinyl chloride

Concen: 0.931 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 62 Resp: 2248

Ion Ratio Lower Upper

62 100

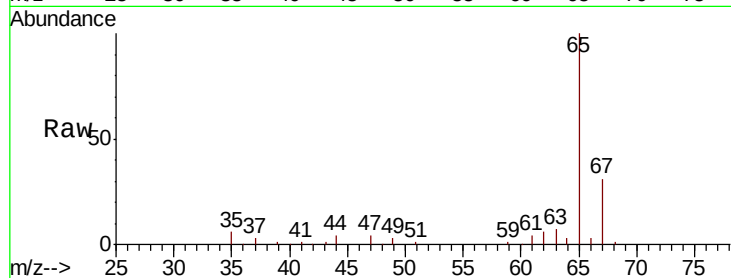
64 60.3 23.3 43.3#

Manual Integrations

APPROVED

sam

12/12/2018 11:26:20 AM



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

2500

2000

1500

1000

500

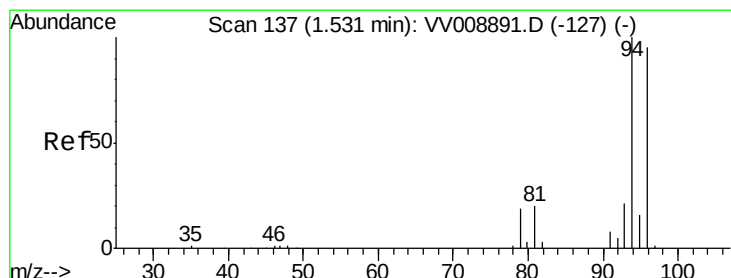
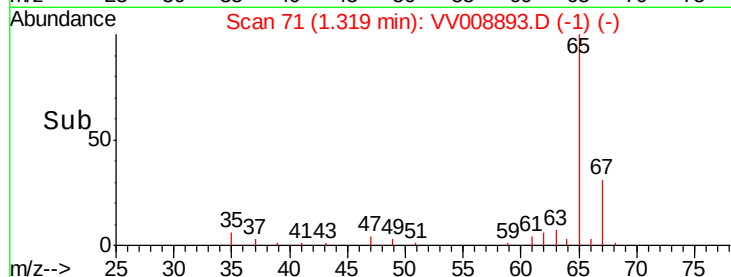
0

1.30

1.32

1.34

Time-->



#6

Bromomethane

Concen: 1.237 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV008893.D

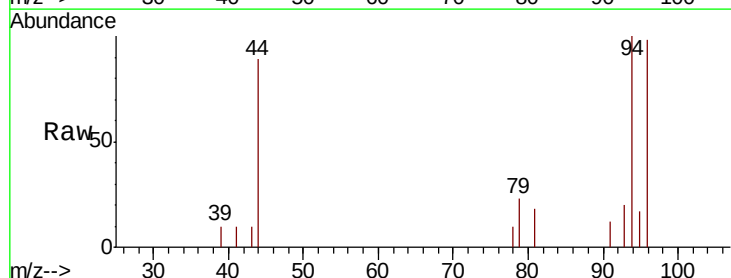
Acq: 11 Dec 2018 12:15

Tgt Ion: 94 Resp: 1436

Ion Ratio Lower Upper

94 100

96 90.7 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

1000

500

0

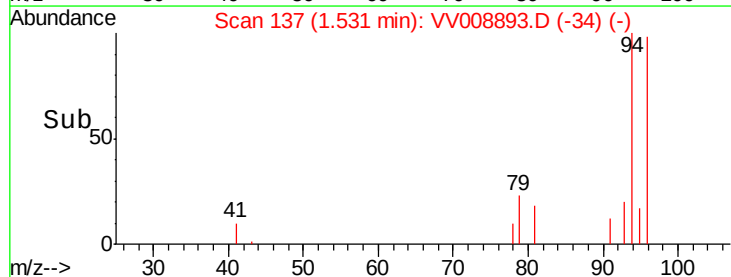
1.50

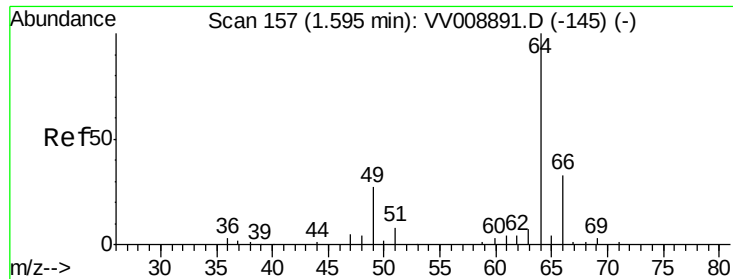
1.52

1.54

1.56

Time-->





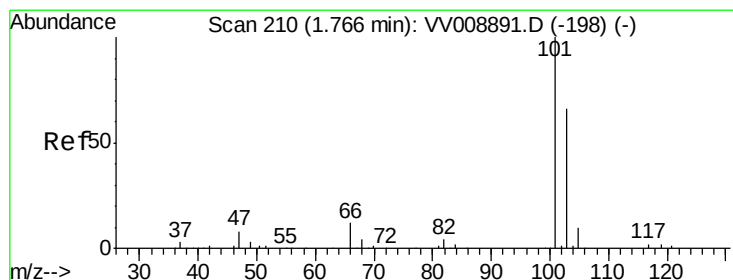
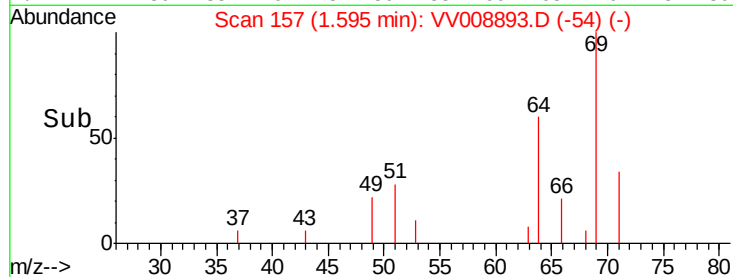
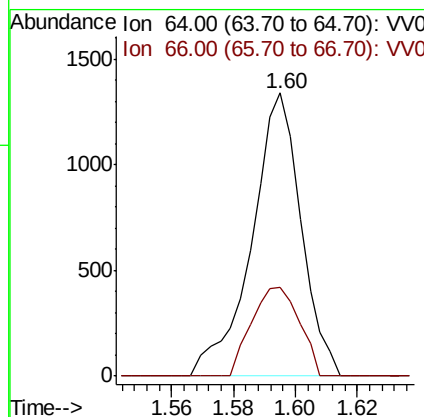
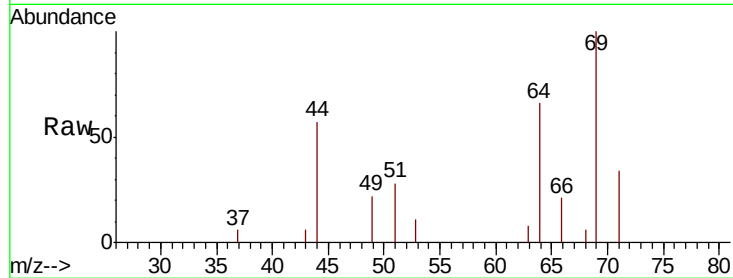
#8
Chloroethane
Concen: 1.095 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion: 64 Resp: 1480
Ion Ratio Lower Upper
64 100
66 31.5 22.2 41.2

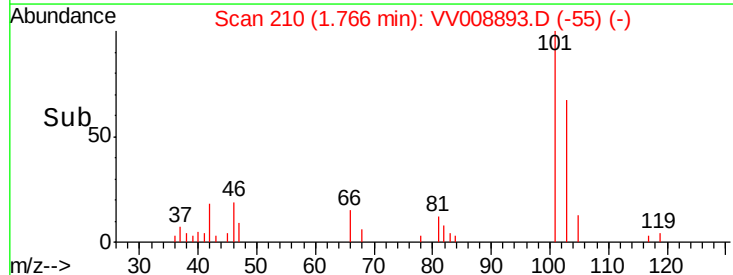
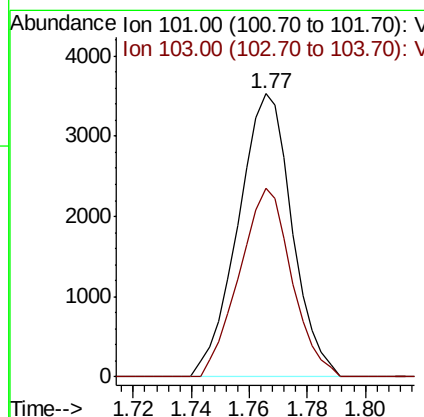
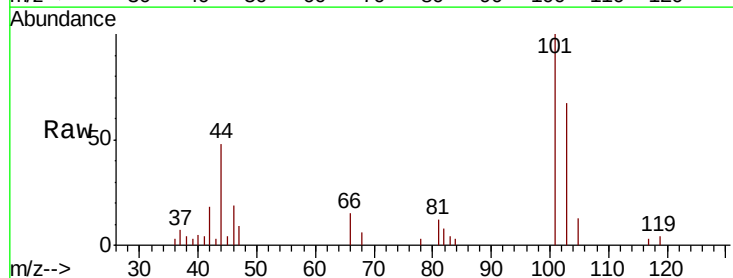
Manual Integrations
APPROVED

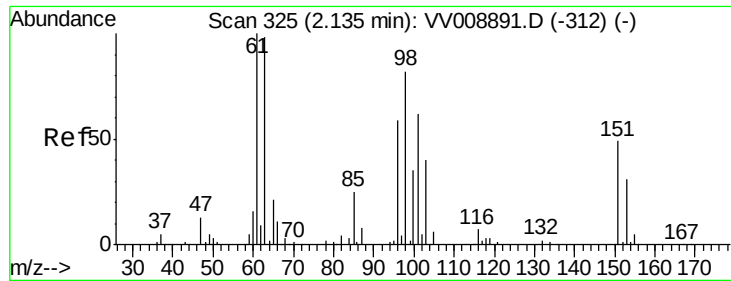
sam
12/12/2018 11:26:20 AM



#9
Trichlorofluoromethane
Concen: 1.104 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion: 101 Resp: 4564
Ion Ratio Lower Upper
101 100
103 64.5 44.8 83.2





#11

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

Concen: 1.230 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Instrument :

MSVOA_V

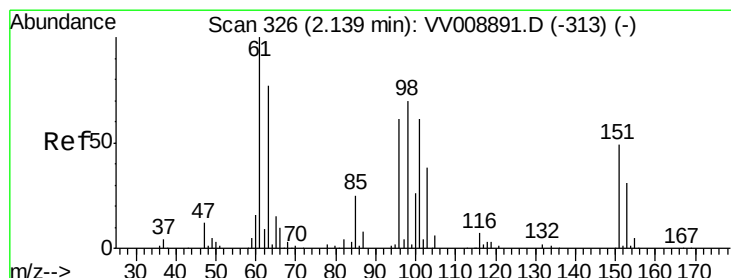
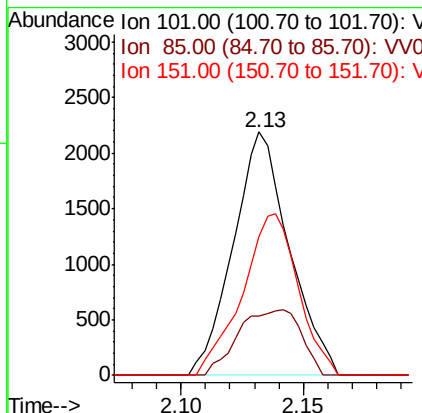
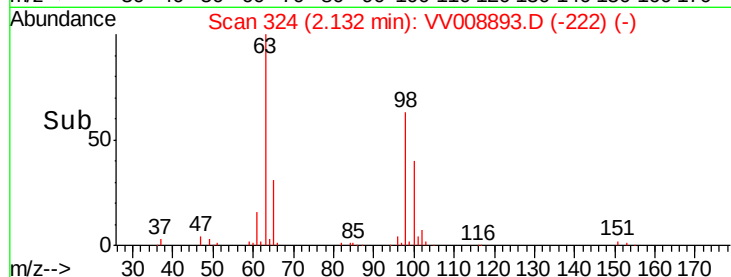
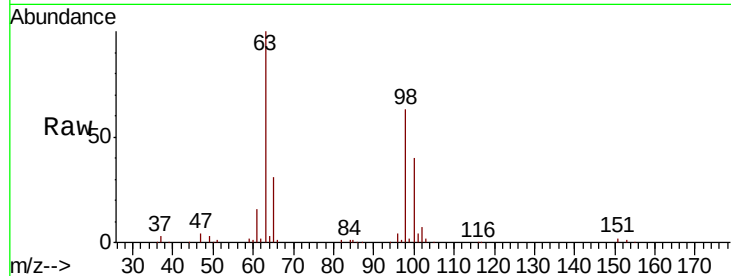
ClientSampled :

MDL01

Tot Ion:	101	Resp:	3487
Ion Ratio	Lower	Upper	
101	100		
85	30.4	32.5	48.7#
151	66.1	64.2	96.4

Manual Integrations
APPROVED

sam
12/12/2018 11:26:20 AM



#12

1,1-Dichloroethene

Concen: 1.265 ug/L

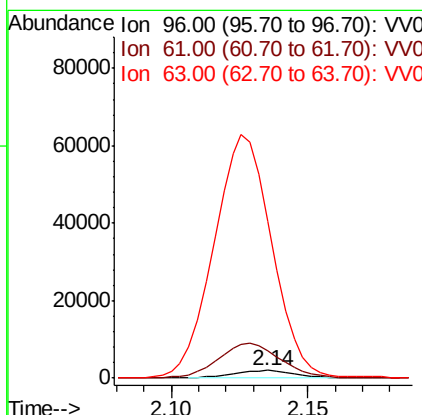
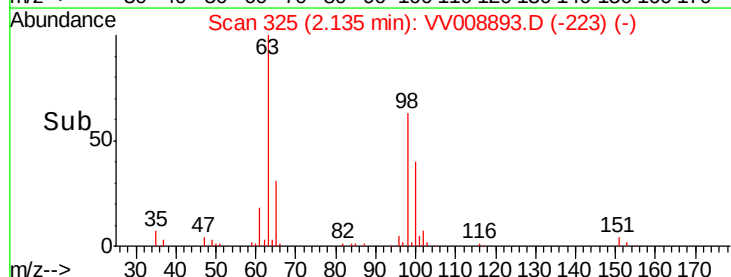
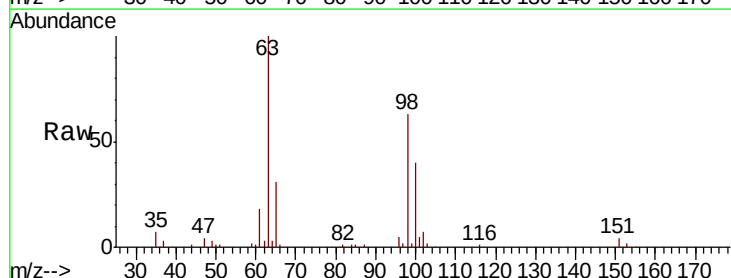
RT: 2.14 min Scan# 325

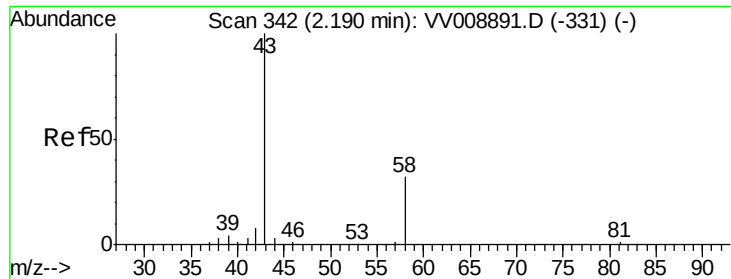
Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Tgt Ion:	96	Resp:	3130
Ion Ratio	Lower	Upper	
96	100		
61	369.0	114.0	211.6#
63	2100.7	82.4	153.0#





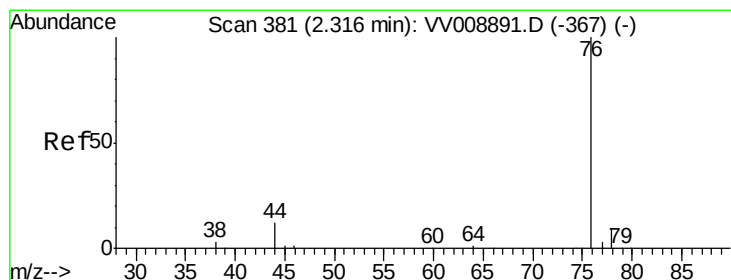
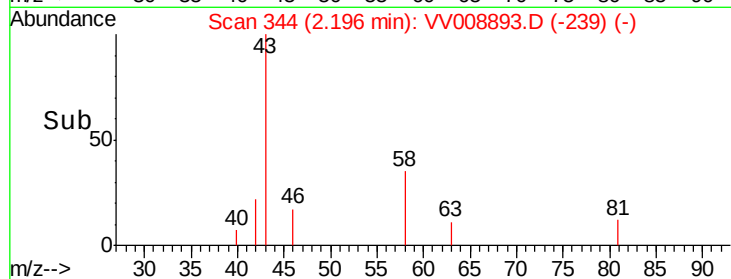
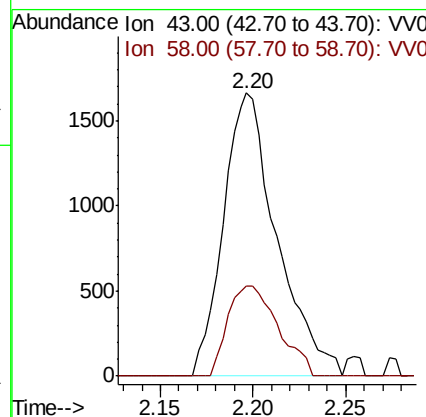
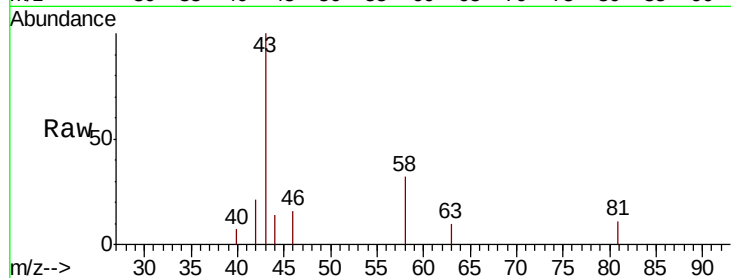
#13
Acetone
Concen: 3.119 ug/L
RT: 2.20 min Scan# 344
Delta R.T. 0.01 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
43	100		
58	29.9	0.0	65.4

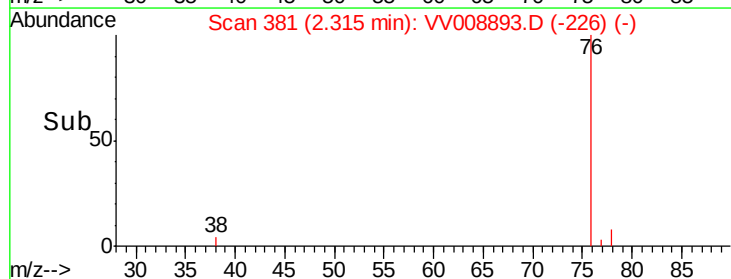
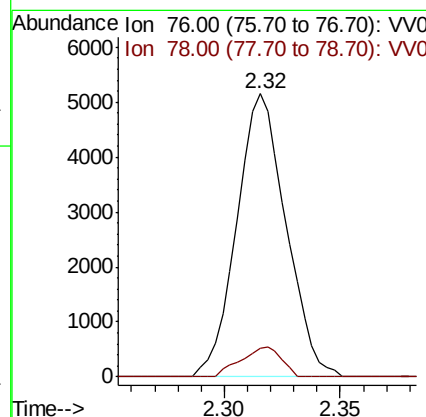
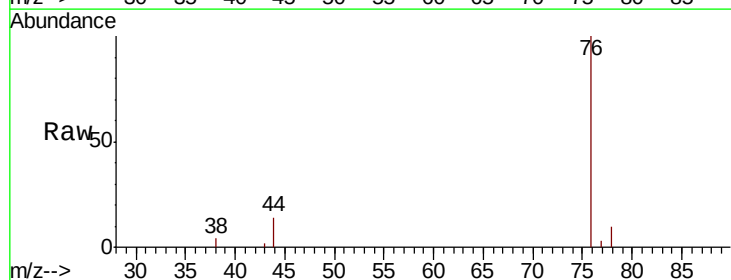
Manual Integrations
APPROVED

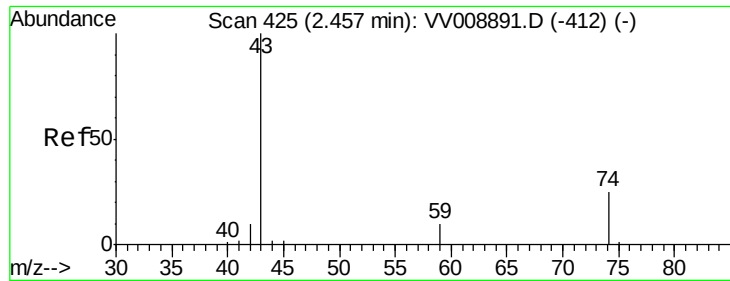
sam
12/12/2018 11:26:20 AM



#14
Carbon disulfide
Concen: 0.956 ug/L
RT: 2.32 min Scan# 381
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.4	11.0





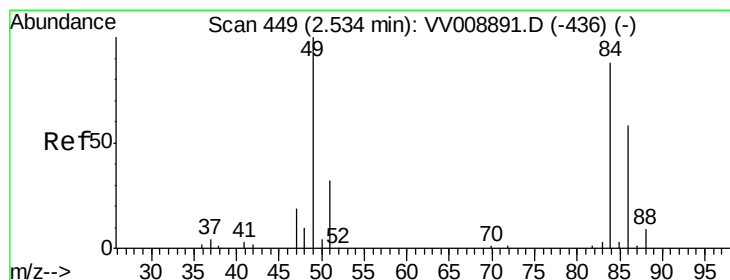
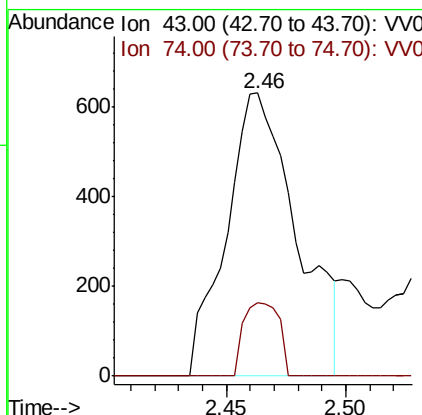
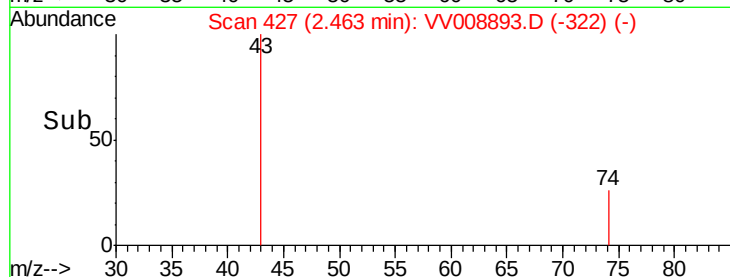
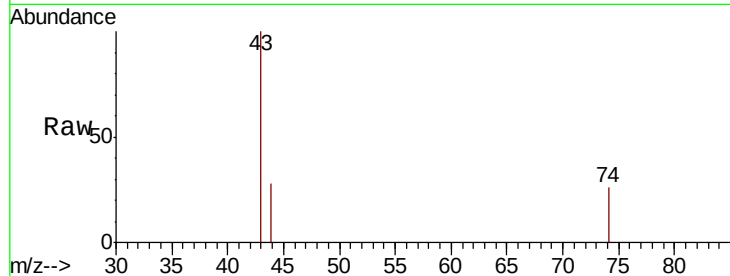
#15
Methyl Acetate
Concen: 0.967 ug/L m
RT: 2.46 min Scan# 427
Delta R.T. 0.01 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion: 43 Resp: 1307
Ion Ratio Lower Upper
43 100
74 12.9 19.7 29.5#

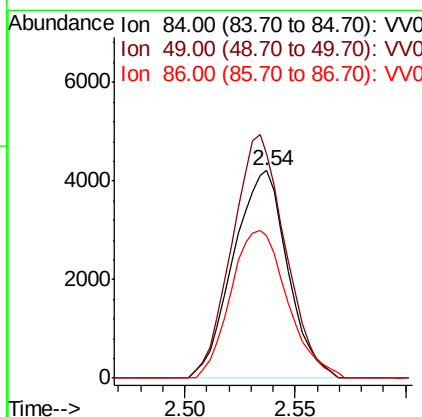
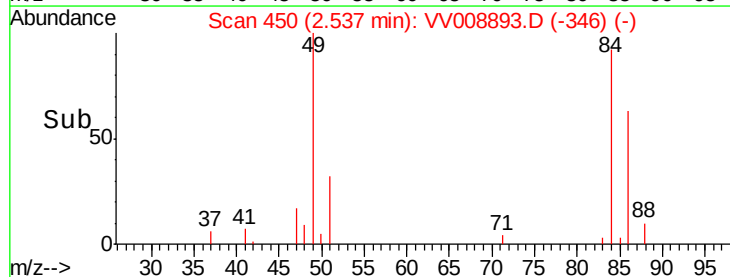
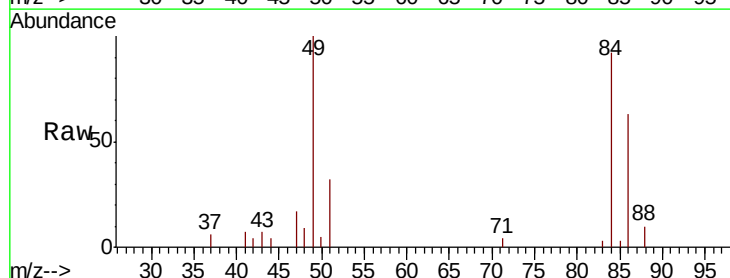
Manual Integrations
APPROVED

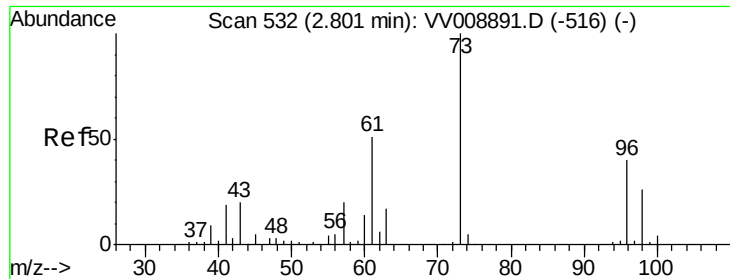
sam
12/12/2018 11:26:20 AM



#16
Methylene chloride
Concen: 2.221 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion: 84 Resp: 7180
Ion Ratio Lower Upper
84 100
49 108.6 80.5 149.5
86 68.7 45.5 84.5





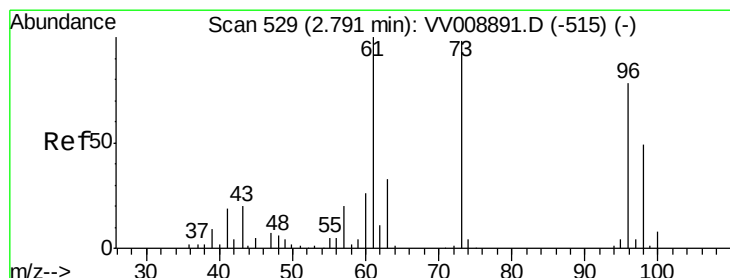
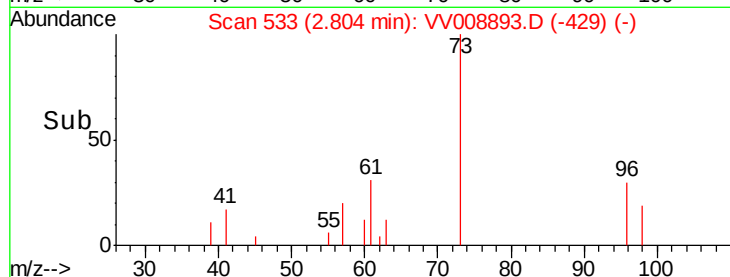
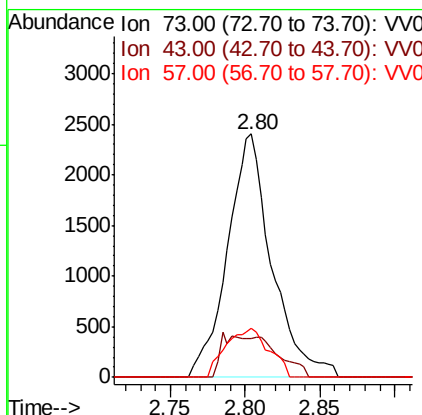
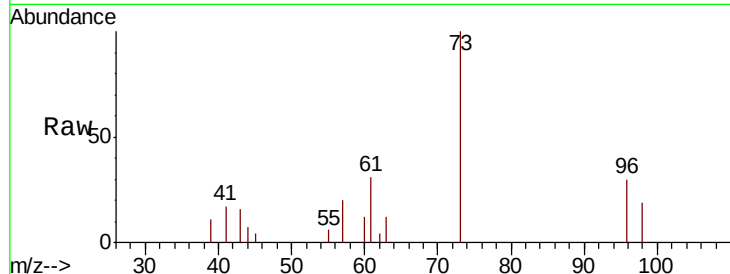
#17
Methyl tert-butyl Ether
Concen: 0.882 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
73	100		
43	3.0	14.9	22.3#
57	19.5	16.0	24.0

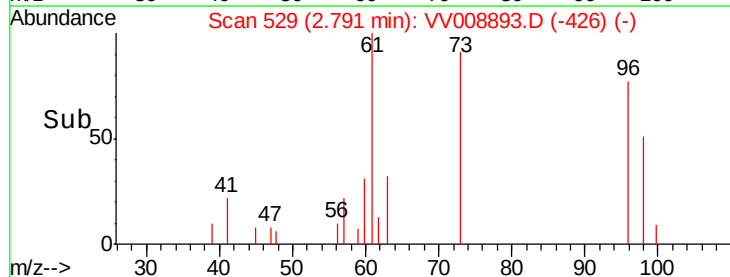
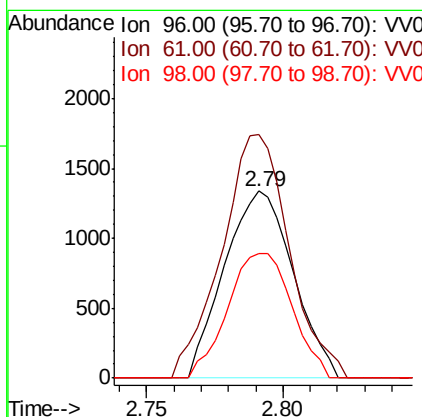
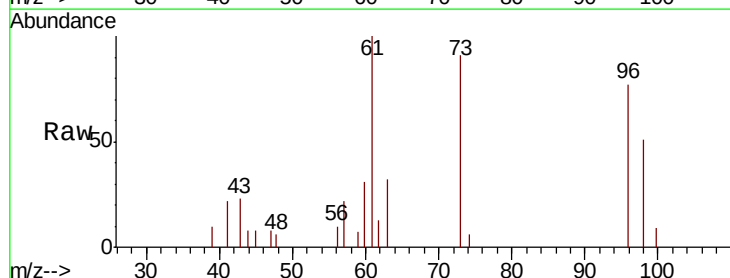
Manual Integrations
APPROVED

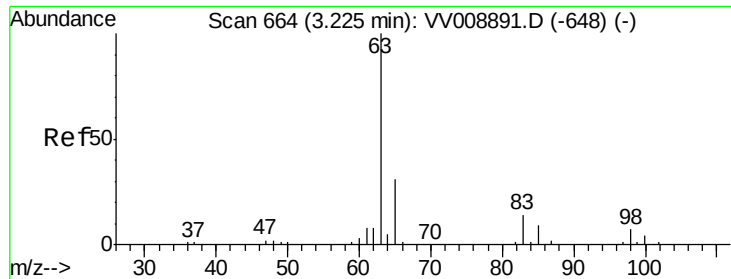
sam
12/12/2018 11:26:20 AM



#18
trans-1,2-Dichloroethene
Concen: 0.873 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	130.3	94.6	175.8
98	66.9	45.3	84.1





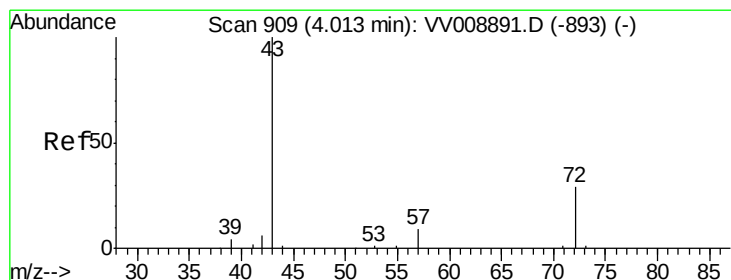
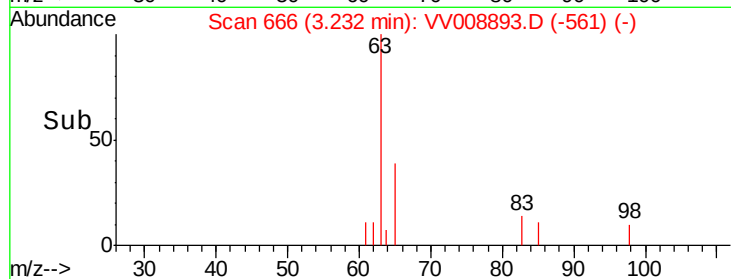
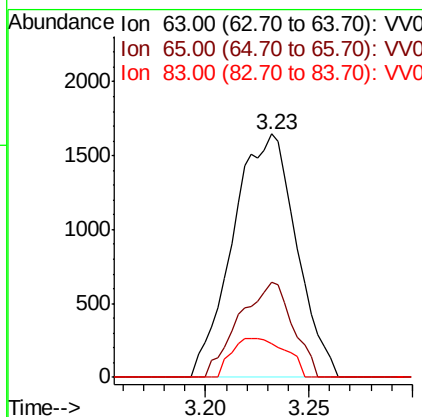
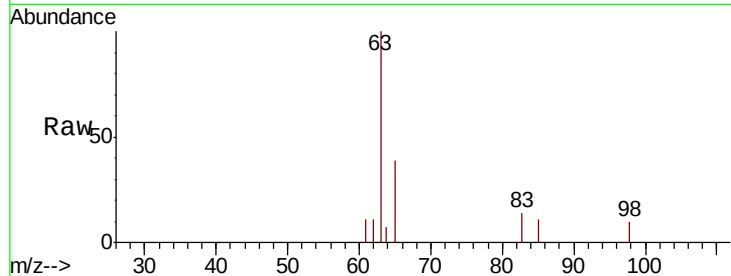
#19
 1,1-Dichloroethane
 Concen: 0.812 ug/L m
 RT: 3.23 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
63	100		
65	38.9	22.7	42.1
83	13.9	10.2	19.0

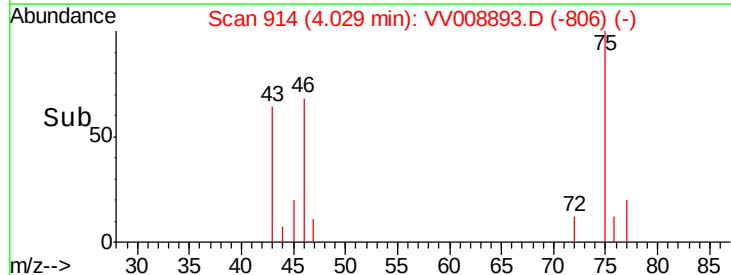
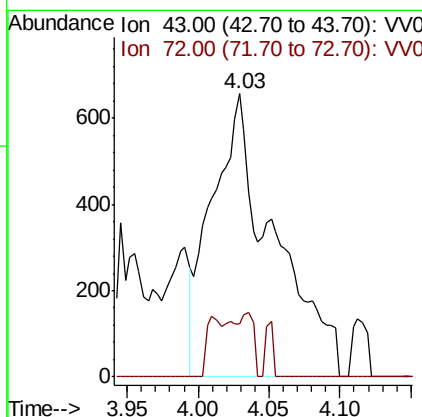
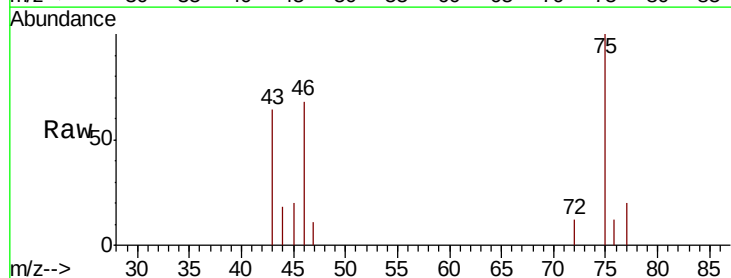
Manual Integrations
 APPROVED

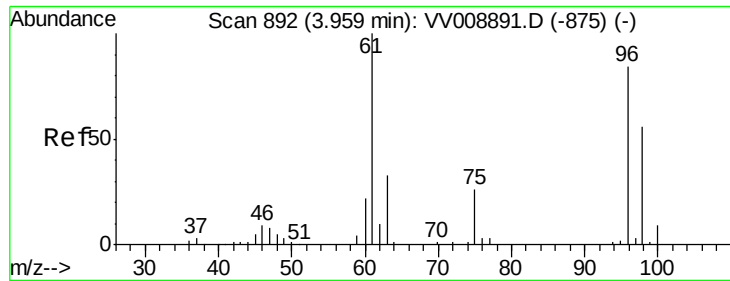
sam
 12/12/2018 11:26:20 AM



#21
 2-Butanone
 Concen: 2.000 ug/L m
 RT: 4.03 min Scan# 914
 Delta R.T. 0.02 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	4.9	13.7	41.1#





#22

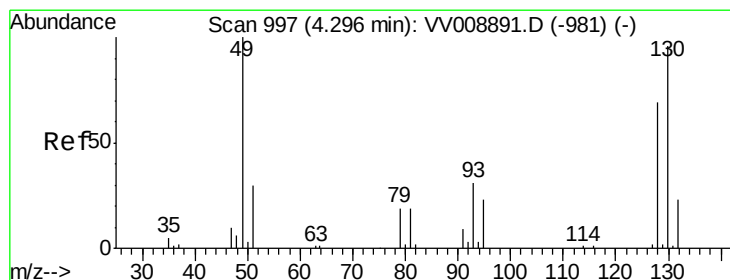
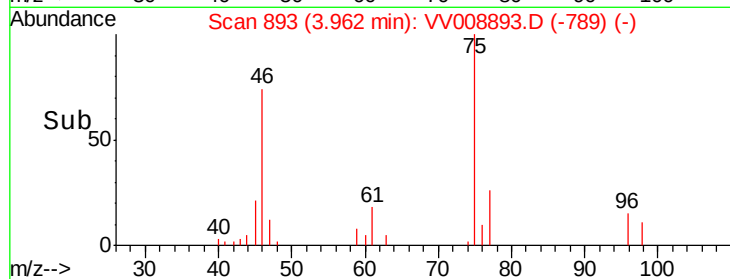
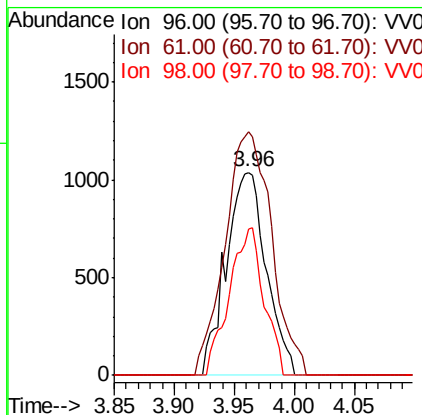
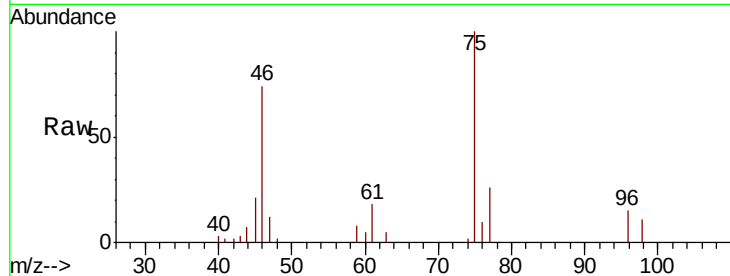
cis-1,2-Dichloroethene
 Concen: 0.868 ug/L m
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
96	100		
61	120.1	86.2	160.0
98	72.0	45.6	84.6

Manual Integrations
 APPROVED

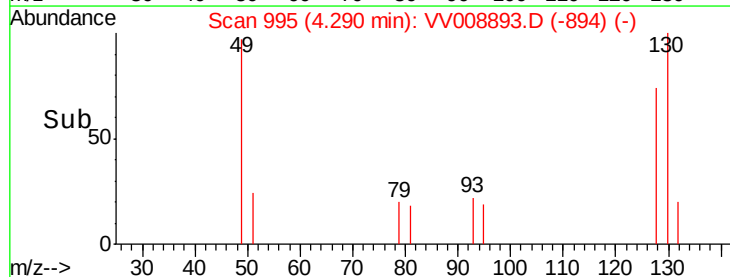
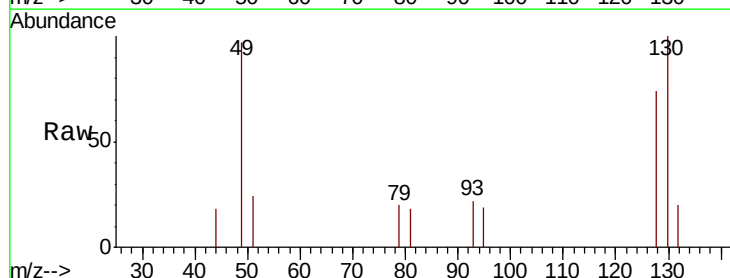
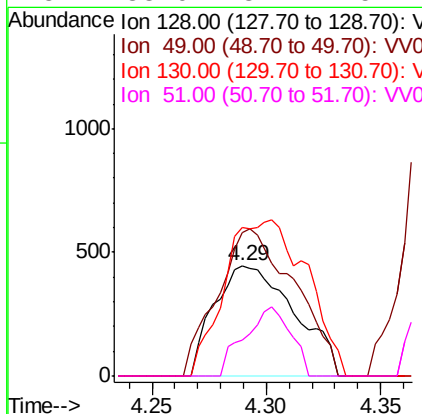
sam
 12/12/2018 11:26:20 AM

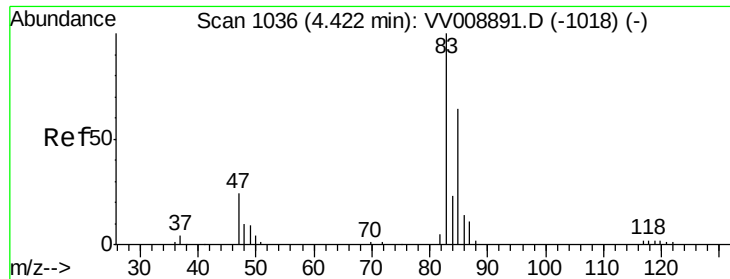


#23

Bromochloromethane
 Concen: 0.828 ug/L m
 RT: 4.29 min Scan# 995
 Delta R.T. -0.01 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
128	100		
49	130.5	93.8	174.2
130	134.8	90.4	168.0
51	33.0	34.2	51.4#





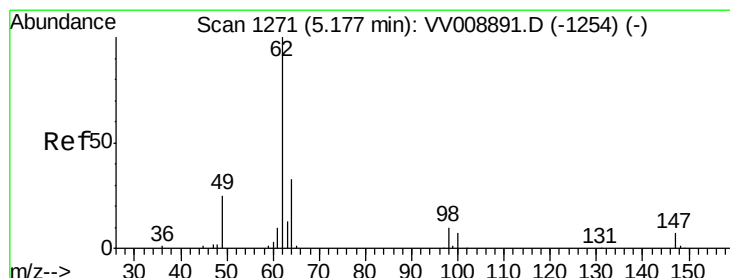
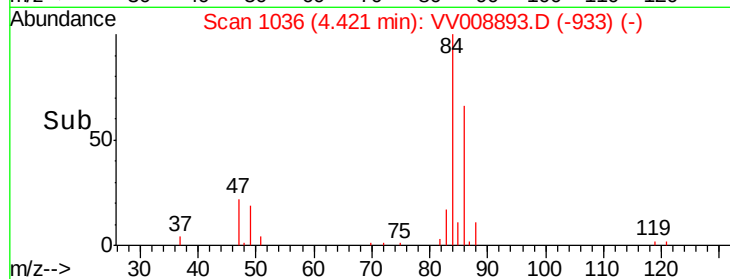
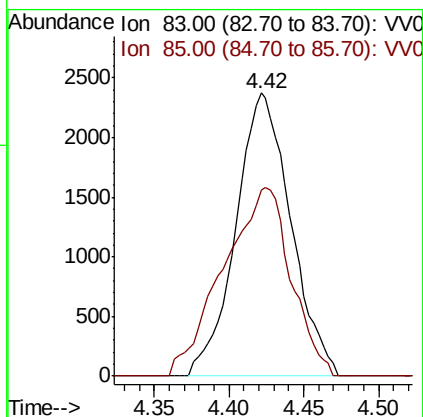
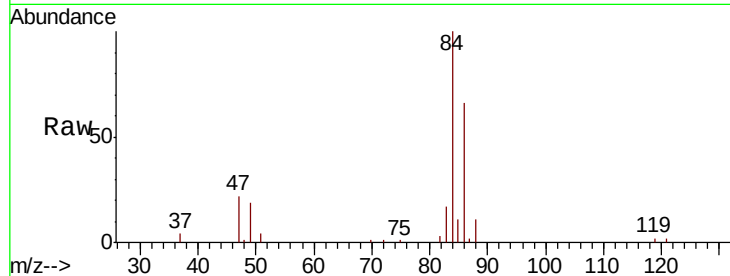
#25
Chloroform
Concen: 1.304 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion	83	85	Resp	Lower	Upper
6064	100	82.1		45.6	84.8

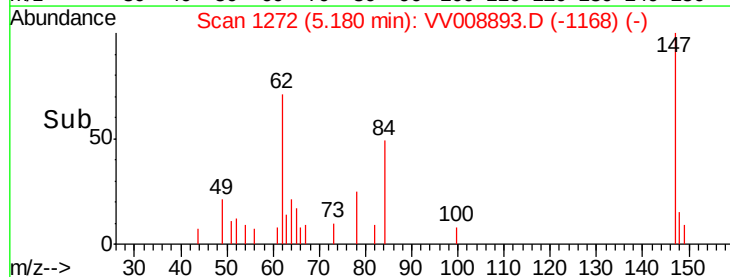
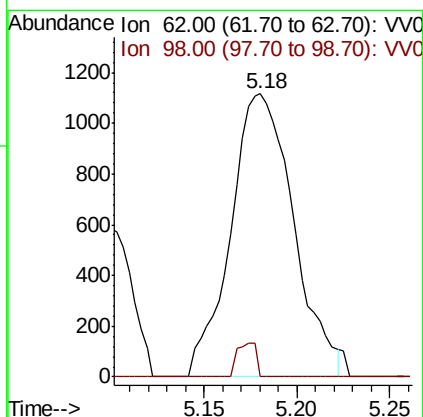
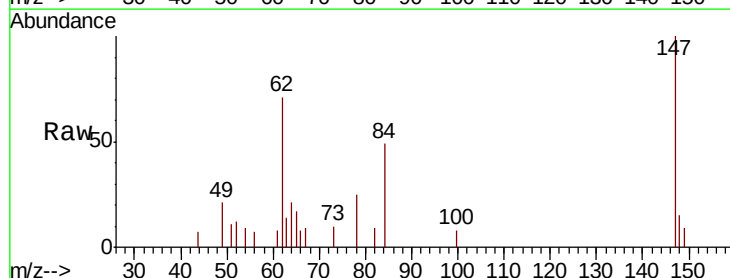
Manual Integrations
APPROVED

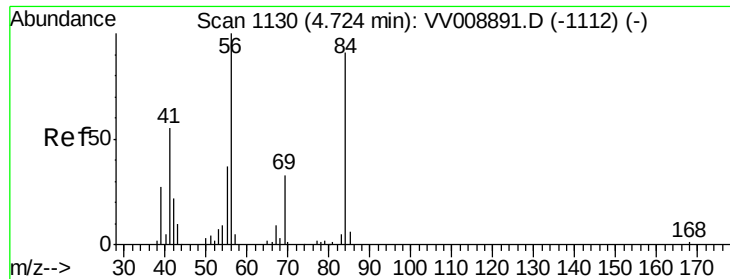
sam
12/12/2018 11:26:20 AM



#27
1,2-Dichloroethane
Concen: 0.832 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion	62	98	Resp	Lower	Upper
2635	100	0.0		7.4	11.0#





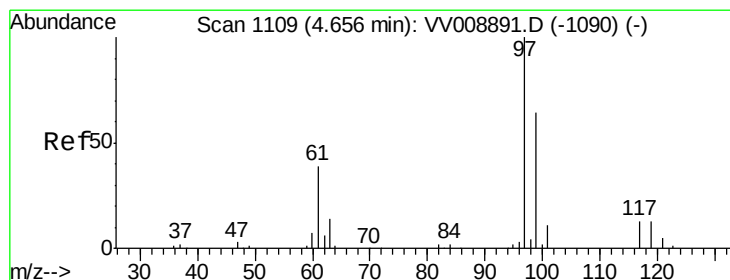
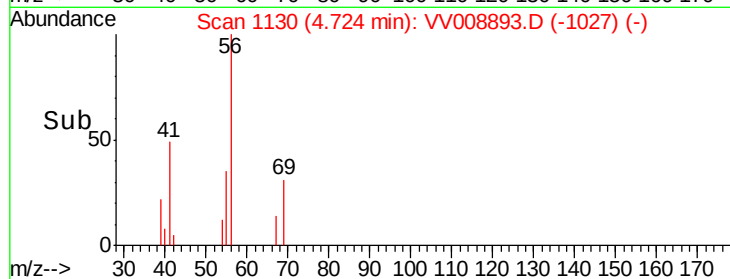
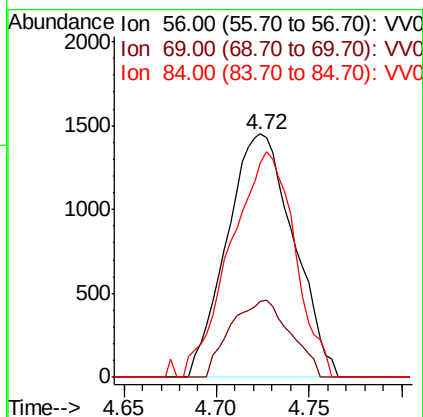
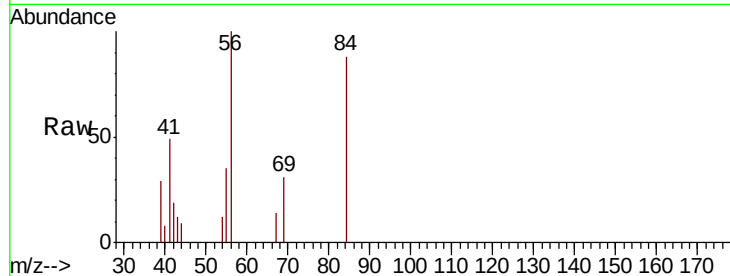
#30
Cyclohexane
Concen: 0.850 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.4	25.8	38.8
84	88.7	73.0	109.6

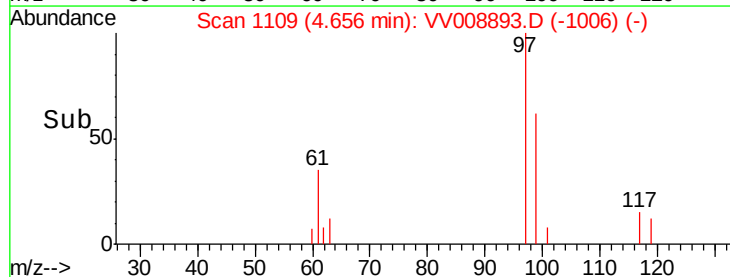
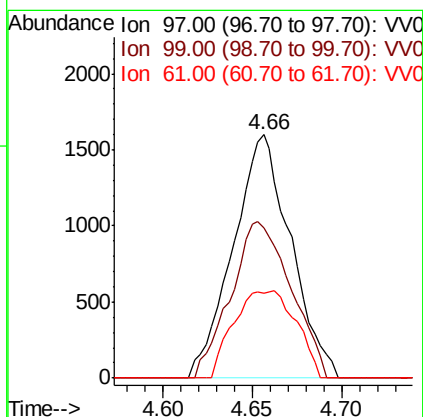
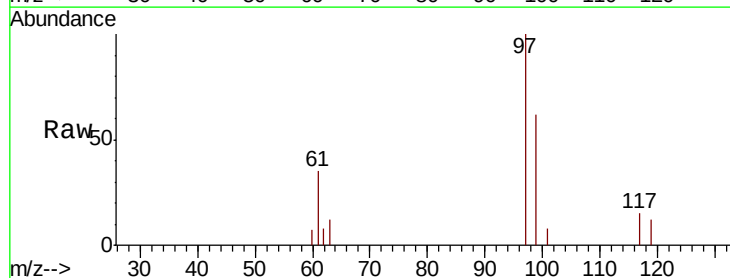
Manual Integrations
APPROVED

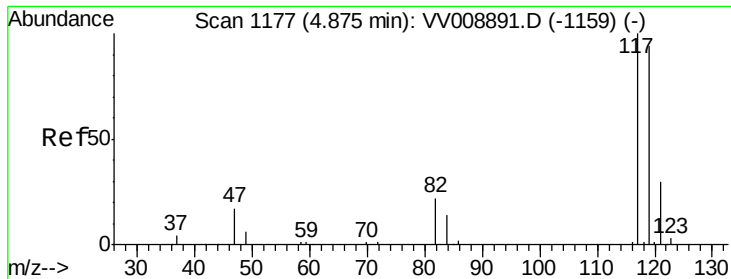
sam
12/12/2018 11:26:20 AM



#31
1,1,1-Trichloroethane
Concen: 0.827 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.9	51.9	77.9
61	19.9	33.1	49.7#





#32

Carbon tetrachloride

Concen: 0.830 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion:117 Resp: 3307

Ion Ratio Lower Upper

117 100

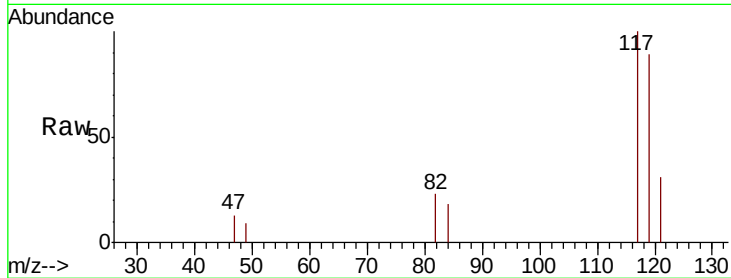
119 97.1 77.1 115.7

Manual Integrations

APPROVED

sam

12/12/2018 11:26:20 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

1500

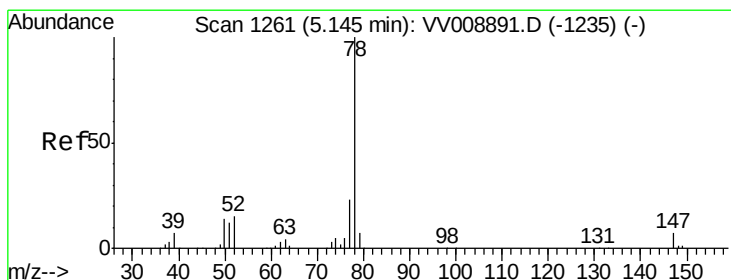
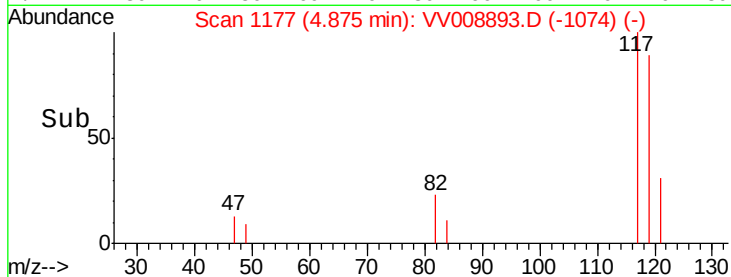
1000

500

0

4.80 4.85 4.90

Time-->



#34

Benzene

Concen: 0.828 ug/L

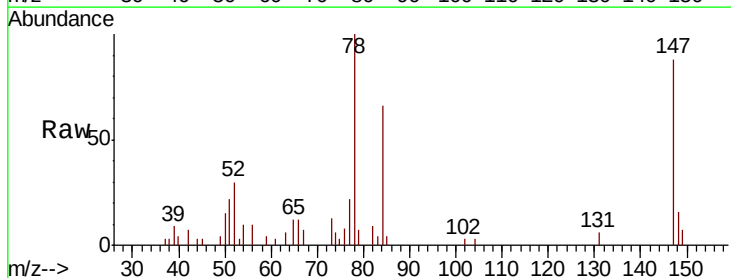
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Tgt Ion: 78 Resp: 8396



Abundance Ion 78.00 (77.70 to 78.70): VV0

4000

3000

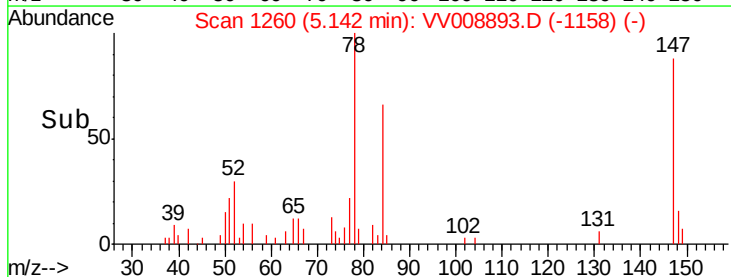
2000

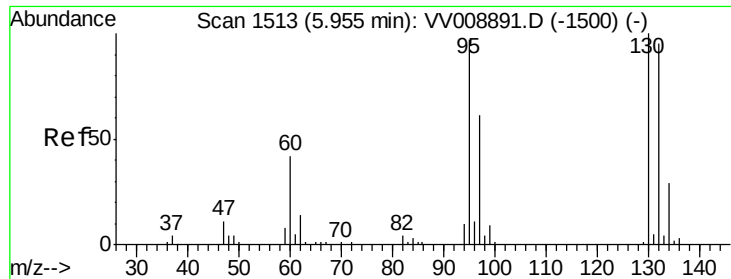
1000

0

5.10 5.15 5.20

Time-->





#35

Trichloroethene

Concen: 0.992 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.01 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Instrument :

MSVOA_V

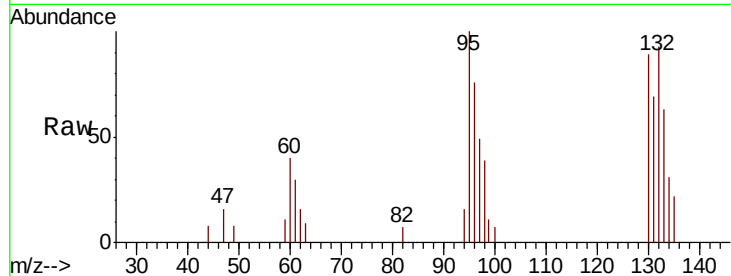
ClientSampled :

MDL01

Tot Ion:	95	Resp:	3031
Ion	Ratio	Lower	Upper
95	100		
97	62.1	45.3	84.1
132	102.2	70.0	130.0
130	100.2	73.4	136.4

Manual Integrations
APPROVED

sam
12/12/2018 11:26:20 AM



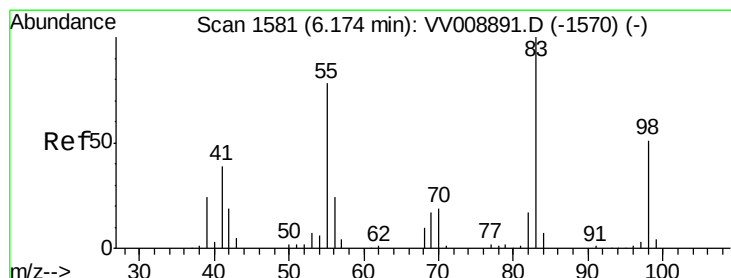
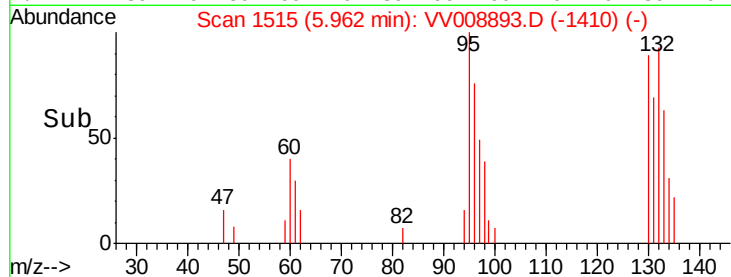
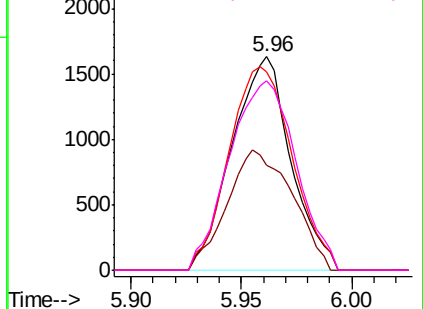
Abundance

Ion 95.00 (94.70 to 95.70): VV008893.D (-1500) (-)

Ion 97.00 (96.70 to 97.70): VV008893.D (-1500) (-)

Ion 132.00 (131.70 to 132.70): VV008893.D (-1500) (-)

Ion 130.00 (129.70 to 130.70): VV008893.D (-1500) (-)



#36

Methylcyclohexane

Concen: 0.800 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

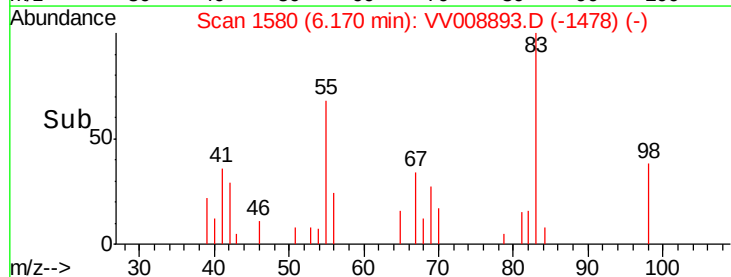
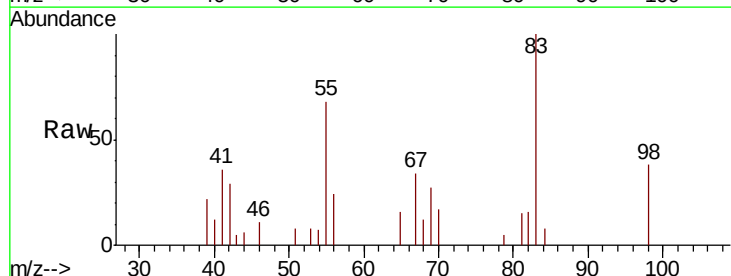
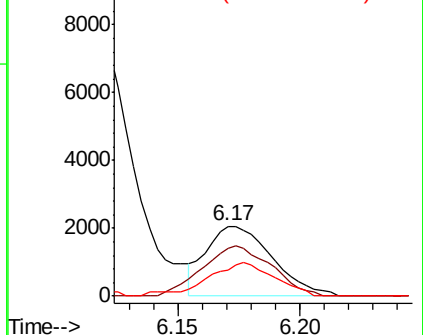
Tgt Ion:	83	Resp:	3898
Ion	Ratio	Lower	Upper
83	100		
55	75.0	58.2	87.2
98	46.0	37.8	56.8

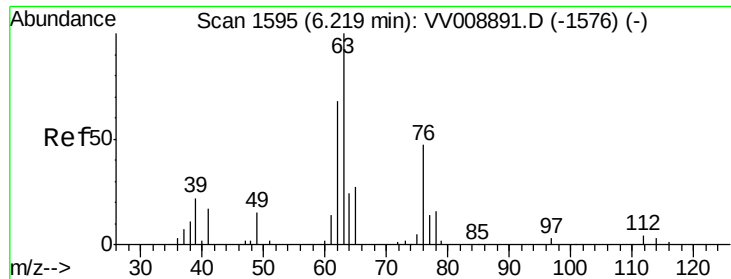
Abundance

Ion 83.00 (82.70 to 83.70): VV008893.D (-1478) (-)

Ion 55.00 (54.70 to 55.70): VV008893.D (-1478) (-)

Ion 98.00 (97.70 to 98.70): VV008893.D (-1478) (-)





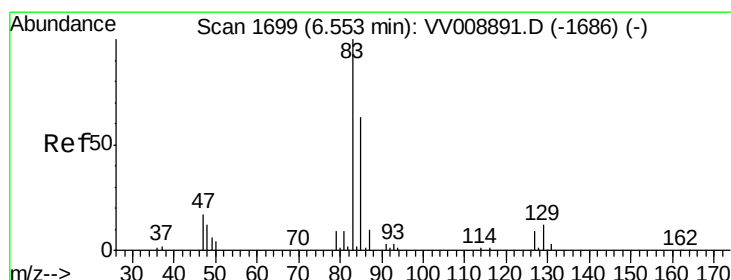
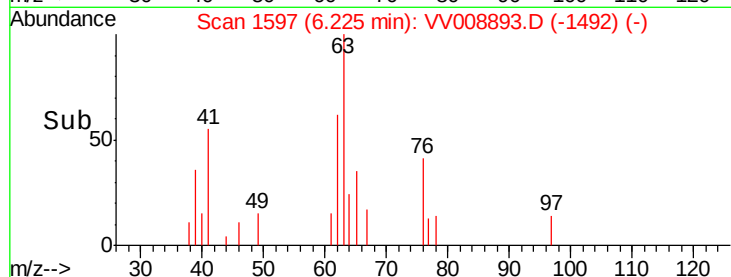
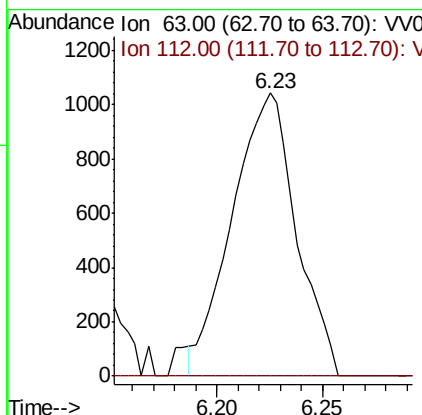
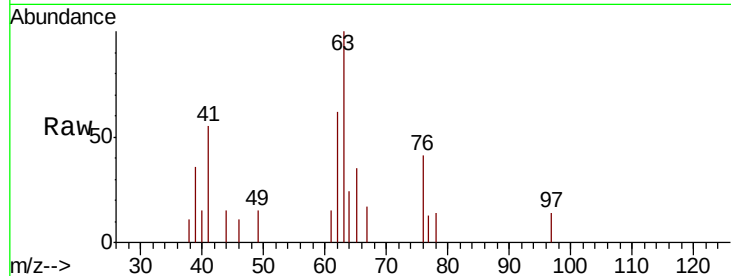
#40
 1,2-Dichloropropane
 Concen: 0.905 ug/L
 RT: 6.23 min Scan# 1597
 Delta R.T. 0.01 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 2201
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.8 5.8#

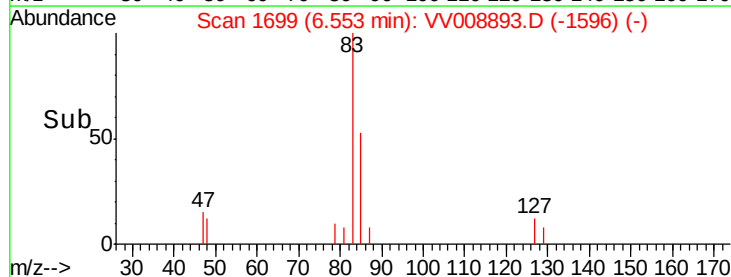
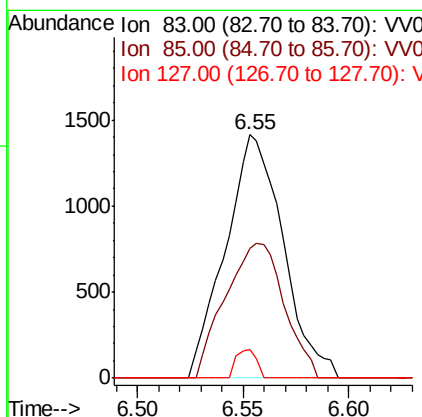
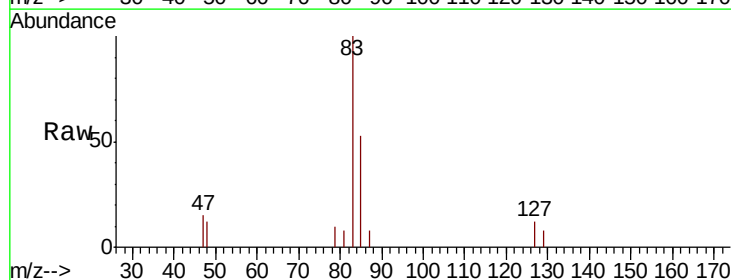
Manual Integrations
 APPROVED

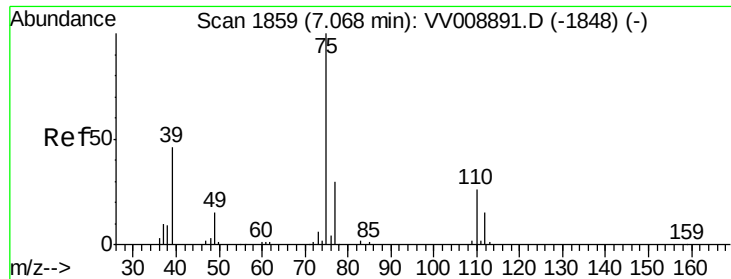
sam
 12/12/2018 11:26:20 AM



#41
 Bromodichloromethane
 Concen: 0.839 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Tgt Ion: 83 Resp: 2690
 Ion Ratio Lower Upper
 83 100
 85 53.1 45.3 84.1
 127 11.7 7.2 10.8#





#42

cis-1,3-Dichloropropene

Concen: 0.882 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 75 Resp: 3143

Ion Ratio Lower Upper

75 100

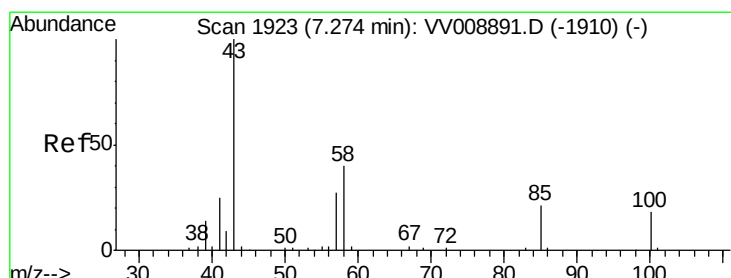
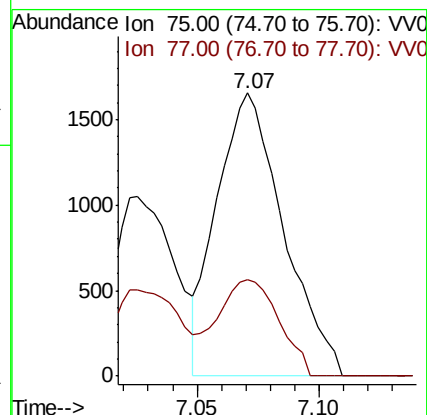
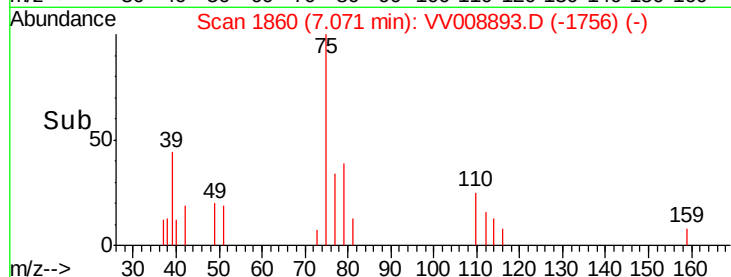
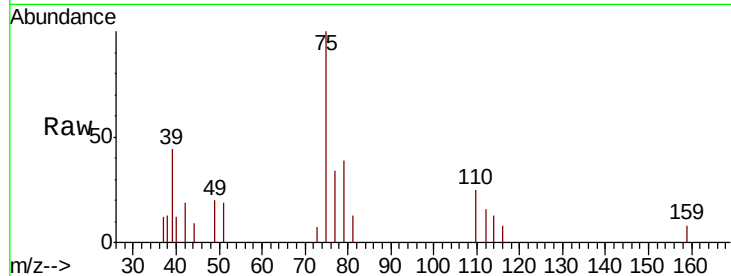
77 34.0 21.3 39.6

Manual Integrations

APPROVED

sam

12/12/2018 11:26:20 AM



#43

4-Methyl-2-pentanone

Concen: 2.289 ug/L

RT: 7.28 min Scan# 1924

Delta R.T. 0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

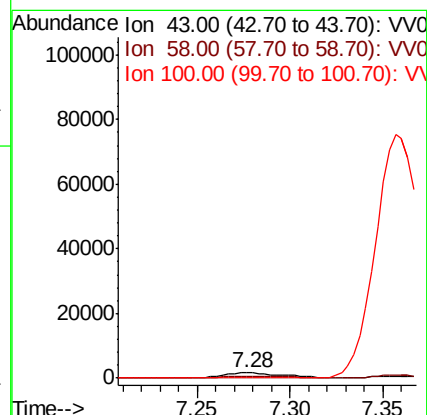
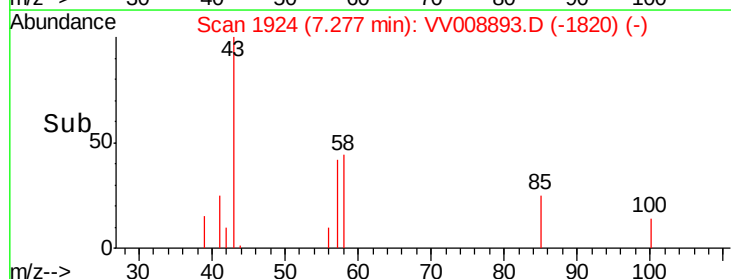
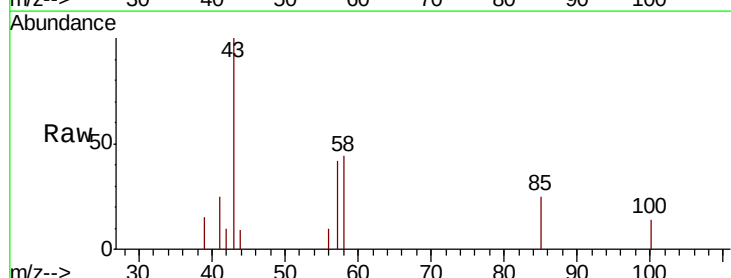
Tgt Ion: 43 Resp: 3763

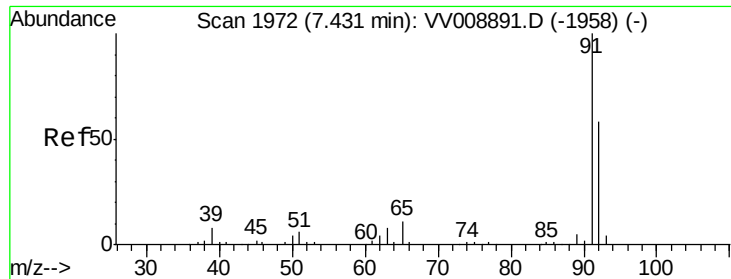
Ion Ratio Lower Upper

43 100

58 29.3 32.2 48.4#

100 5.5 13.8 20.8#





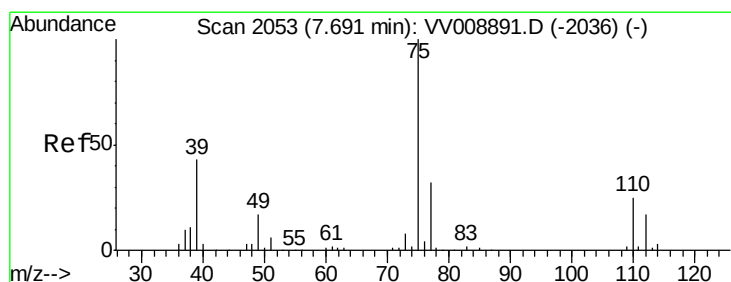
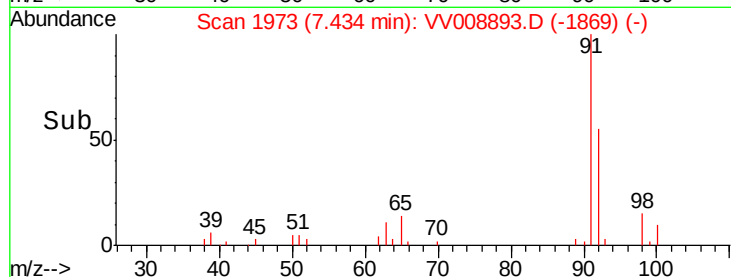
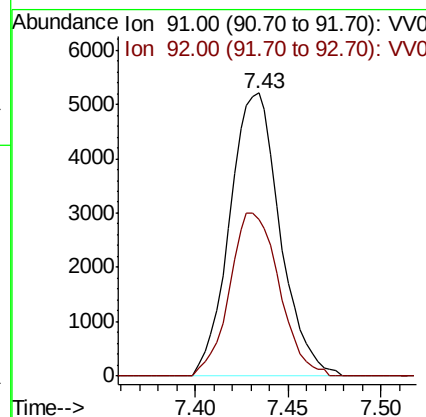
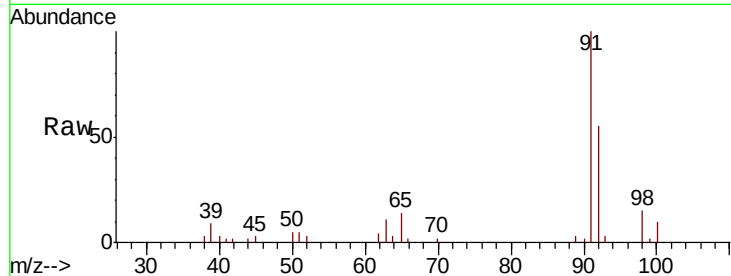
#44
Toluene
Concen: 0.921 ug/L
RT: 7.43 min Scan# 1973
Delta R.T. 0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion: 91 Resp: 9789
Ion Ratio Lower Upper
91 100
92 55.4 41.7 77.5

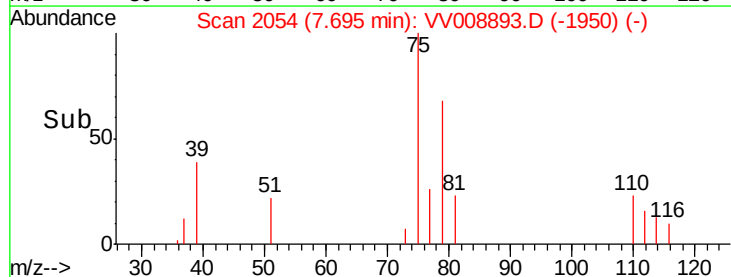
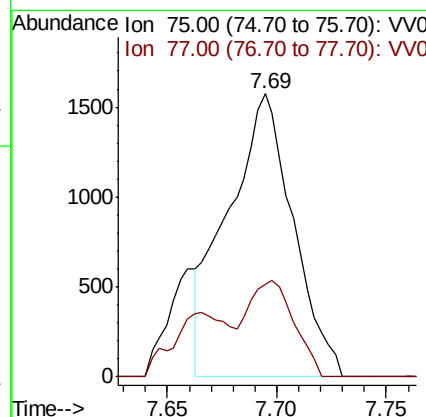
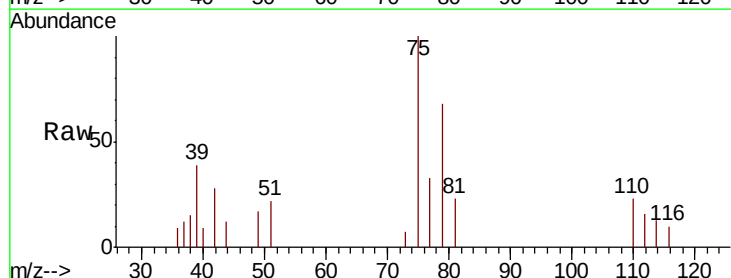
Manual Integrations
APPROVED

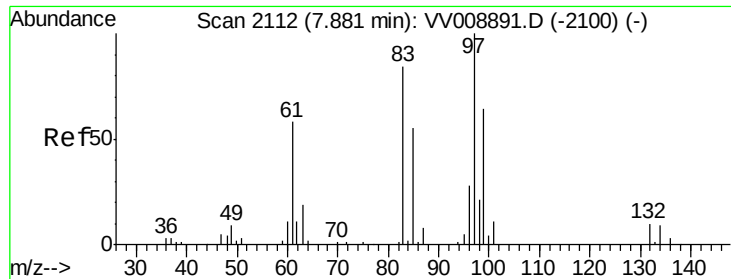
sam
12/12/2018 11:26:20 AM



#45
trans-1,3-Dichloropropene
Concen: 1.057 ug/L m
RT: 7.69 min Scan# 2054
Delta R.T. 0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion: 75 Resp: 3282
Ion Ratio Lower Upper
75 100
77 32.9 23.6 43.8





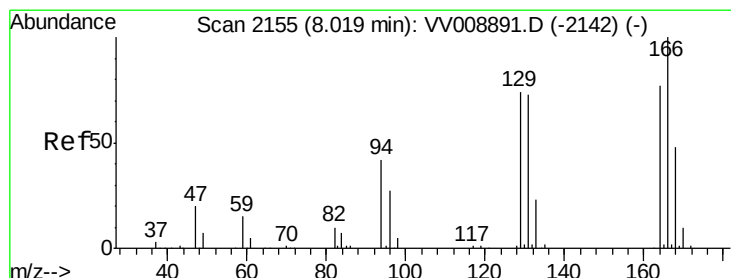
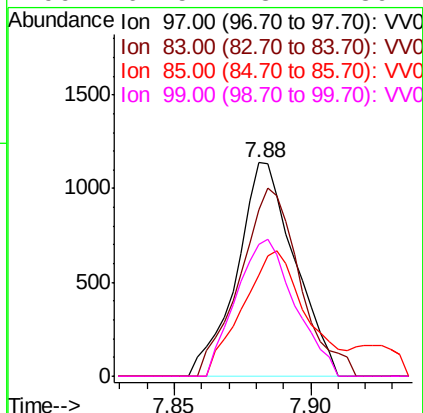
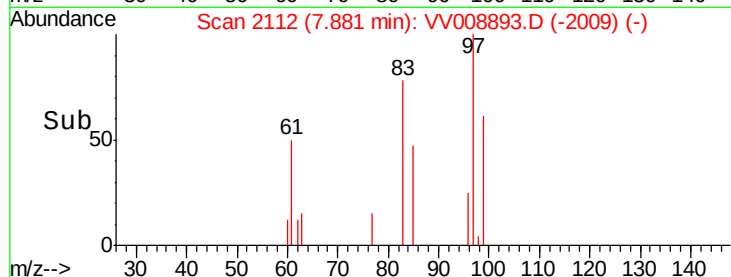
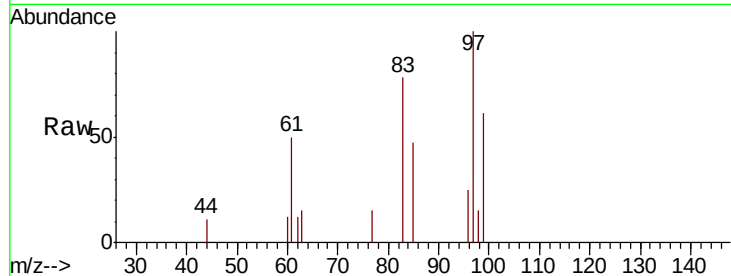
#46
1,1,2-Trichloroethane
Concen: 0.826 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion:	97	Resp:	1675
Ion	Ratio	Lower	Upper
97	100		
83	77.7	56.6	105.2
85	47.1	36.6	68.0
99	61.5	43.2	80.2

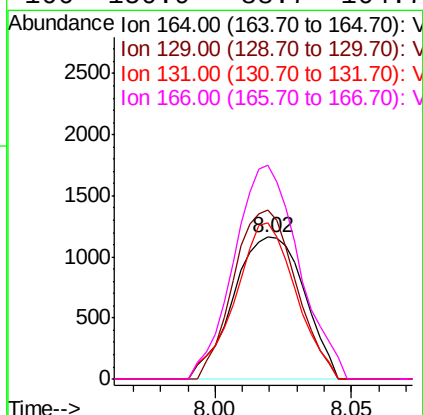
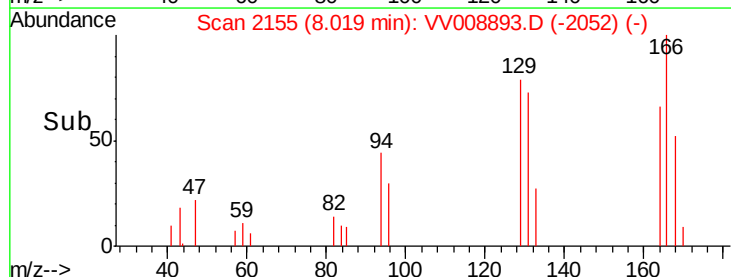
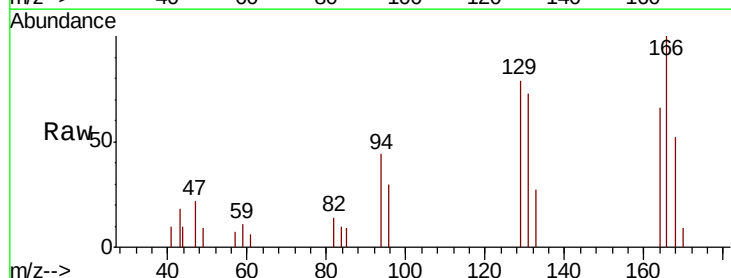
Manual Integrations
APPROVED

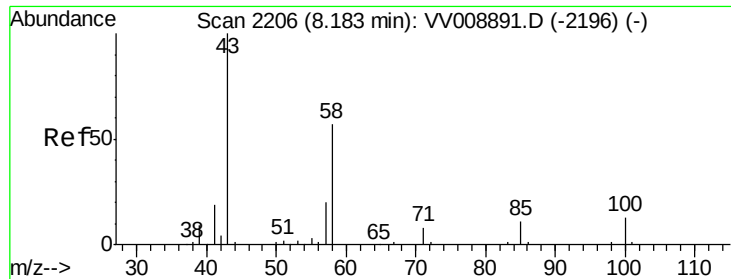
sam
12/12/2018 11:26:20 AM



#47
Tetrachloroethene
Concen: 0.847 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion:	164	Resp:	2105
Ion	Ratio	Lower	Upper
164	100		
129	119.4	64.6	120.0
131	110.0	64.5	119.7
166	150.9	88.7	164.7





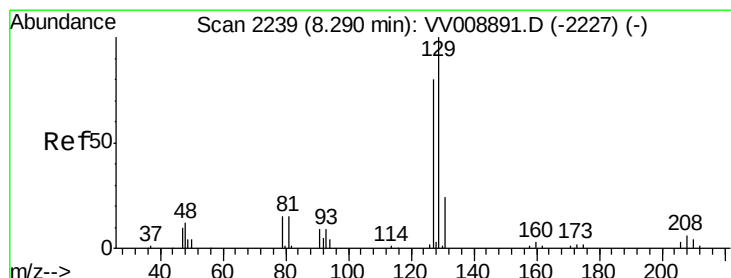
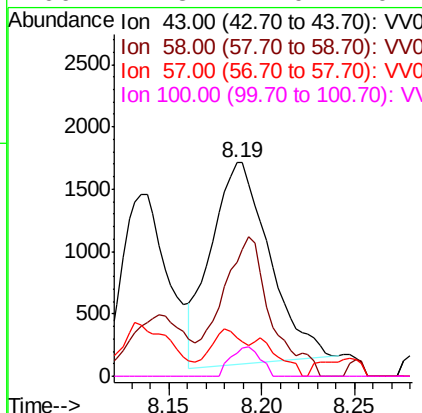
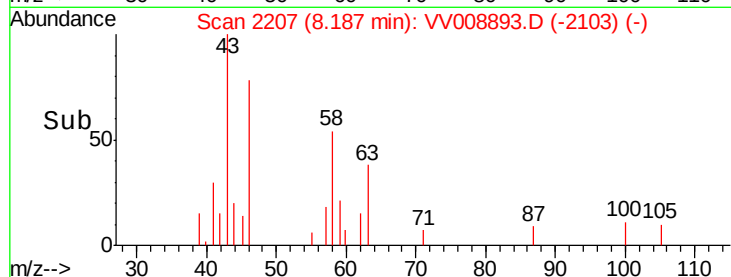
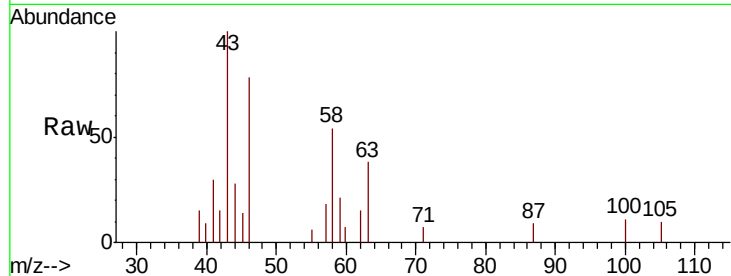
#49
2-Hexanone
Concen: 2.594 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
43	100		
58	44.3	43.9	65.9
57	5.4	15.7	23.5#
100	7.3	11.0	16.4#

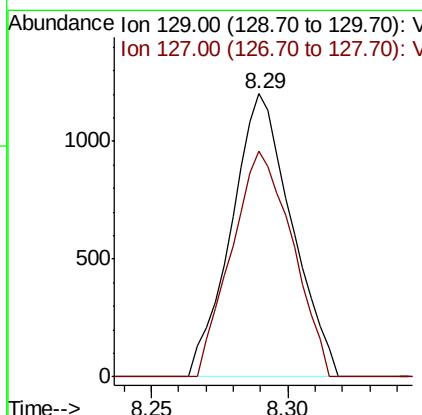
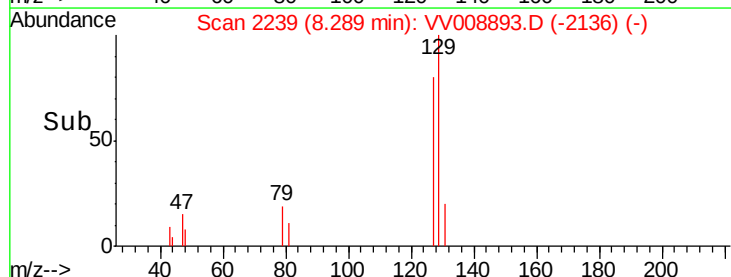
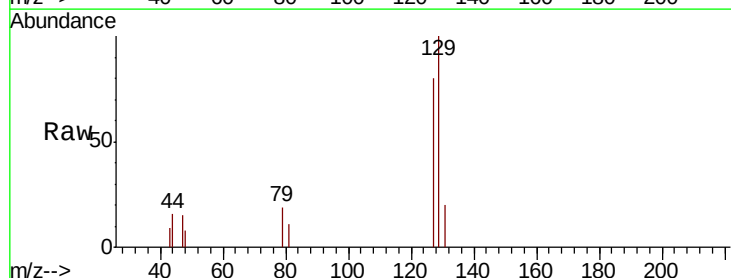
Manual Integrations
APPROVED

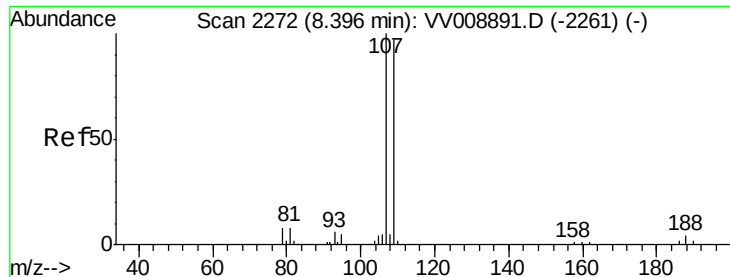
sam
12/12/2018 11:26:20 AM



#50
Dibromochloromethane
Concen: 0.794 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.0	53.5	99.3





#51

1,2-Dibromoethane

Concen: 0.814 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Instrument :

MSVOA_V

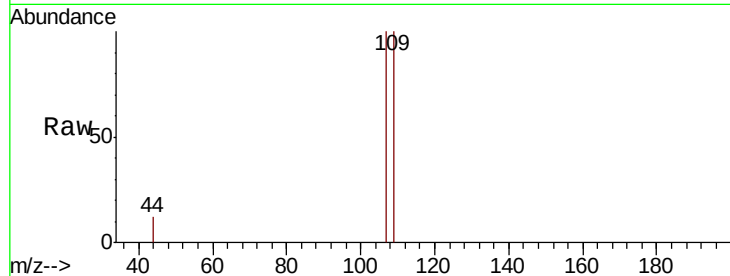
ClientSampled :

MDL01

Tot Ion:	107	Resp:	1657
Ion Ratio	Lower	Upper	
107	100		
109	100.3	65.8	122.2
188	0.0	3.0	4.6#

Manual Integrations
APPROVED

sam
12/12/2018 11:26:20 AM

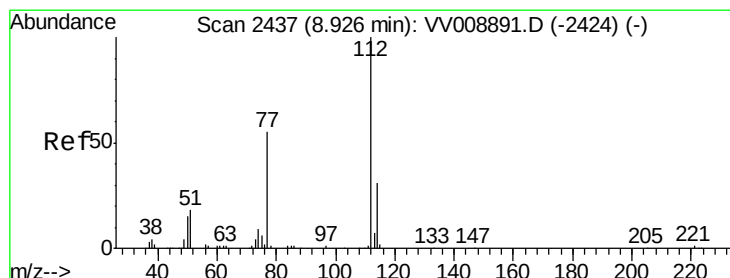
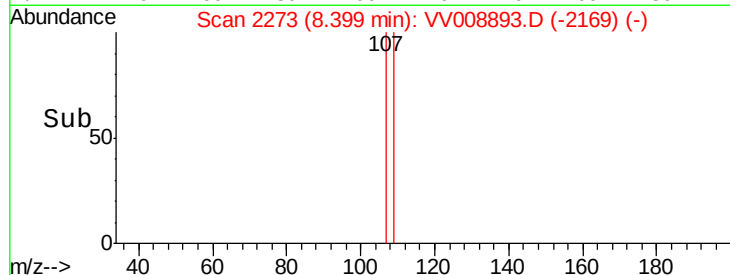
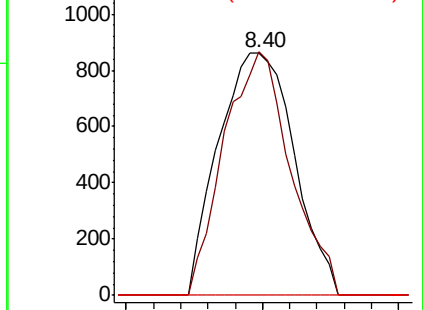


Abundance

Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 0.942 ug/L

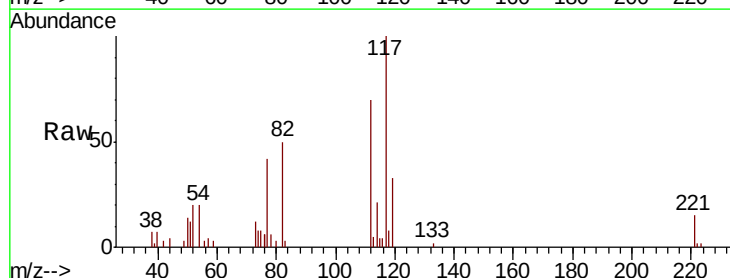
RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Tgt Ion:	112	Resp:	6519
Ion Ratio	Lower	Upper	
112	100		
77	60.3	44.6	66.8
114	29.5	22.6	42.0

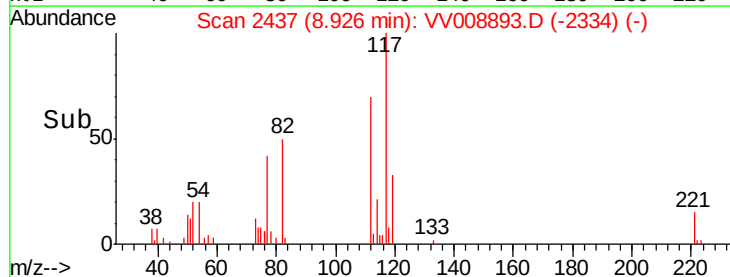
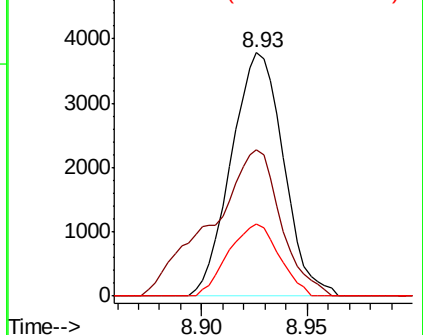


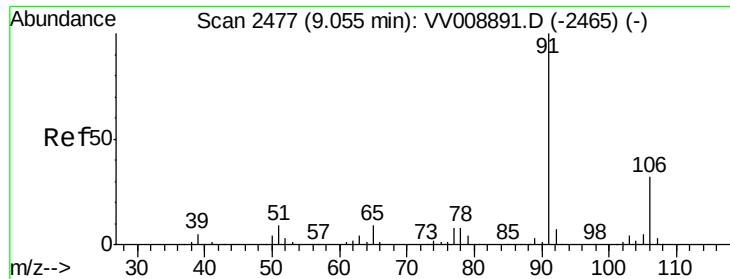
Abundance

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





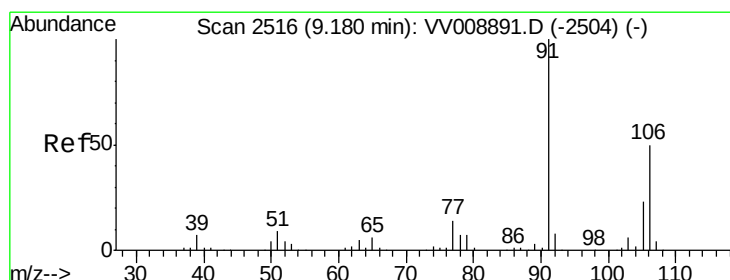
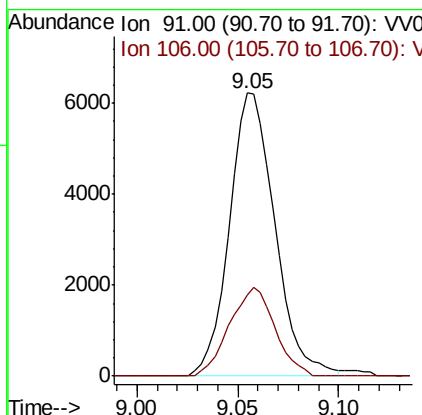
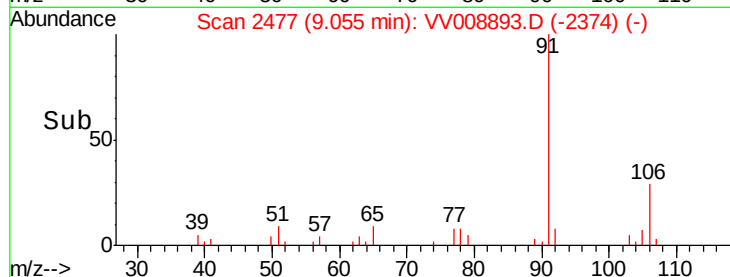
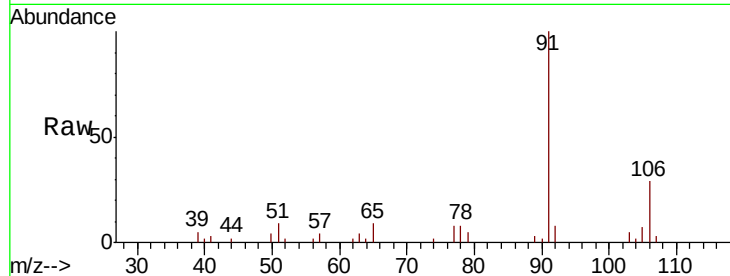
#53
Ethylbenzene
Concen: 0.852 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion: 91 Resp: 9821
Ion Ratio Lower Upper
91 100
106 28.7 21.3 39.5

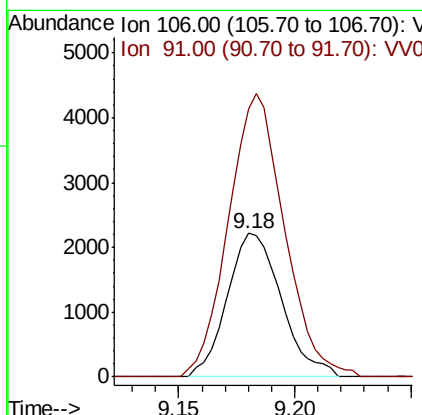
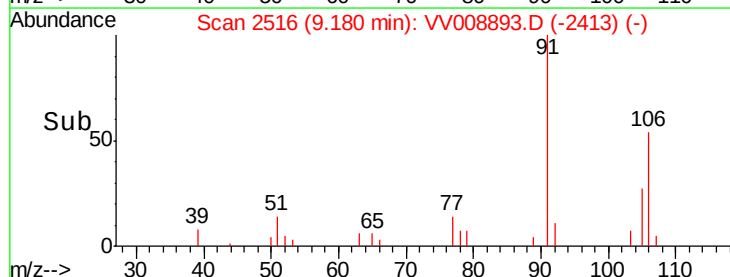
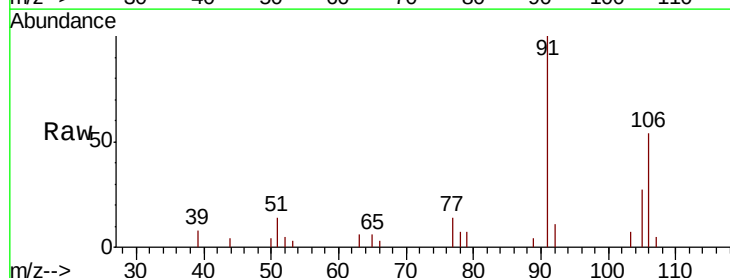
Manual Integrations
APPROVED

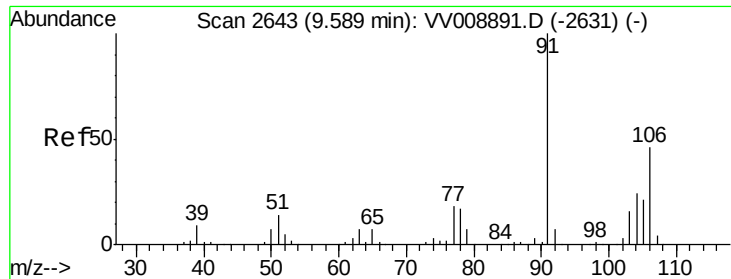
sam
12/12/2018 11:26:20 AM



#54
m,p-Xylene
Concen: 0.826 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion: 106 Resp: 3607
Ion Ratio Lower Upper
106 100
91 186.8 141.3 262.3





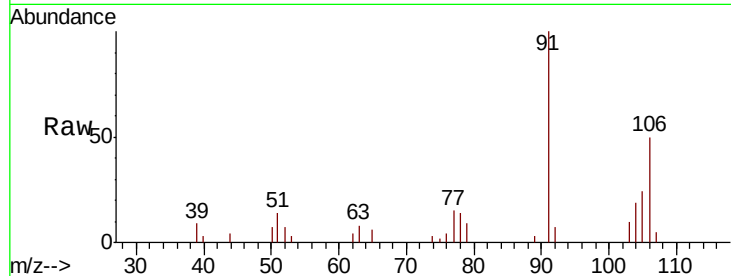
#55
o-xylene
Concen: 0.818 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampled :
MDL01

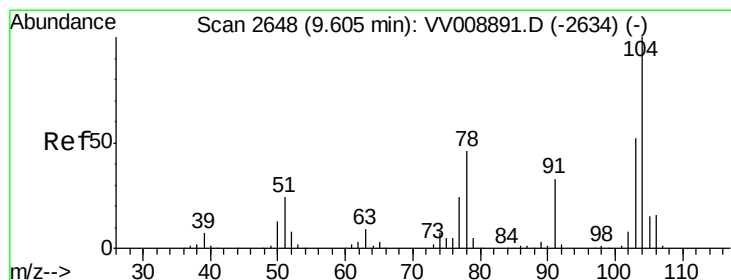
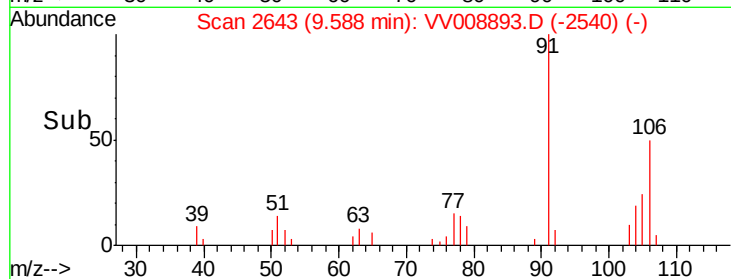
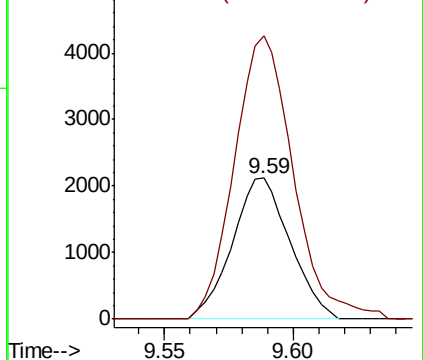
Tot Ion:106 Resp: 3318
Ion Ratio Lower Upper
106 100
91 200.4 148.3 275.5

Manual Integrations
APPROVED

sam
12/12/2018 11:26:20 AM

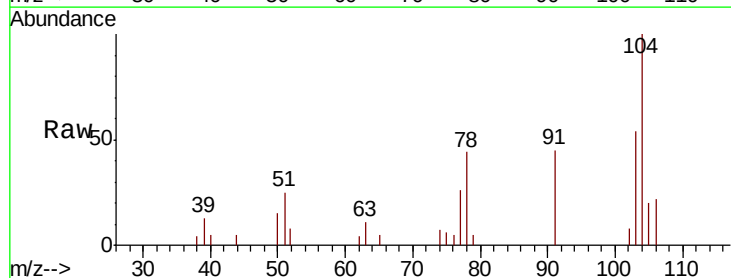


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

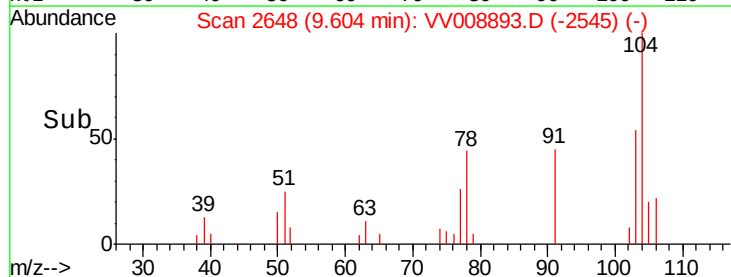
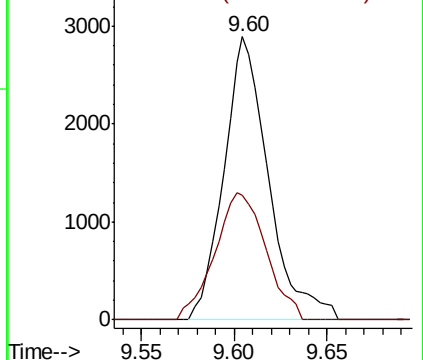


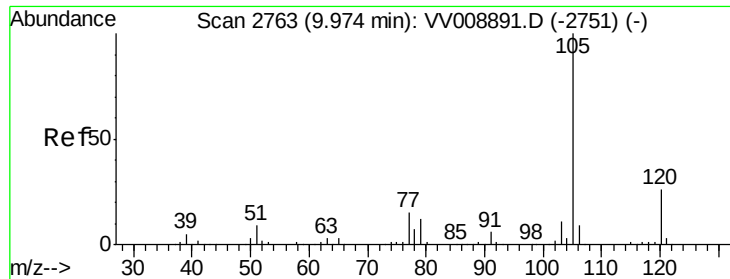
#56
Styrene
Concen: 0.738 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion:104 Resp: 4829
Ion Ratio Lower Upper
104 100
78 44.1 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 0.795 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Instrument :

MSVOA_V

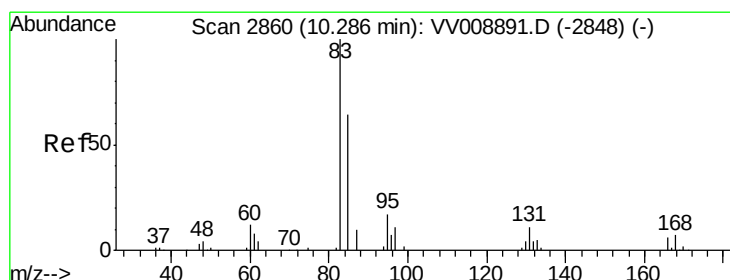
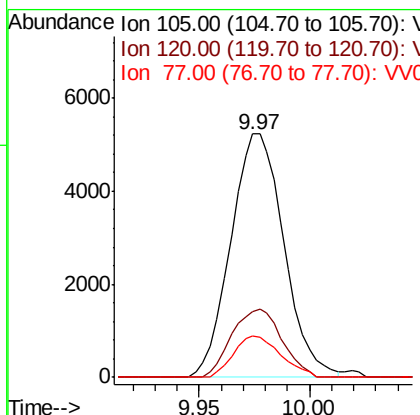
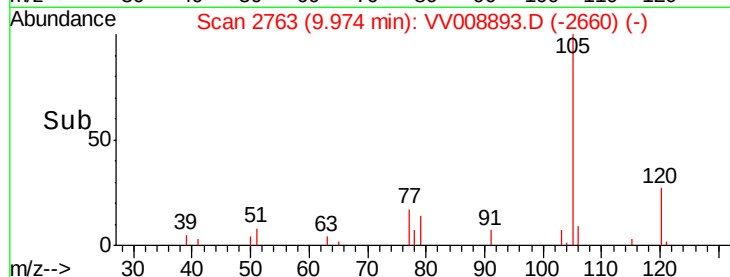
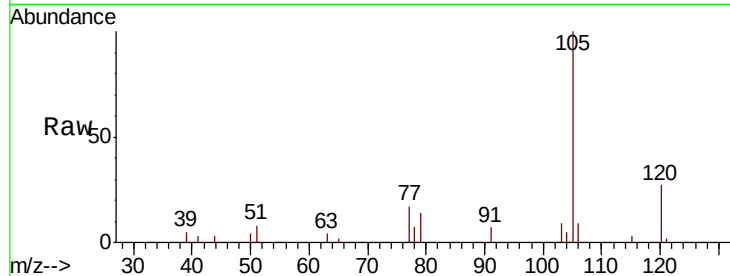
ClientSampleId :

MDL01

Tot Ion:	105	Resp:	8770
Ion Ratio	Lower	Upper	
105	100		
120	26.4	21.7	32.5
77	15.0	12.4	18.6

Manual Integrations
APPROVED

sam
12/12/2018 11:26:20 AM



#58

1,1,2,2-Tetrachloroethane

Concen: 0.959 ug/L

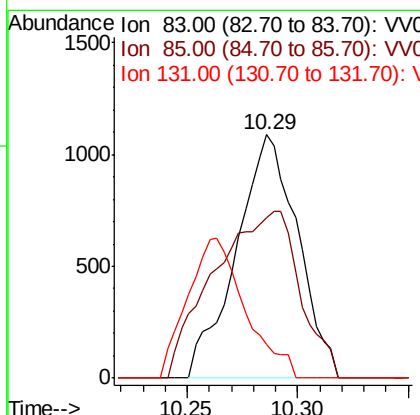
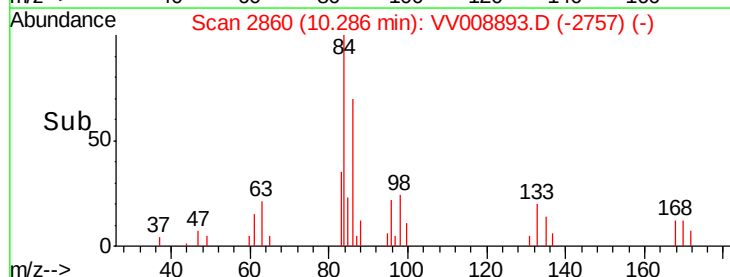
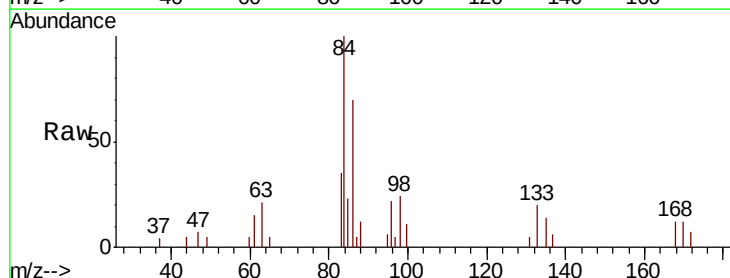
RT: 10.29 min Scan# 2860

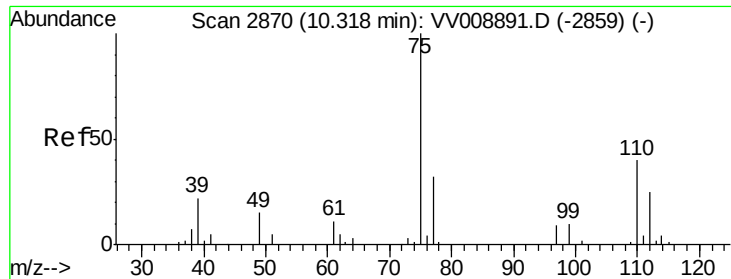
Delta R.T. -0.00 min

Lab File: VV008893.D

Acq: 11 Dec 2018 12:15

Tgt Ion:	83	Resp:	2101
Ion Ratio	Lower	Upper	
83	100		
85	66.0	44.3	82.3
131	14.0	7.8	11.8#





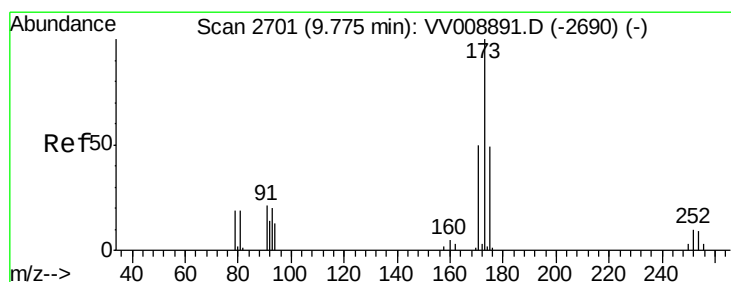
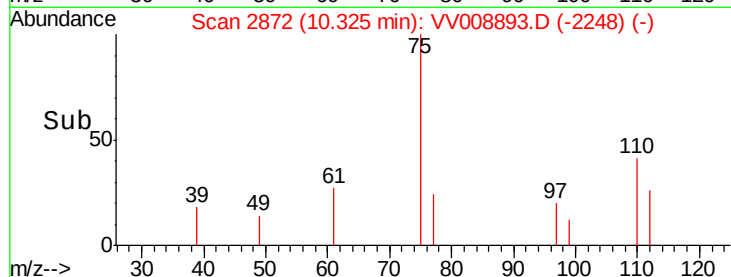
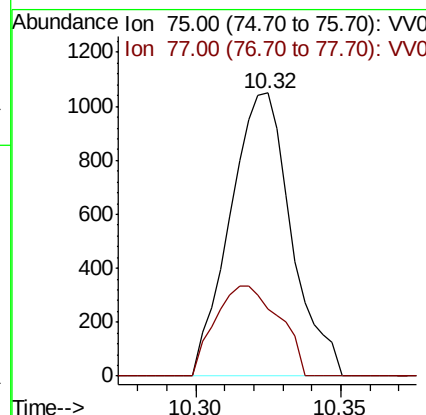
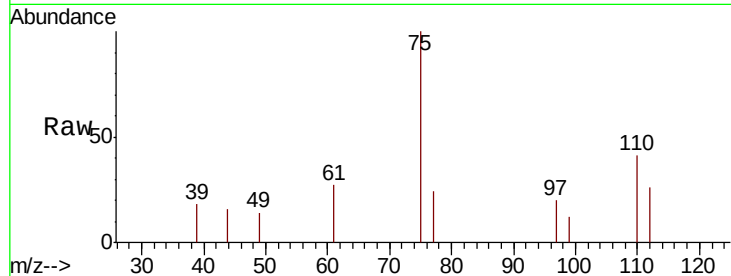
#59
 1,2,3-Trichloropropane
 Concen: 0.814 ug/L
 RT: 10.32 min Scan# 2872
 Delta R.T. 0.01 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion: 75 Resp: 1543
 Ion Ratio Lower Upper
 75 100
 77 33.2 25.6 38.4

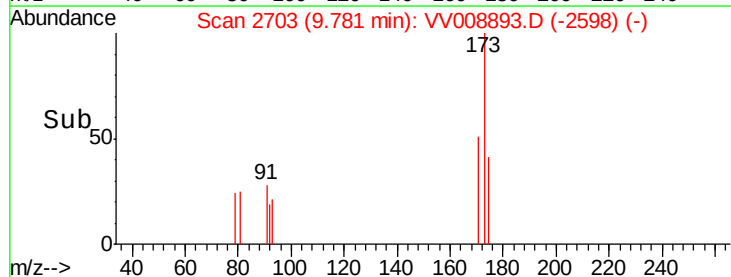
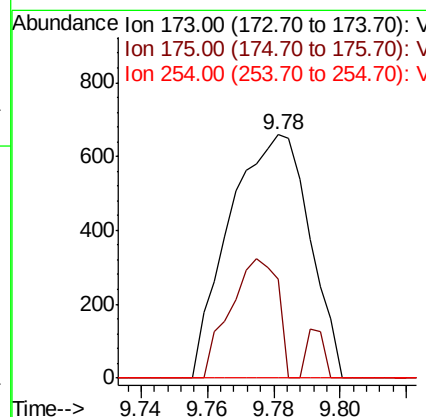
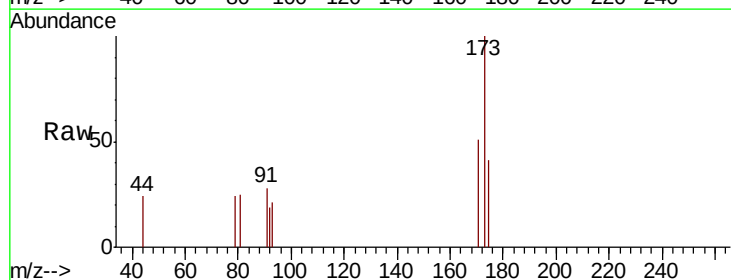
Manual Integrations
 APPROVED

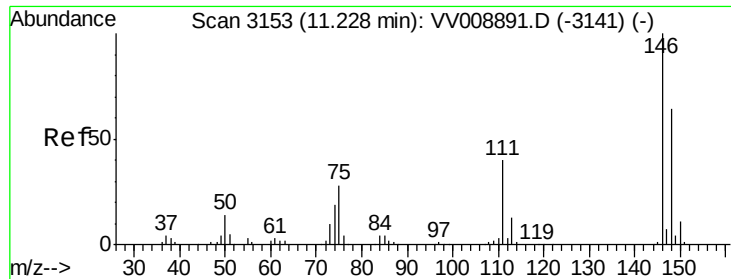
sam
 12/12/2018 11:26:20 AM



#62
 Bromoform
 Concen: 0.868 ug/L
 RT: 9.78 min Scan# 2703
 Delta R.T. 0.01 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Tgt Ion: 173 Resp: 1103
 Ion Ratio Lower Upper
 173 100
 175 29.3 37.7 56.5#
 254 0.0 7.1 10.7#





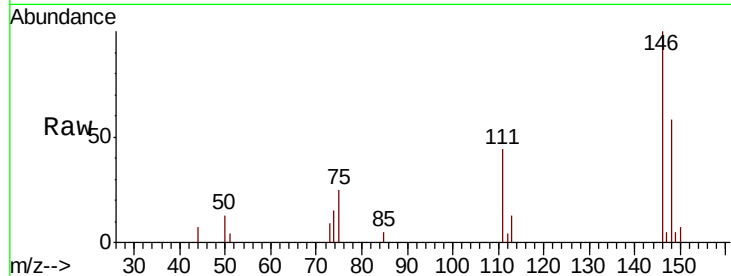
#63
 1,3-Dichlorobenzene
 Concen: 0.931 ug/L
 RT: 11.23 min Scan# 3154
 Delta R.T. 0.00 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.4	27.5	51.1
148	57.5	44.0	81.8

Manual Integrations
 APPROVED

sam
 12/12/2018 11:26:20 AM

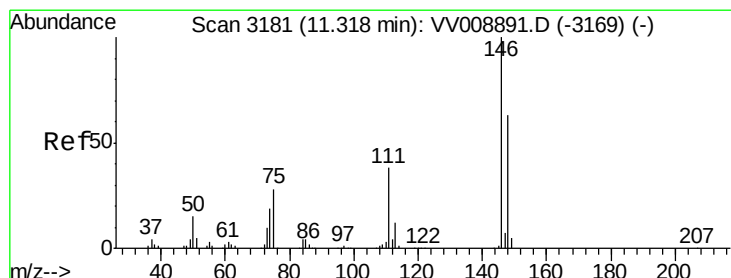
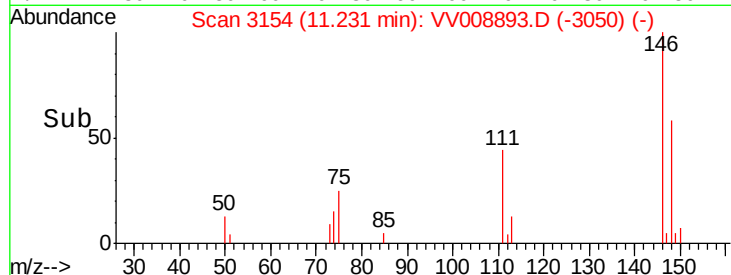
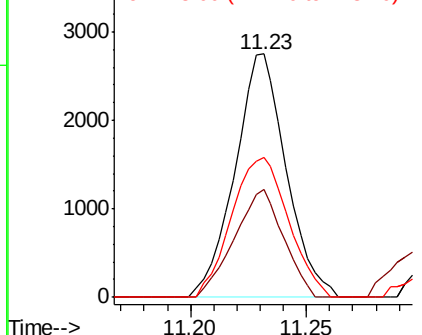


Abundance

Ion 146.00 (145.70 to 146.70): V

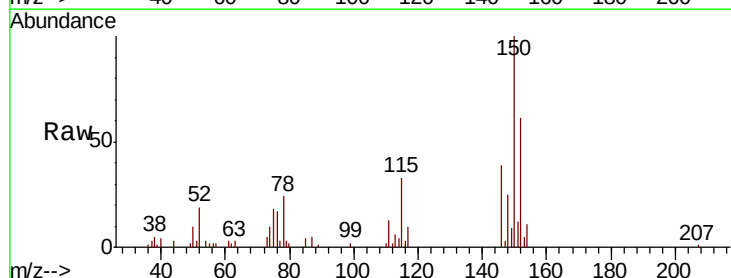
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64
 1,4-Dichlorobenzene
 Concen: 1.066 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.7	26.8	49.8
148	65.4	45.8	85.0

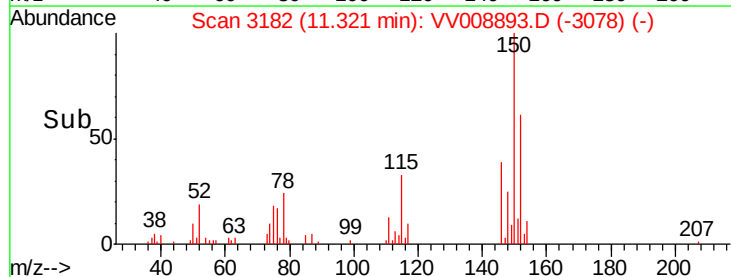
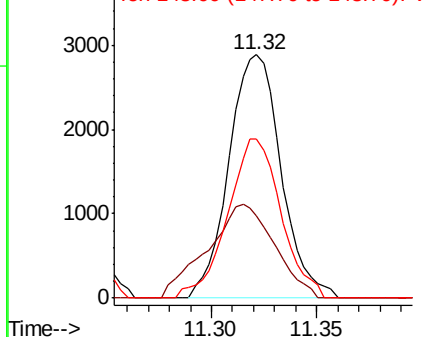


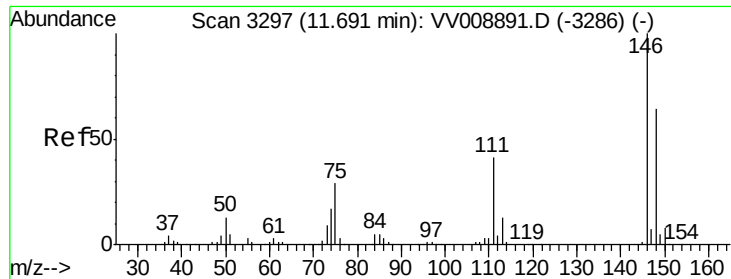
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





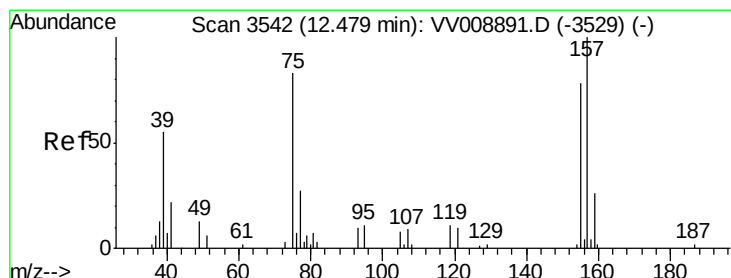
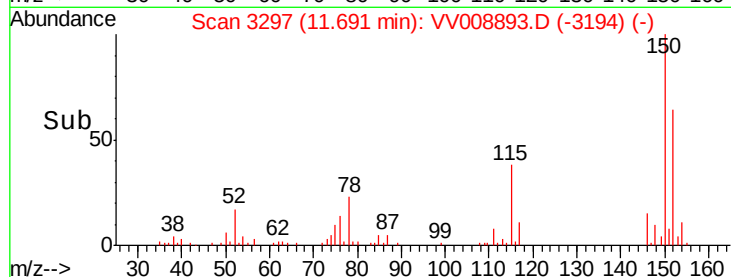
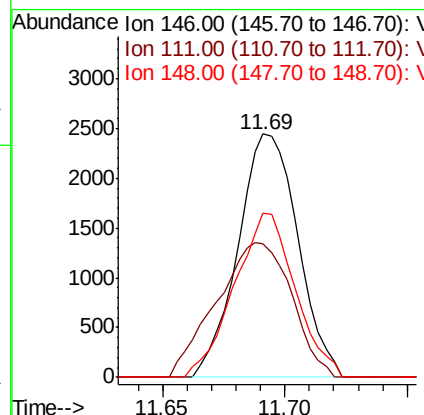
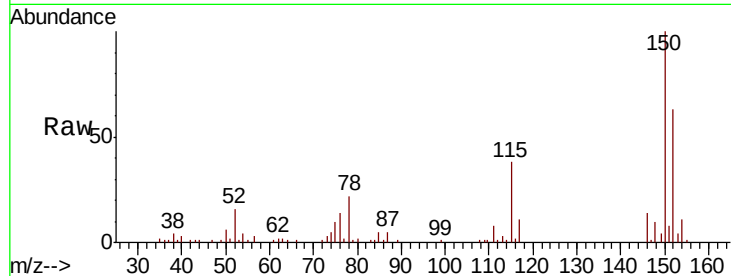
#65
 1,2-Dichlorobenzene
 Concen: 0.994 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	54.8	34.2	51.4#
148	67.6	51.0	76.6

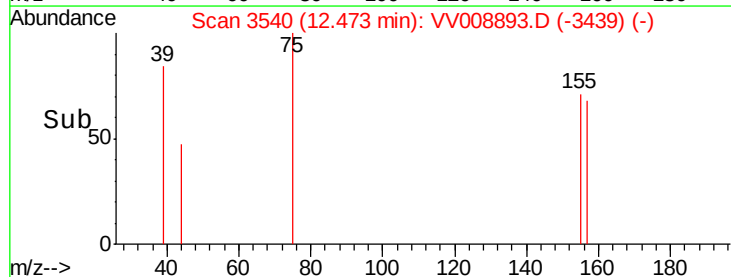
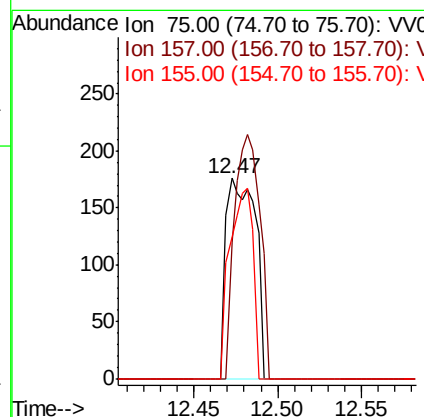
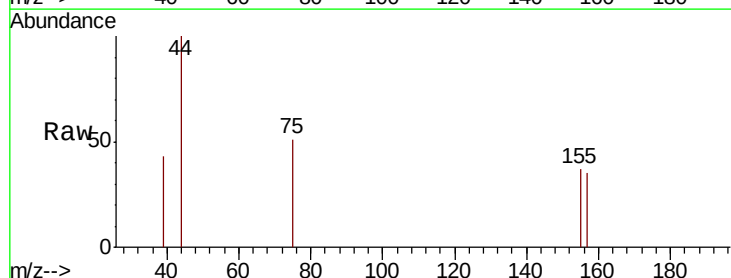
Manual Integrations
 APPROVED

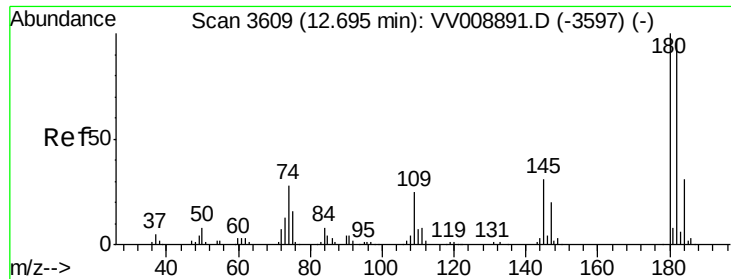
sam
 12/12/2018 11:26:20 AM



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.613 ug/L m
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.01 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
75	100		
157	68.2	95.8	143.6#
155	71.0	71.4	107.2#





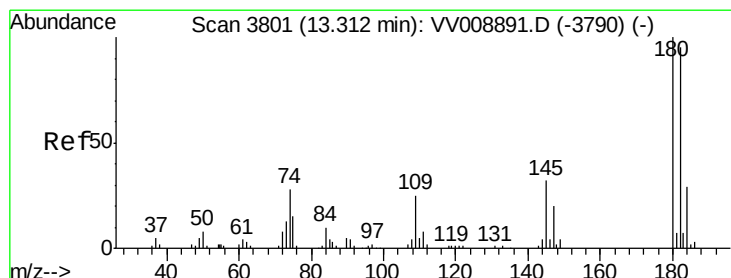
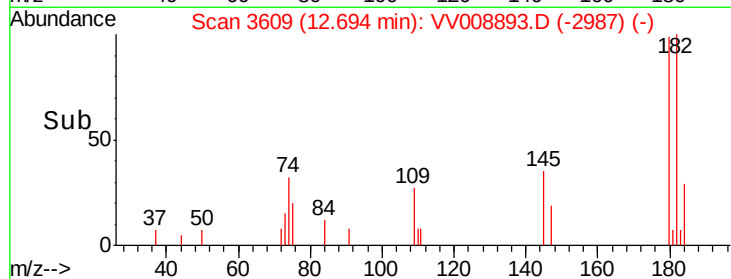
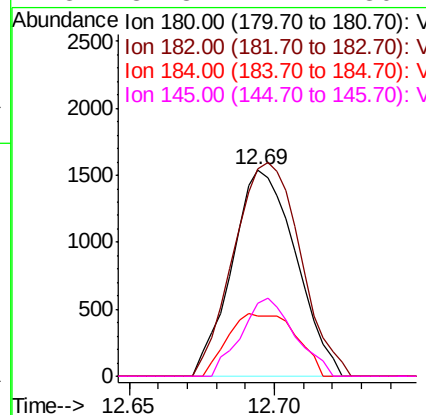
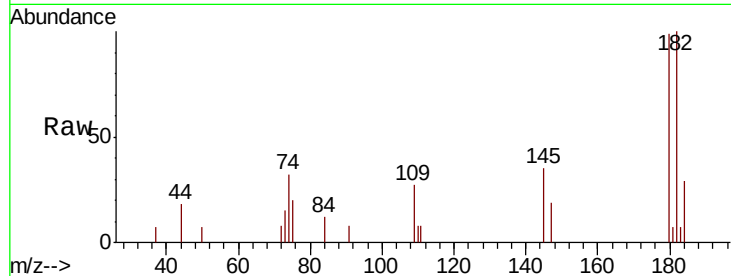
#67
 1,3,5-Trichlorobenzene
 Concen: 0.718 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Instrument :
 MSVOA_V
 ClientSampleID :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	108.3	75.9	113.9
184	19.8	23.8	35.6
145	31.8	24.2	36.4

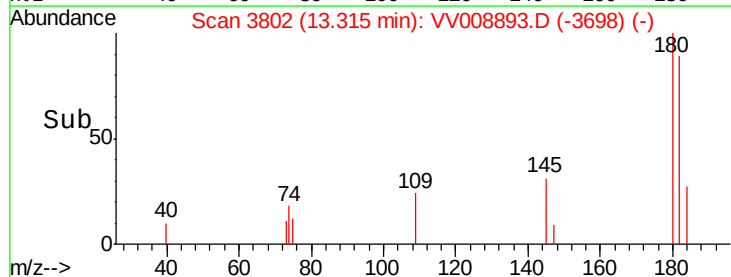
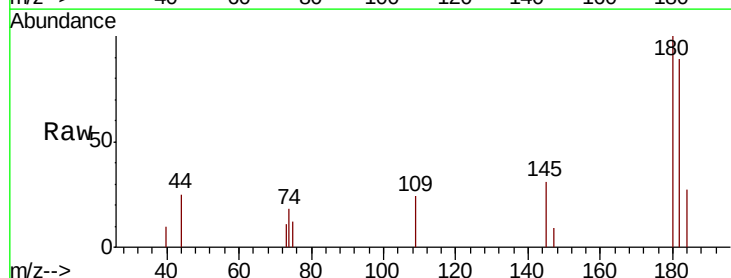
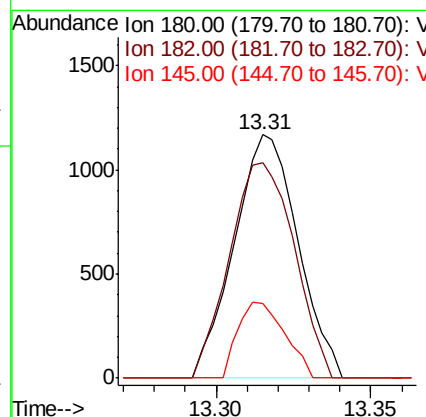
Manual Integrations
 APPROVED

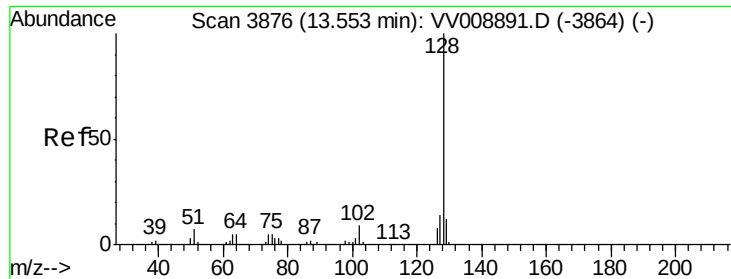
sam
 12/12/2018 11:26:20 AM



#68
 1,2,4-trichlorobenzene
 Concen: 0.729 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008893.D
 Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	89.8	77.4	116.0
145	22.9	25.6	38.4





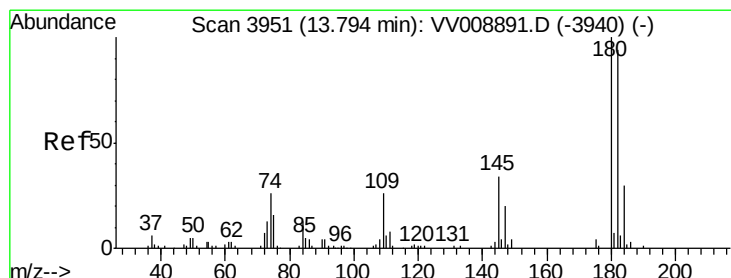
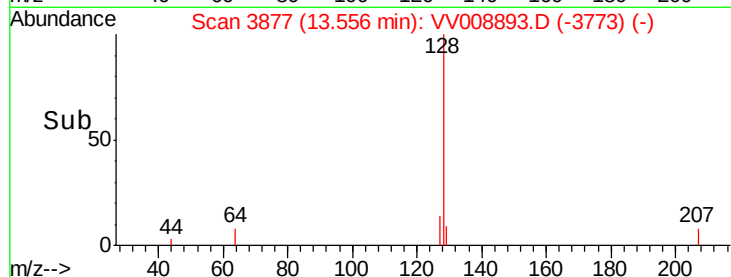
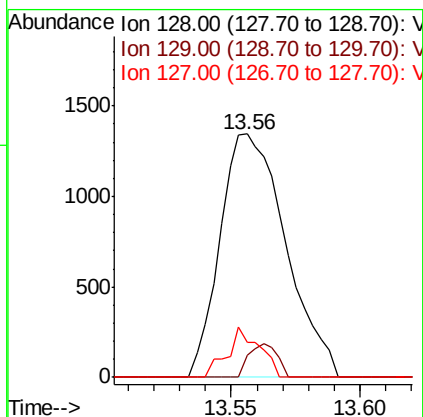
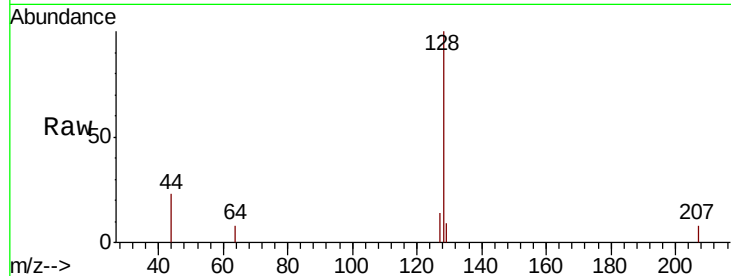
#69
Naphthalene
Concen: 0.604 ug/L
RT: 13.56 min Scan# 3877
Delta R.T. 0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
129	5.9	8.6	13.0#
127	8.4	10.0	15.0#

Manual Integrations
APPROVED

sam
12/12/2018 11:26:20 AM



#70
1,2,3-Trichlorobenzene
Concen: 0.635 ug/L
RT: 13.80 min Scan# 3952
Delta R.T. 0.00 min
Lab File: VV008893.D
Acq: 11 Dec 2018 12:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.1	114.1
145	31.3	26.7	40.1

