

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV010419\
 Data File : VV009157.D
 Acq On : 04 Jan 2019 12:10
 Operator : SY/MD
 Sample : VSTD05065
 Misc : 5.00 G/10ML/MSVOA V/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

Manual Integrations
 APPROVED

MMDadoda
 1/7/2019 11:59:57 PM

Quant Time: Jan 05 04:38:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:20:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	195842	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	177375	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	94051	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	54300	40.55	ug/L	0.00
7) Chloroethane-d5	1.58	69	55524	42.73	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	193423	43.20	ug/L	0.00
20) 2-Butanone-d5	3.95	46	88219m	94.99	ug/L	-0.01
24) Chloroform-d	4.40	84	179932	43.63	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	100641	45.62	ug/L	0.00
29) Benzene-d6	5.10	84	347968	44.03	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	102053	45.04	ug/L	0.00
37) Toluene-d8	7.36	98	329172	44.16	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	49714	46.24	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	53687	100.39	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	117316	47.11	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	128240	40.34	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	141168	44.843	ug/L 98
3) Chloromethane	1.25	50	93681	43.938	ug/L 98
5) Vinyl chloride	1.32	62	104877	45.939	ug/L 99
6) Bromomethane	1.54	94	71310	44.344	ug/L 98
8) Chloroethane	1.60	64	64821	46.073	ug/L 97
9) Trichlorofluoromethane	1.77	101	202477	48.376	ug/L 99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	134503	48.253	ug/L 99
12) 1,1-Dichloroethene	2.14	96	115332	47.709	ug/L 96
13) Acetone	2.21	43	116007	86.859	ug/L 97
14) Carbon disulfide	2.32	76	326987	47.337	ug/L 99
15) Methyl Acetate	2.47	43	81389	49.250	ug/L 97
16) Methylene chloride	2.53	84	124243	42.464	ug/L 99
17) Methyl tert-butyl Ether	2.81	73	303456	51.249	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	122684	47.888	ug/L 95
19) 1,1-Dichloroethane	3.23	63	207411	48.753	ug/L 100
21) 2-Butanone	4.04	43	119803	97.536	ug/L # 88
22) cis-1,2-Dichloroethene	3.96	96	134677	49.175	ug/L 99
23) Bromochloromethane	4.30	128	65011	50.454	ug/L 99
25) Chloroform	4.43	83	222360	49.081	ug/L 98
27) 1,2-Dichloroethane	5.18	62	149387	49.090	ug/L 100
30) Cyclohexane	4.73	56	188756	48.003	ug/L 99
31) 1,1,1-Trichloroethane	4.66	97	212212	49.209	ug/L 100
32) Carbon tetrachloride	4.88	117	196362	49.747	ug/L 99
34) Benzene	5.15	78	469296	49.217	ug/L 100
35) Trichloroethene	5.96	95	133099	48.451	ug/L 99
36) Methylcyclohexane	6.18	83	224431	48.896	ug/L 98
40) 1,2-Dichloropropane	6.22	63	113733	49.486	ug/L 99
41) Bromodichloromethane	6.56	83	163330	51.847	ug/L 100
42) cis-1,3-Dichloropropene	7.07	75	191413	52.558	ug/L 97
43) 4-Methyl-2-pentanone	7.28	43	220539	100.670	ug/L 98

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Manual Integrations
 APPROVED

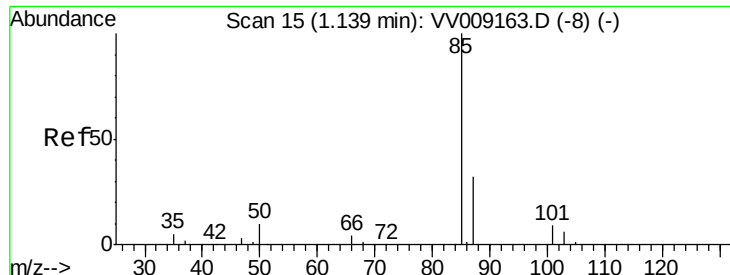
MMDadoda
 1/7/2019 11:59:57 PM

Quant Time: Jan 05 04:38:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:20:20 2019
 Response via : Initial Calibration

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

44) Toluene	7.43	91	510020	49.611	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	168376	52.806	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	104612	51.500	ug/L	98
47) Tetrachloroethene	8.02	164	114611	48.157	ug/L	98
49) 2-Hexanone	8.19	43	167189	103.698	ug/L	99
50) Dibromochloromethane	8.29	129	132386	53.050	ug/L	99
51) 1,2-Dibromoethane	8.40	107	108467	51.066	ug/L	96
52) Chlorobenzene	8.93	112	342433	48.546	ug/L	99
53) Ethylbenzene	9.06	91	579196	49.818	ug/L	99
54) m,p-Xylene	9.18	106	225108	49.696	ug/L	99
55) o-xylene	9.59	106	213086	50.876	ug/L	99
56) Styrene	9.60	104	363380	51.438	ug/L	100
57) Isopropylbenzene	9.98	105	585781	50.408	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	142906	52.508	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	112373	51.657	ug/L	98
62) Bromoform	9.78	173	87474	52.663	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	278305	46.964	ug/L	100
64) 1,4-Dichlorobenzene	11.32	146	282813	45.784	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	264480	46.853	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	30740	52.454	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	223238	46.710	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	189621	48.745	ug/L	99
69) Naphthalene	13.55	128	423606	53.462	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	175536	49.170	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 44.843 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tot Ion: 85 Resp: 141168

Ion Ratio Lower Upper

85 100

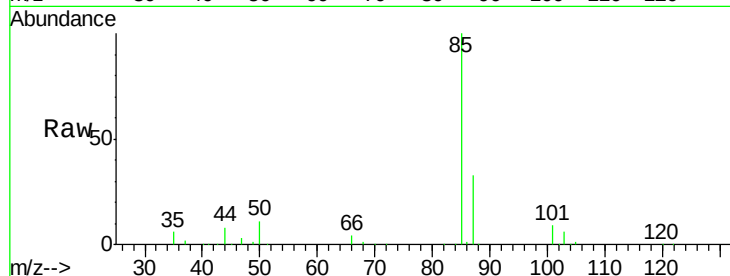
87 33.1 22.5 41.7

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Abundance Ion 85.00 (84.70 to 85.70): VV009163.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009163.D (-8) (-)

1.14

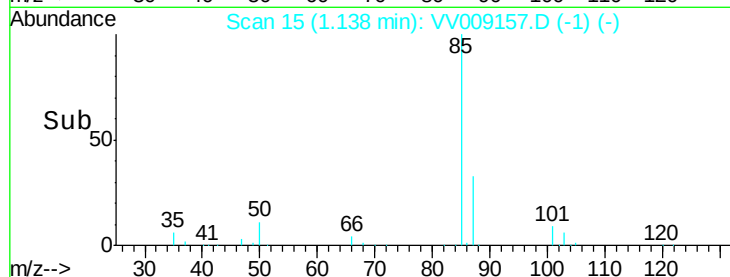
150000

100000

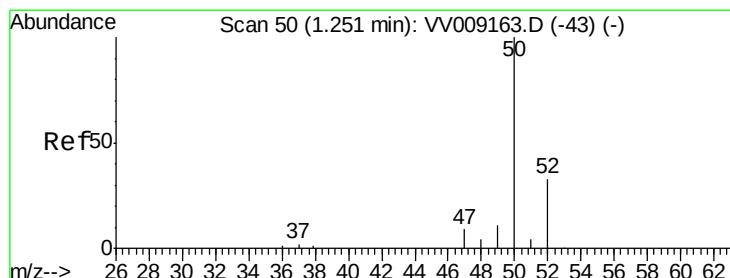
50000

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Time-->



Time-->



#3

Chloromethane

Concen: 43.938 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009157.D

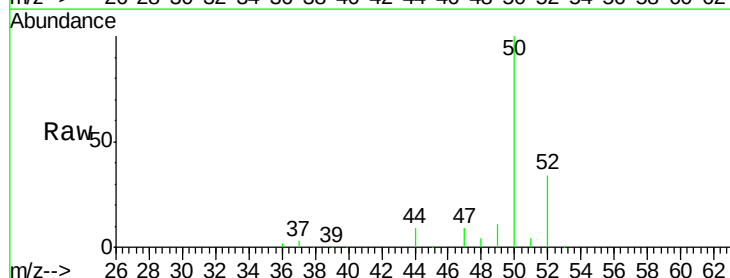
Acq: 04 Jan 2019 12:10

Tgt Ion: 50 Resp: 93681

Ion Ratio Lower Upper

50 100

52 34.0 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV009163.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009163.D (-43) (-)

1.25

80000

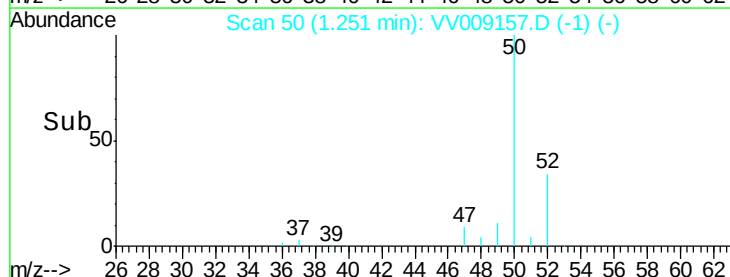
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40000

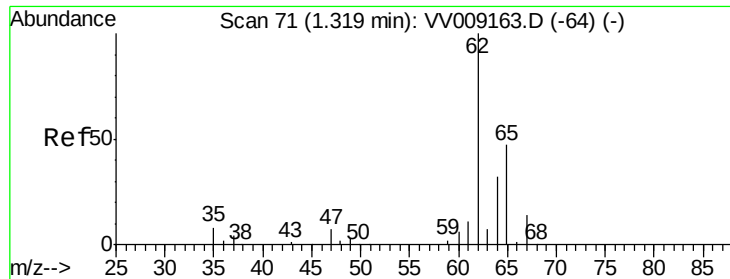
20000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 45.939 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tot Ion: 62 Resp: 104877

Ion Ratio Lower Upper

62 100

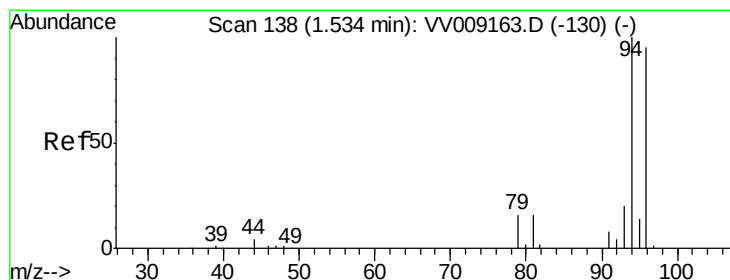
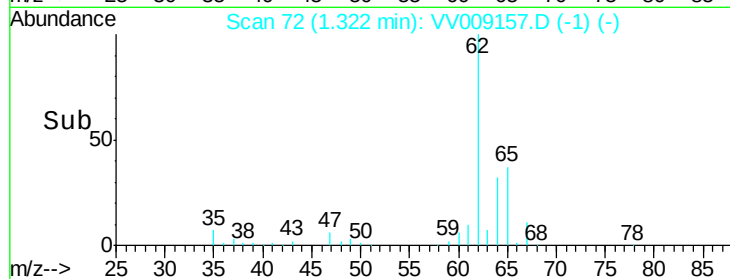
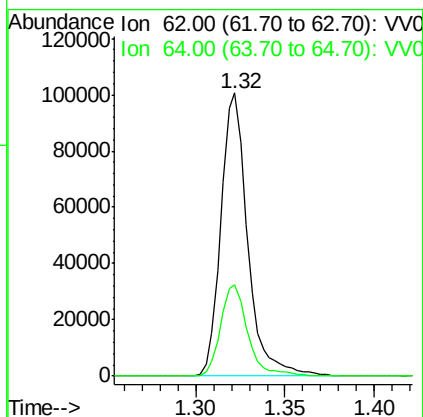
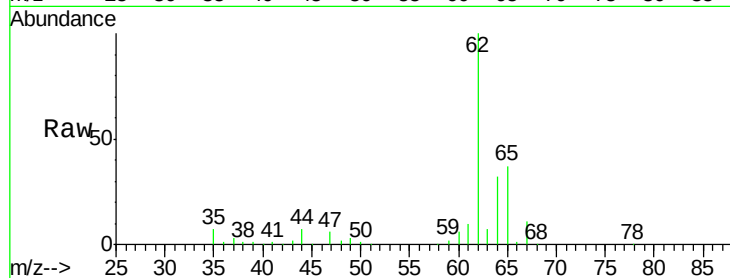
64 32.4 23.0 42.6

Manual Integrations

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#6

Bromomethane

Concen: 44.344 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV009157.D

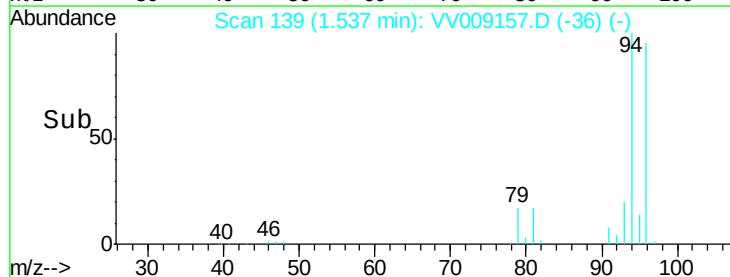
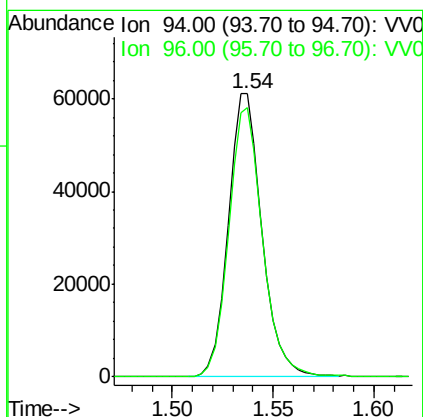
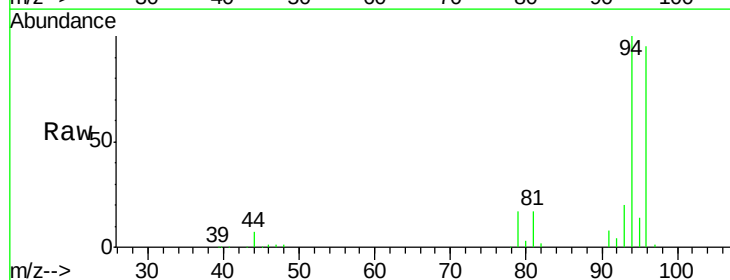
Acq: 04 Jan 2019 12:10

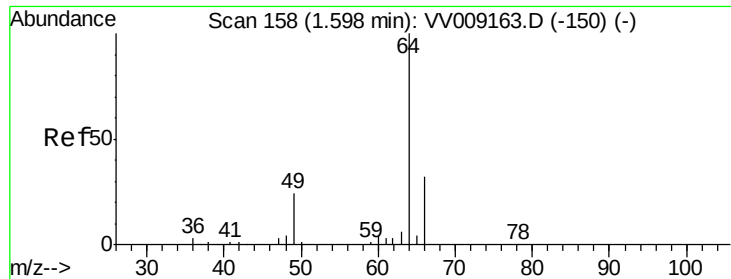
Tgt Ion: 94 Resp: 71310

Ion Ratio Lower Upper

94 100

96 95.9 9.7 185.1





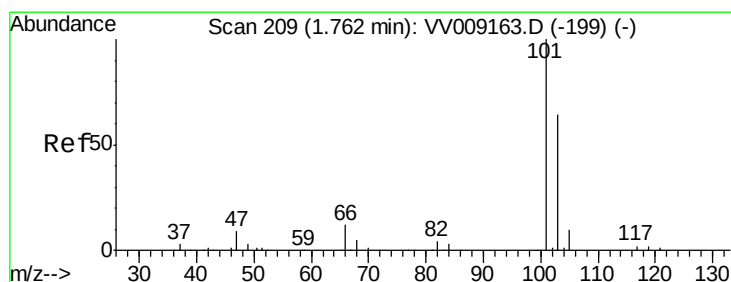
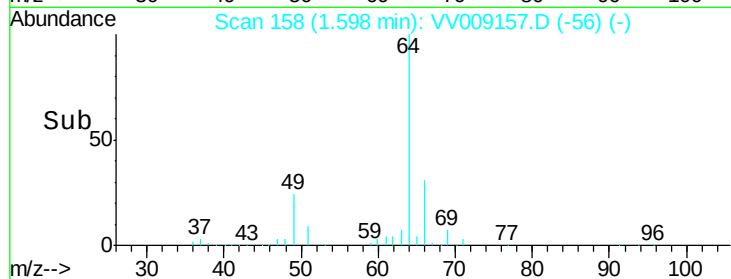
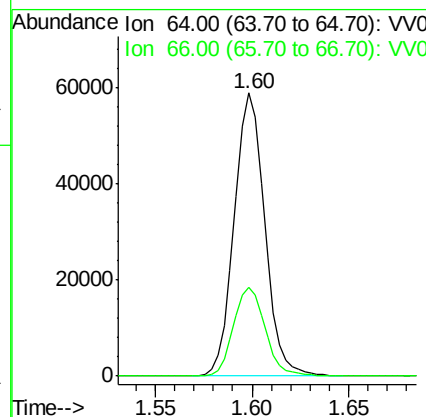
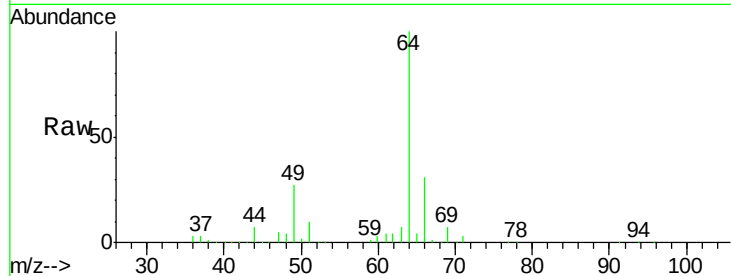
#8
 Chloroethane
 Concen: 46.073 ug/L
 RT: 1.60 min Scan# 158
 Delta R.T. -0.00 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

Tot Ion: 64 Resp: 64821
 Ion Ratio Lower Upper
 64 100
 66 31.5 23.2 43.0

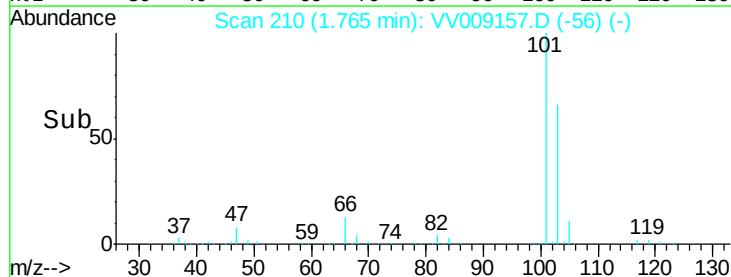
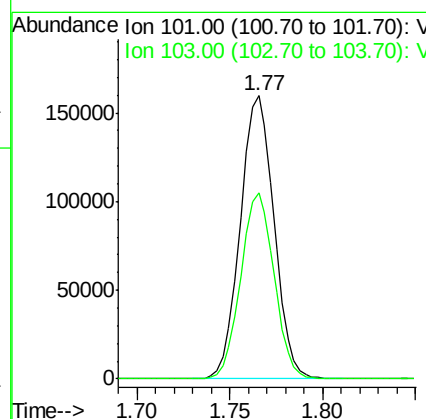
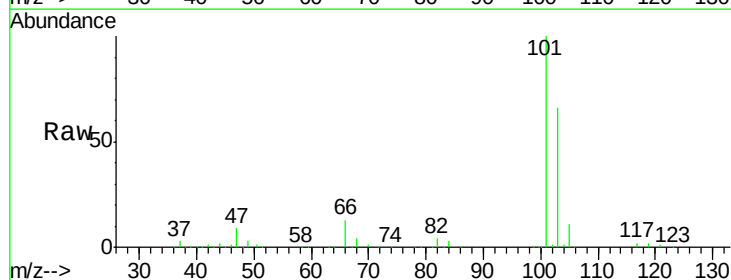
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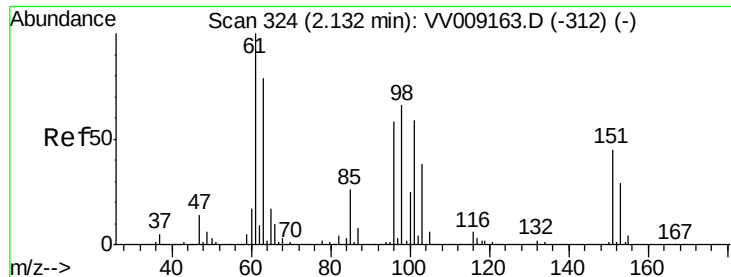
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 1/7/2019 11:59:57 PM



#9
 Trichlorofluoromethane
 Concen: 48.376 ug/L
 RT: 1.77 min Scan# 210
 Delta R.T. -0.00 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Tgt Ion: 101 Resp: 202477
 Ion Ratio Lower Upper
 101 100
 103 64.8 46.0 85.4





#11

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

Concen: 48.253 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

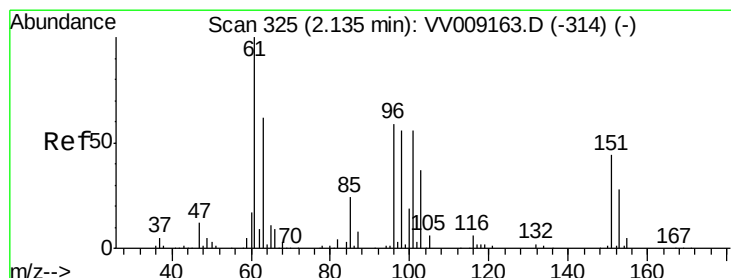
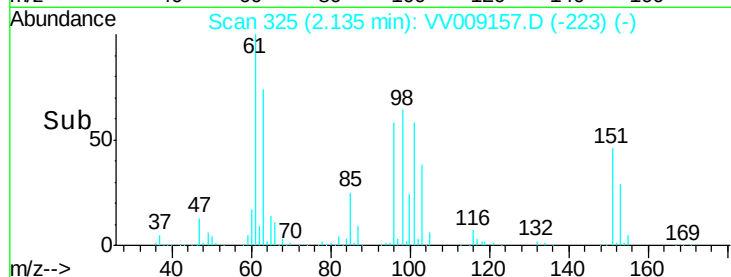
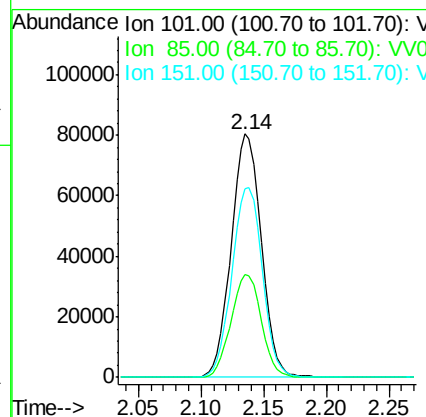
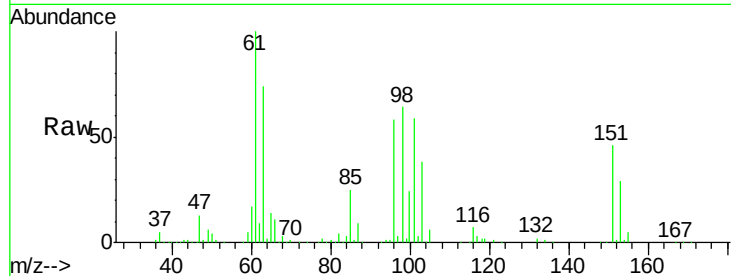
ClientSampled :

VSTD05065

Tot Ion:	101	Resp:	134503
Ion Ratio	Lower	Upper	
101	100		
85	42.1	34.6	52.0
151	78.7	62.6	94.0

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 47.709 ug/L

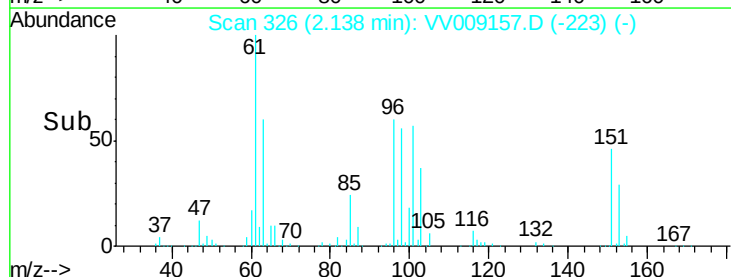
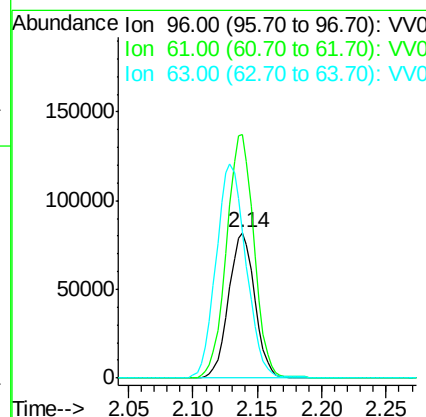
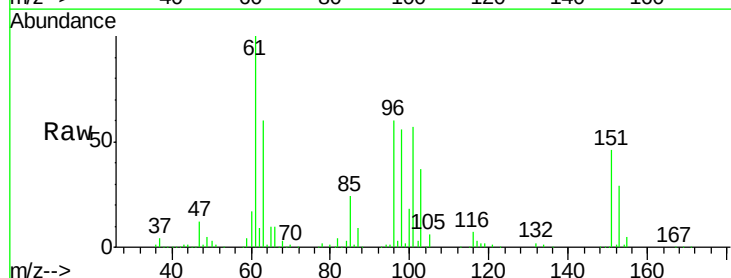
RT: 2.14 min Scan# 326

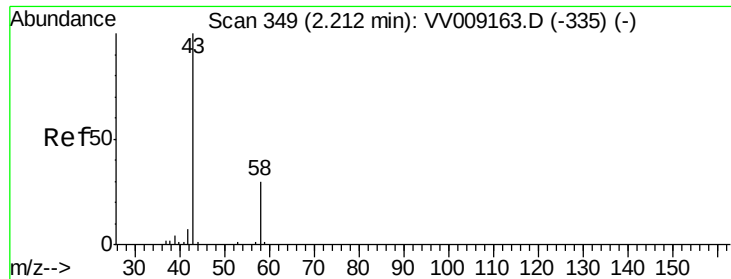
Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Tgt Ion:	96	Resp:	115332
Ion Ratio	Lower	Upper	
96	100		
61	167.2	117.0	217.4
63	100.4	78.2	145.2





#13

Acetone

Concen: 86.859 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.01 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

ClientSampled :

VSTD05065

Tot Ion: 43 Resp: 116007

Ion Ratio Lower Upper

43 100

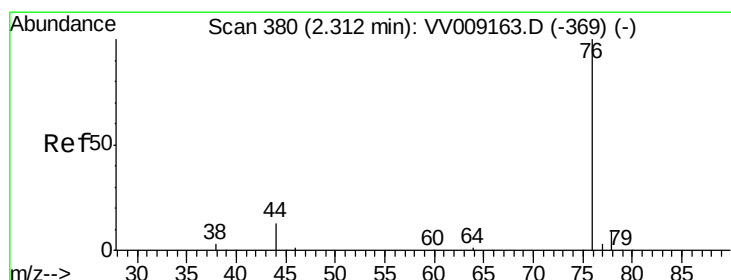
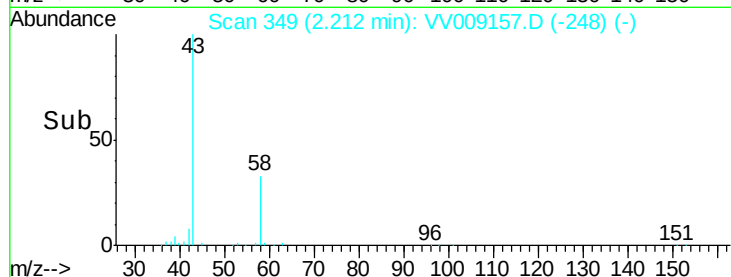
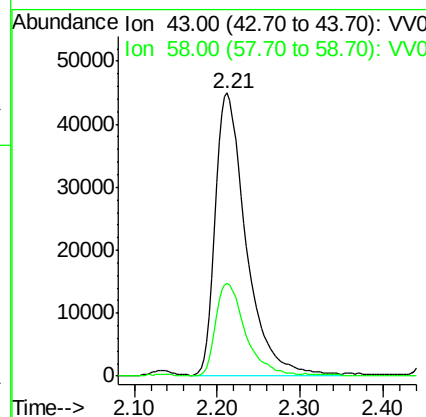
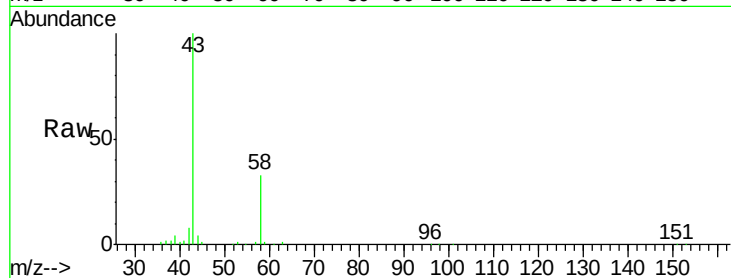
58 31.8 0.0 67.0

Manual Integrations

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#14

Carbon disulfide

Concen: 47.337 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009157.D

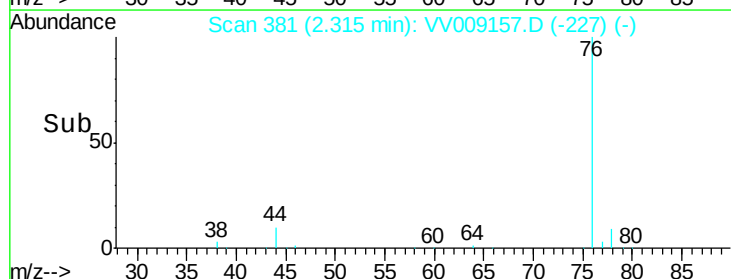
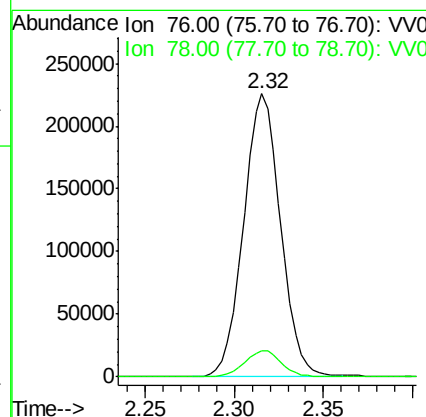
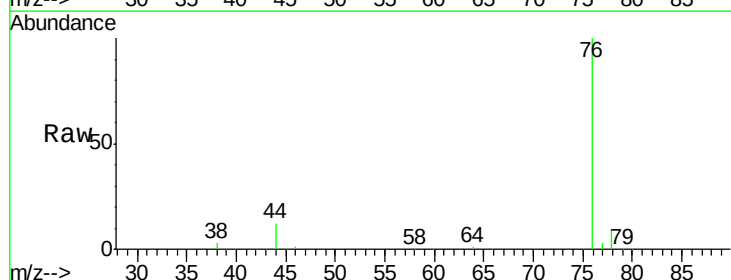
Acq: 04 Jan 2019 12:10

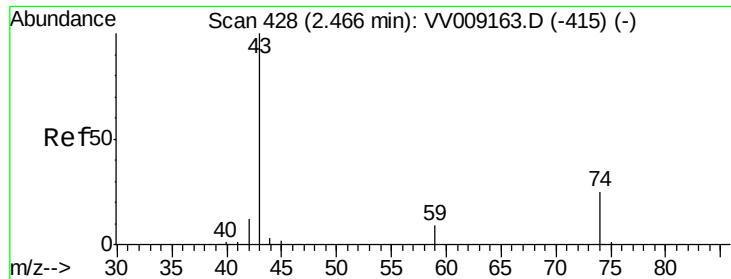
Tgt Ion: 76 Resp: 326987

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9





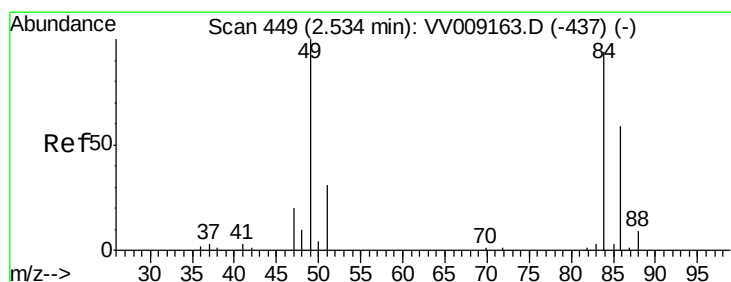
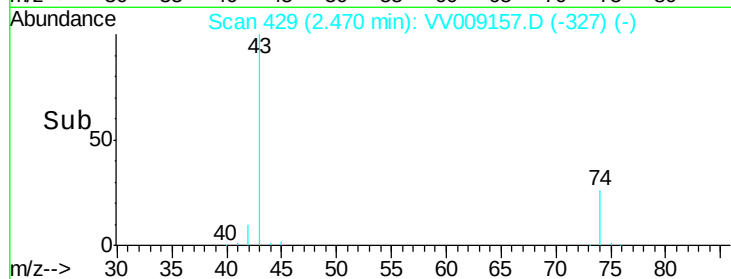
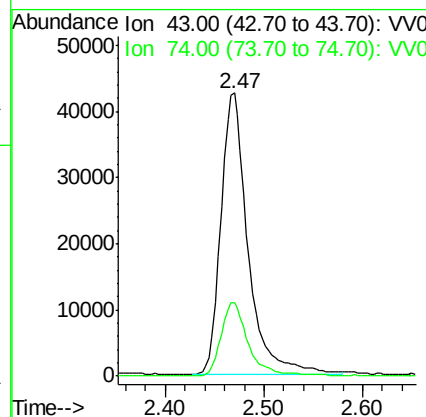
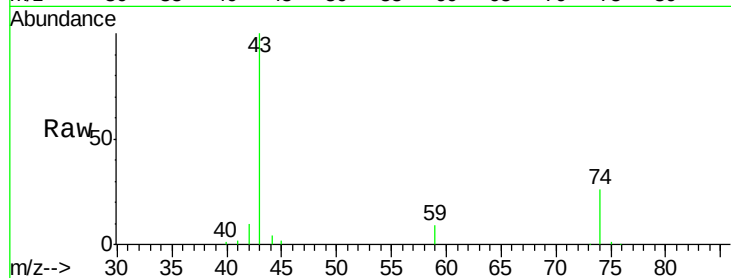
#15
Methvl Acetate
Concen: 49.250 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Tot Ion: 43 Resp: 81389
Ion Ratio Lower Upper
43 100
74 25.9 19.4 29.0

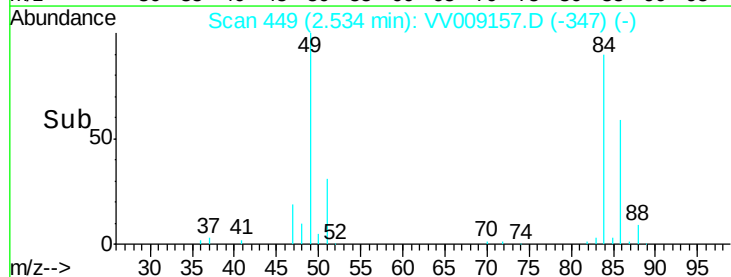
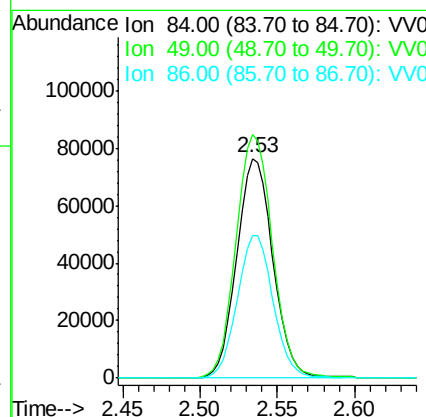
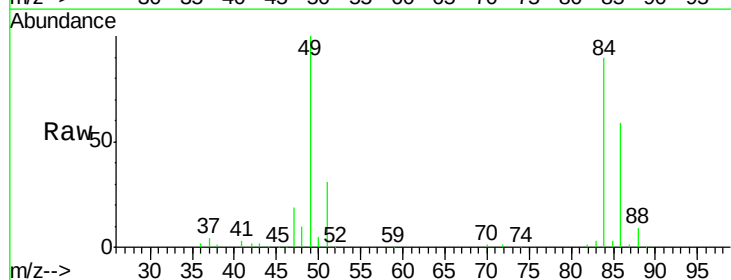
Manual Integrations
APPROVED

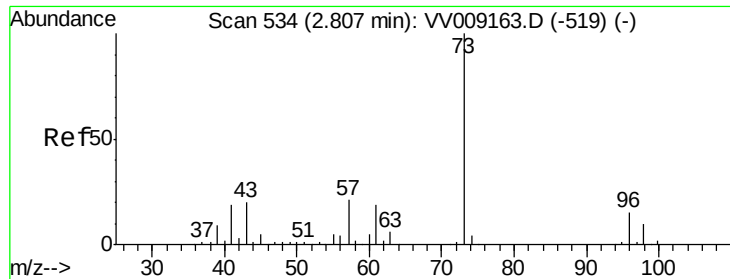
MMDadoda
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#16
Methylene chloride
Concen: 42.464 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Tgt Ion: 84 Resp: 124243
Ion Ratio Lower Upper
84 100
49 110.9 77.6 144.2
86 65.0 47.4 88.0





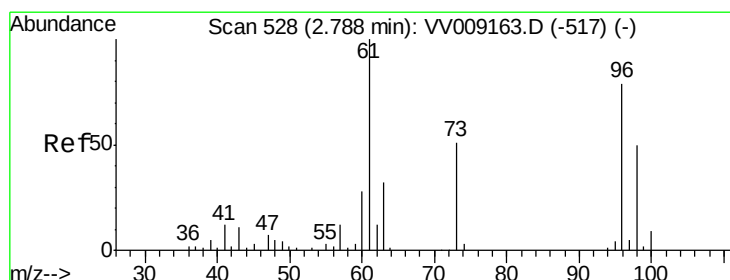
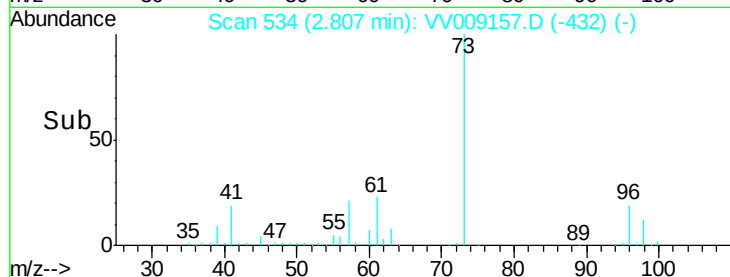
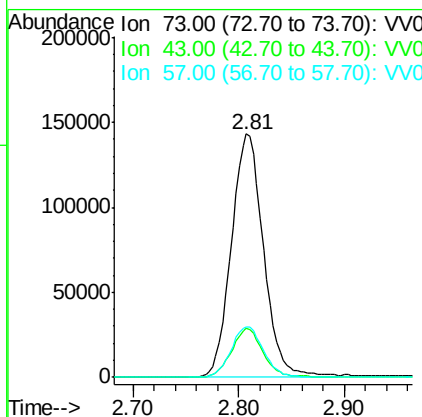
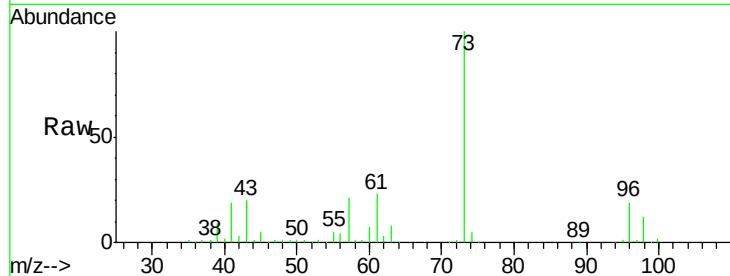
#17
Methyl tert-butyl Ether
Concen: 51.249 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Tot Ion:	73	Resp:	303456
Ion	Ratio	Lower	Upper
73	100		
43	19.3	15.4	23.2
57	21.1	16.2	24.2

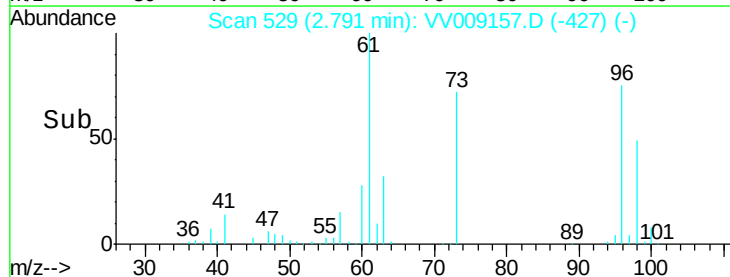
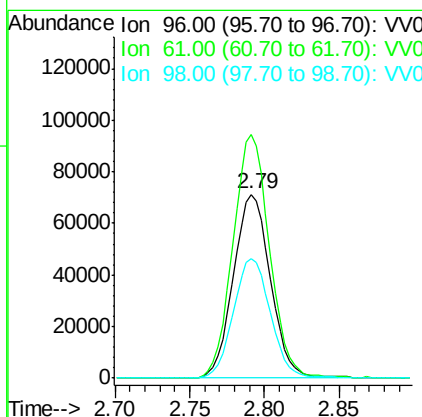
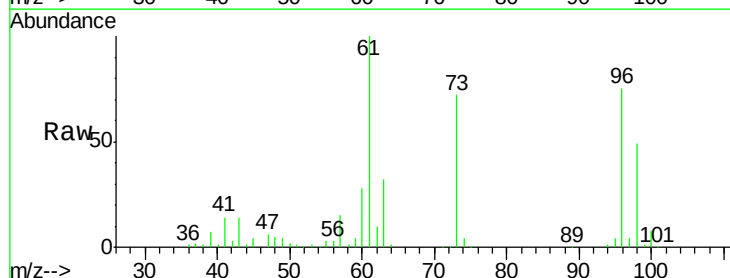
Manual Integrations
APPROVED

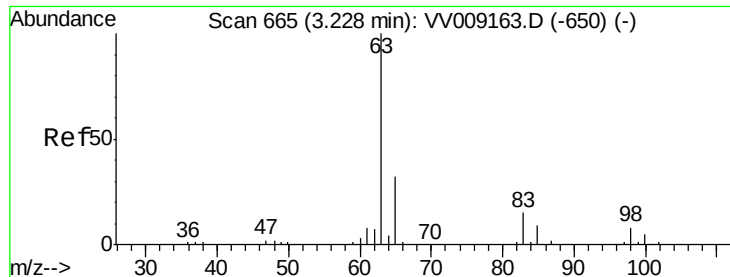
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#18
trans-1,2-Dichloroethene
Concen: 47.888 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Tgt Ion:	96	Resp:	122684
Ion	Ratio	Lower	Upper
96	100		
61	132.6	88.8	164.8
98	65.4	43.5	80.9





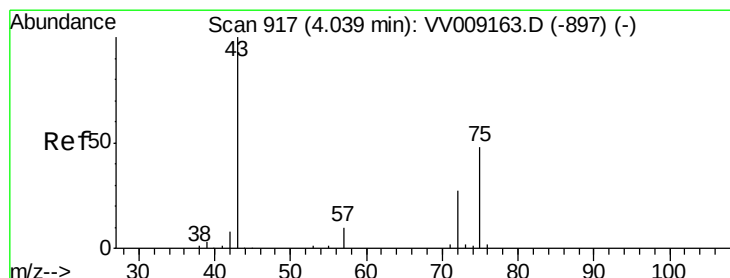
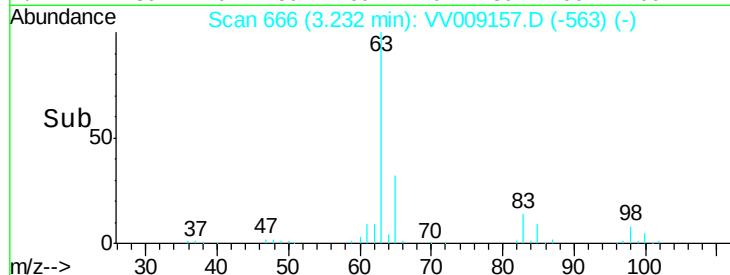
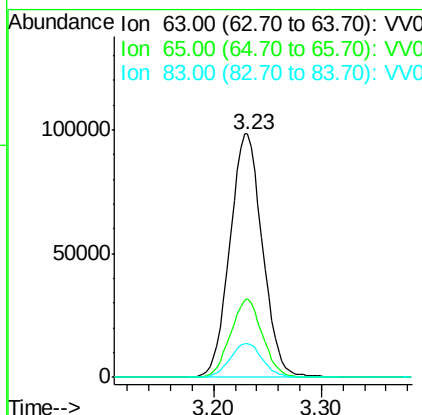
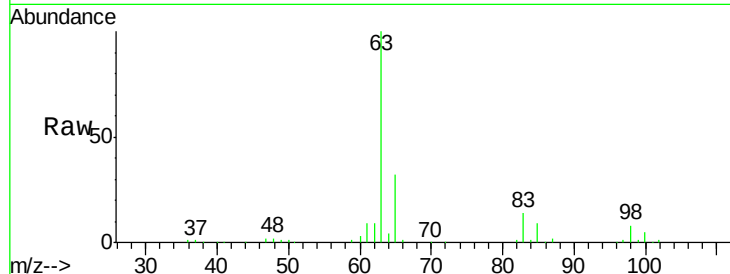
#19
 1,1-Dichloroethane
 Concen: 48.753 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.2	22.6	42.0
83	13.9	9.9	18.3

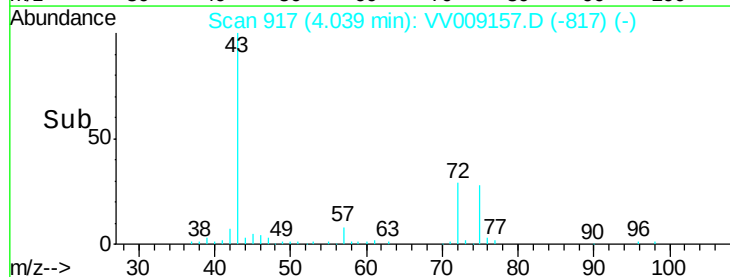
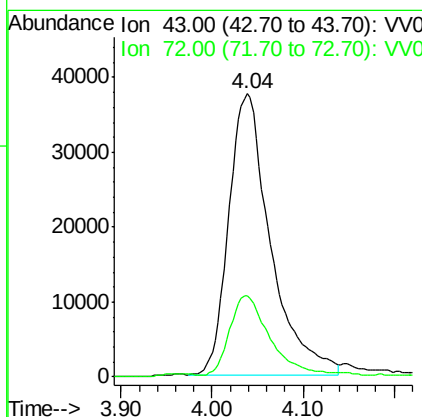
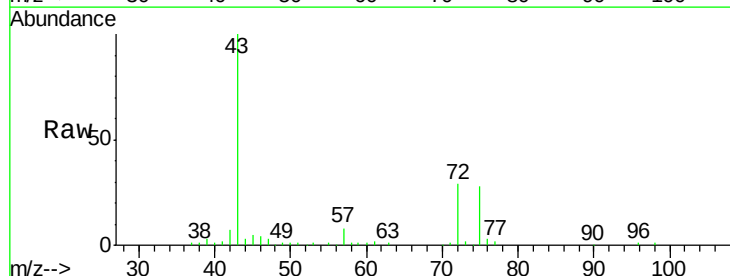
Manual Integrations
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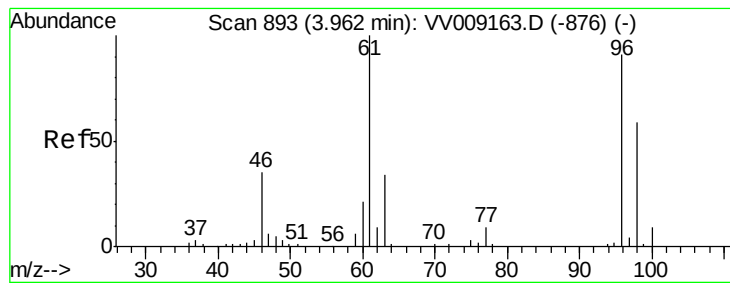
MMDadoda
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#21
 2-Butanone
 Concen: 97.536 ug/L
 RT: 4.04 min Scan# 917
 Delta R.T. -0.01 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.3	0.1	0.1#





#22

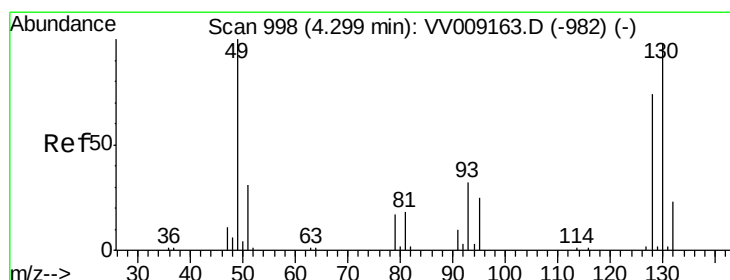
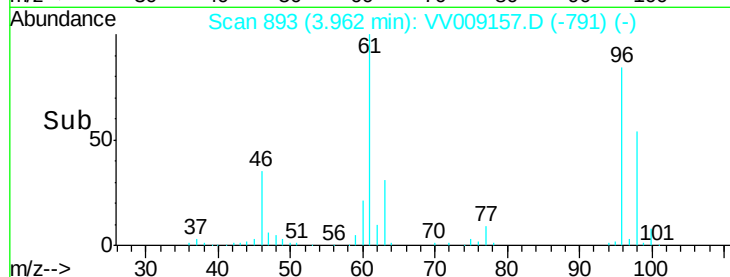
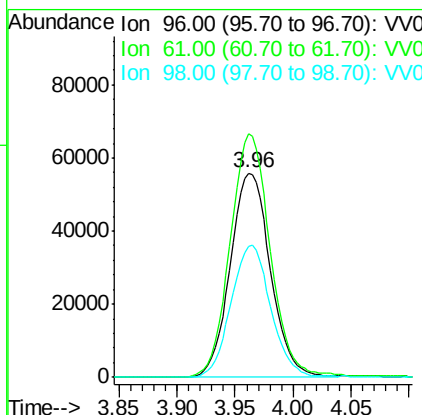
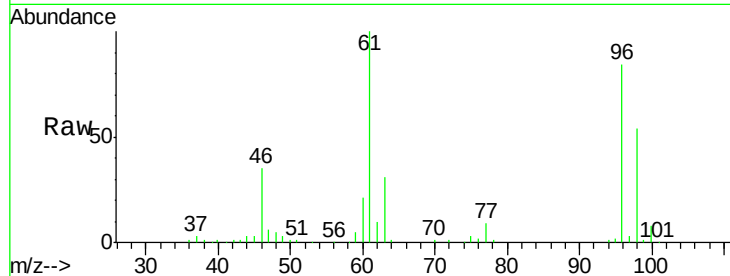
cis-1,2-Dichloroethene
Concen: 49.175 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Tot Ion	Ratio	Lower	Upper
96	100		
61	119.3	83.2	154.6
98	64.2	45.8	85.2

Manual Integrations
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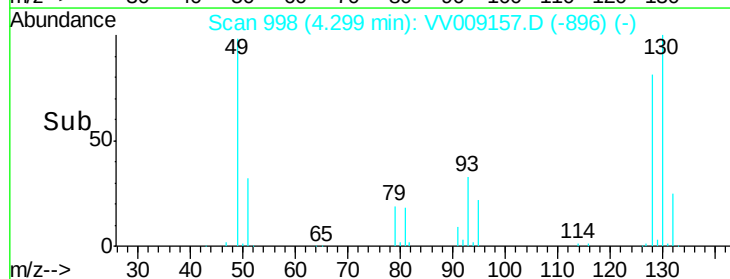
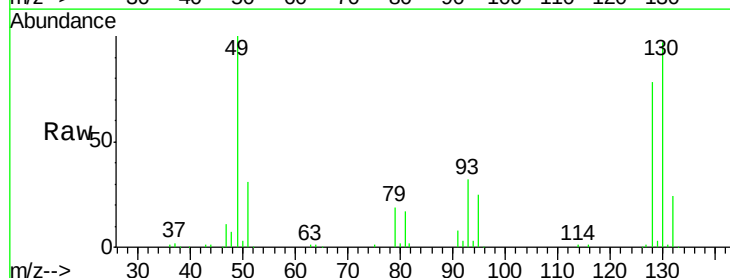
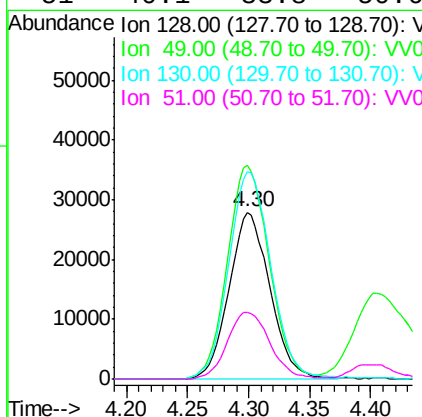
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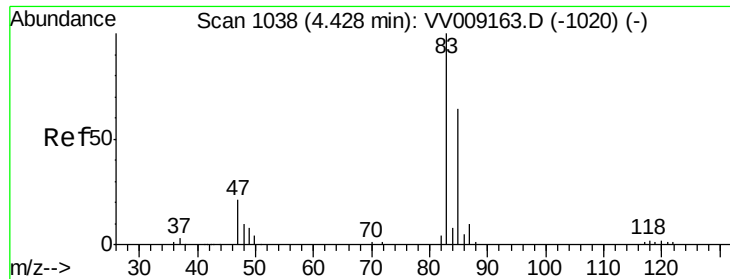


#23

Bromochloromethane
Concen: 50.454 ug/L
RT: 4.30 min Scan# 998
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Tgt Ion	Ratio	Lower	Upper
128	100		
49	127.9	89.9	167.0
130	124.1	87.8	163.2
51	40.1	33.8	50.6





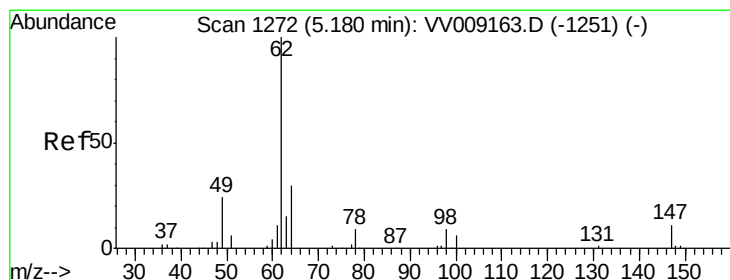
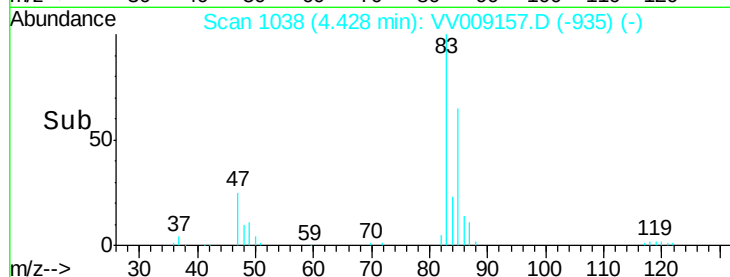
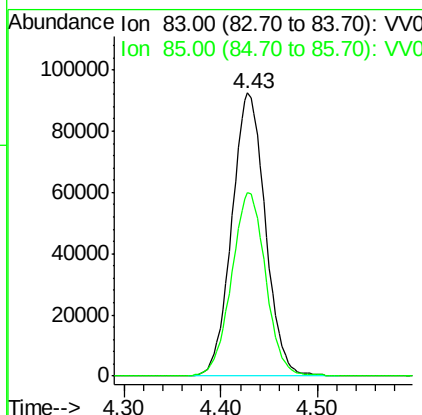
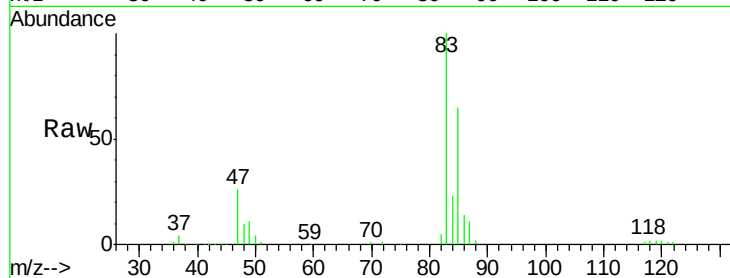
#25
Chloroform
Concen: 49.081 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Tot Ion	83	Resp	222360
Ion Ratio	100	Lower	Upper
83	100		
85	65.9	45.3	84.1

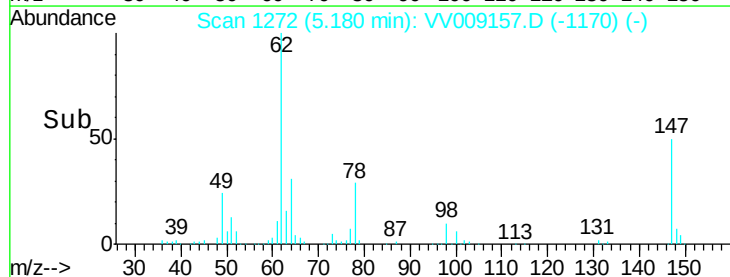
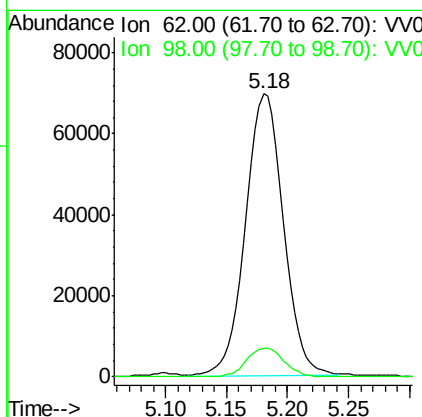
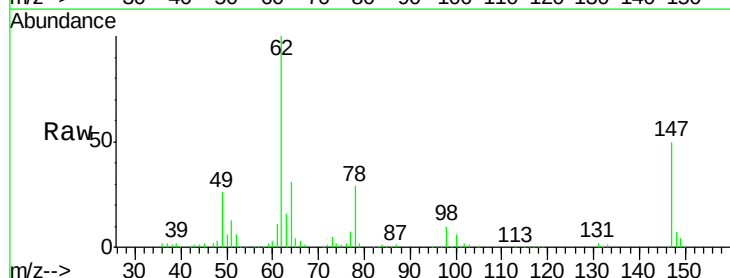
Manual Integrations
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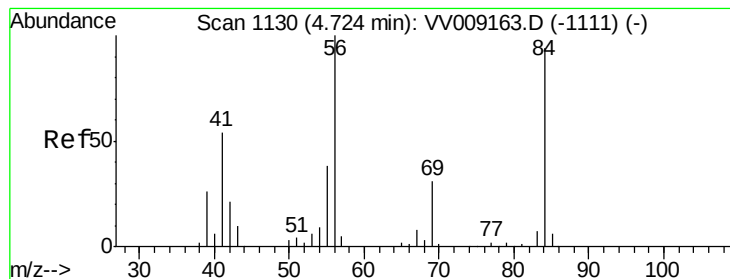
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#27
1,2-Dichloroethane
Concen: 49.090 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Tgt Ion	62	Resp	149387
Ion Ratio	100	Lower	Upper
62	100		
98	10.0	8.1	12.1





#30

Cyclohexane

Concen: 48.003 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

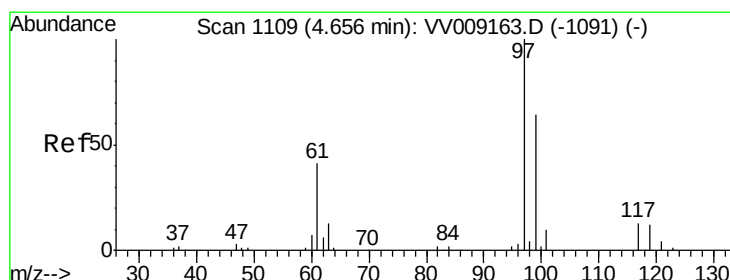
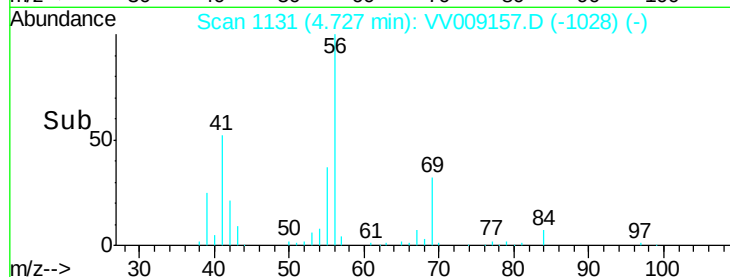
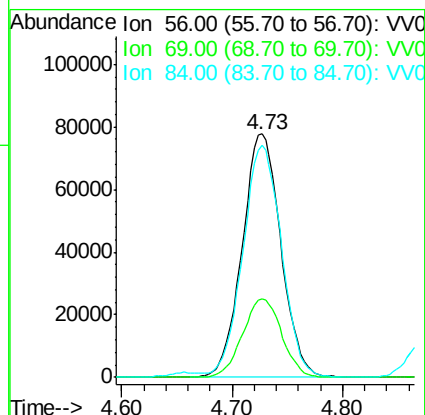
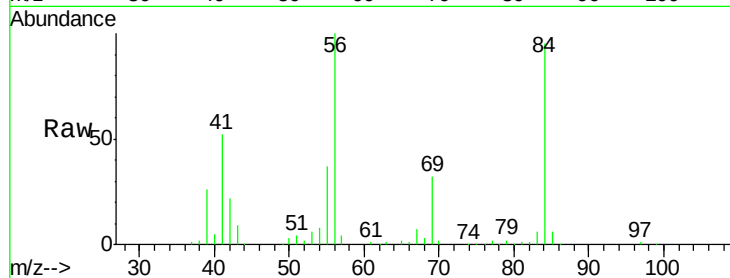
ClientSampleId :

VSTD05065

Tot Ion:	56	Resp:	188756
Ion Ratio	Lower	Upper	
56	100		
69	32.5	26.0	39.0
84	95.0	77.0	115.4

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#31

1,1,1-Trichloroethane

Concen: 49.209 ug/L

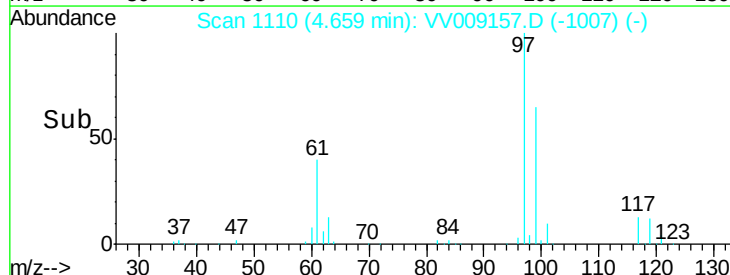
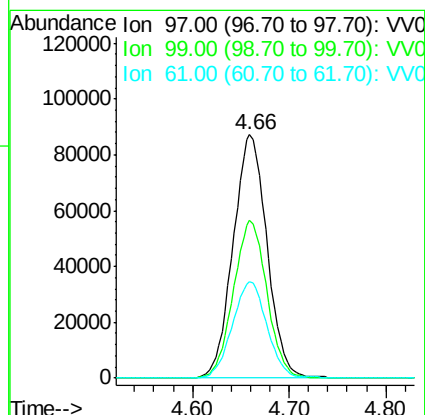
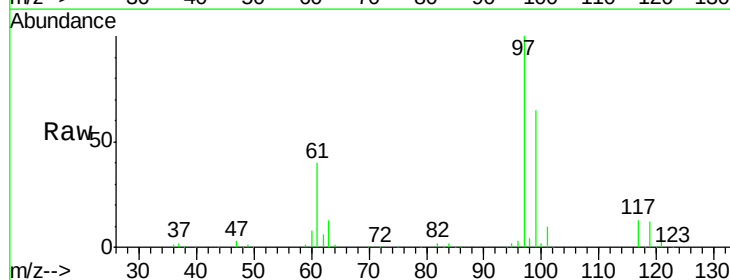
RT: 4.66 min Scan# 1110

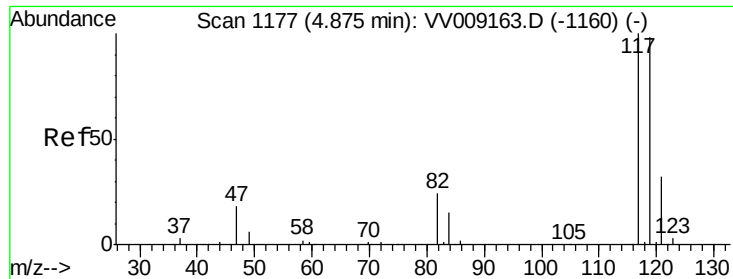
Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Tgt Ion:	97	Resp:	212212
Ion Ratio	Lower	Upper	
97	100		
99	63.9	51.2	76.8
61	40.4	31.8	47.6





#32

Carbon tetrachloride

Concen: 49.747 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tot Ion:117 Resp: 196362

Ion Ratio Lower Upper

117 100

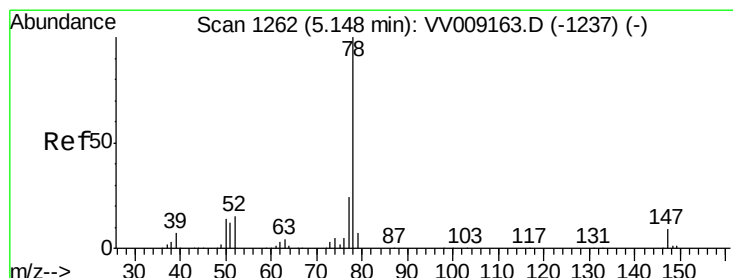
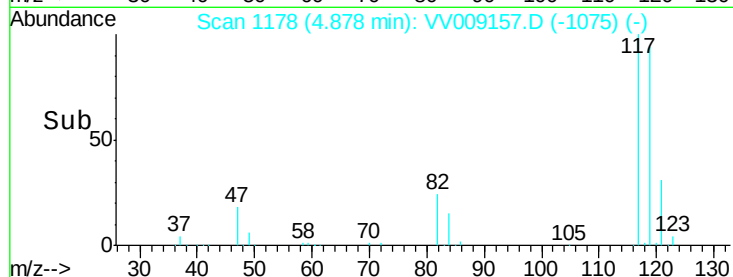
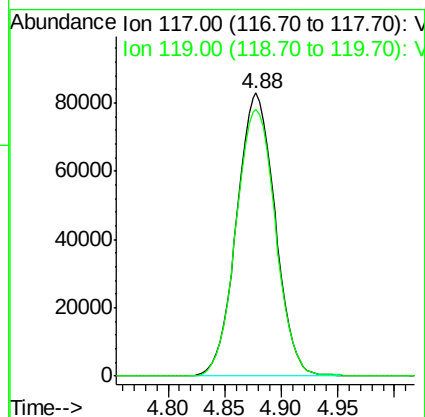
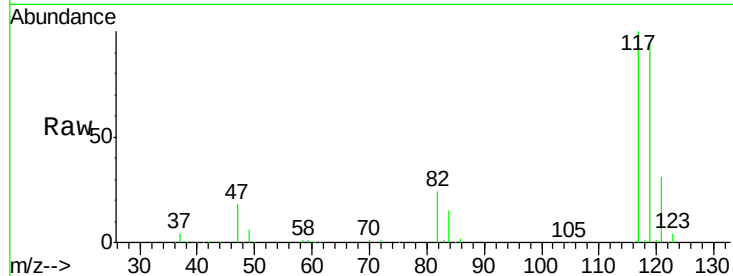
119 96.6 76.6 115.0

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#34

Benzene

Concen: 49.217 ug/L

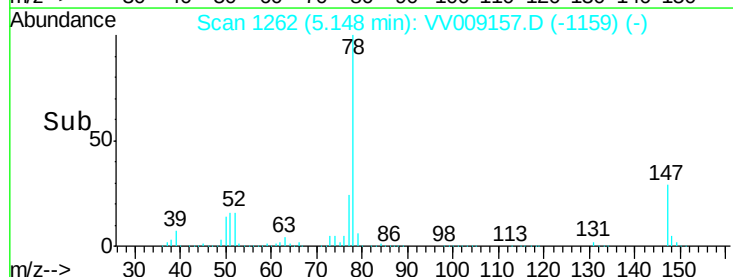
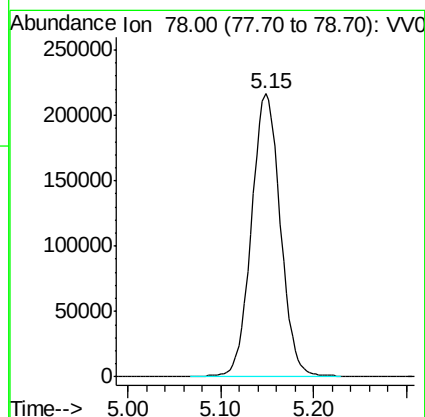
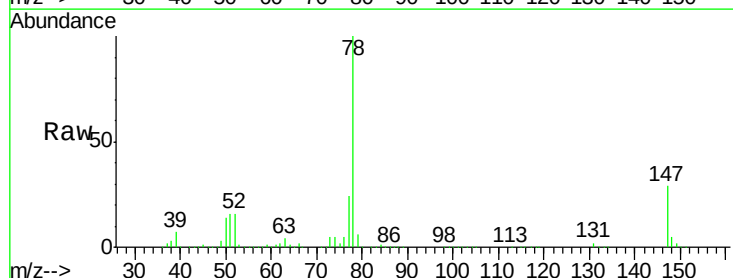
RT: 5.15 min Scan# 1262

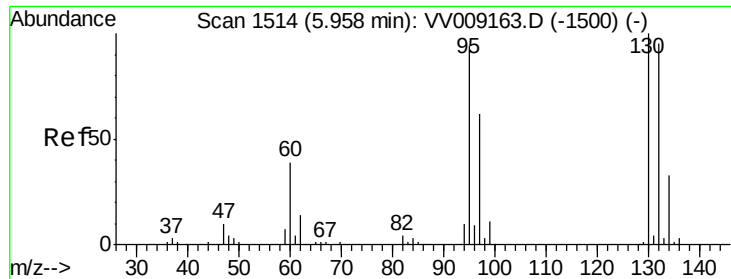
Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Tgt Ion: 78 Resp: 469296





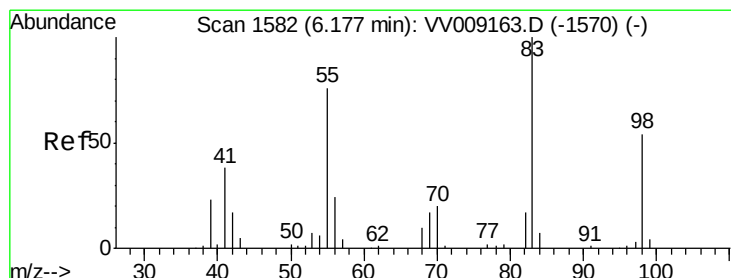
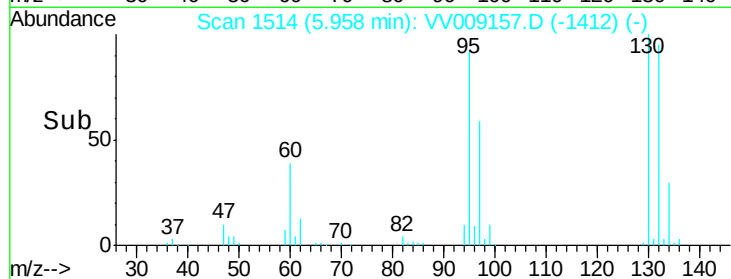
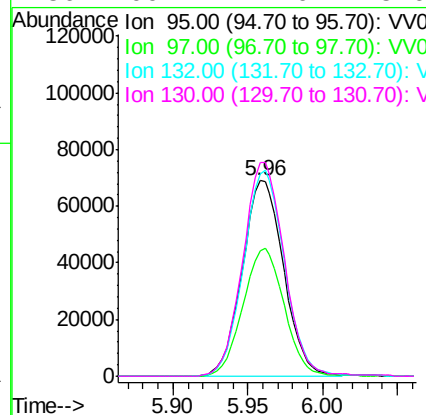
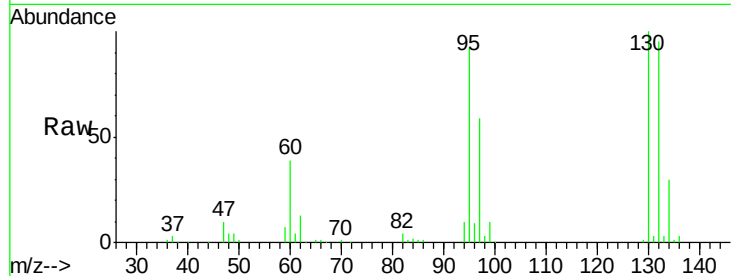
#35
 Trichloroethene
 Concen: 48.451 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

Tot Ion	Ratio	Resp	Lower	Upper
95	100			
97	65.1	46.2	85.8	
132	104.4	73.9	137.3	
130	109.1	77.0	143.0	

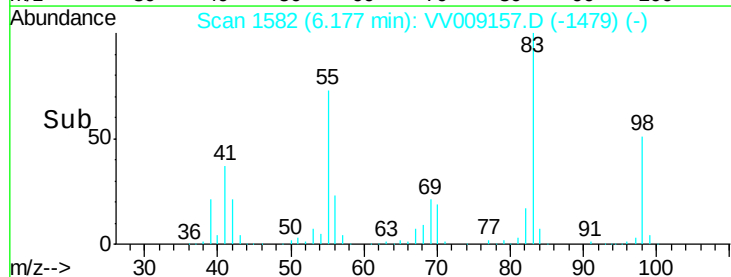
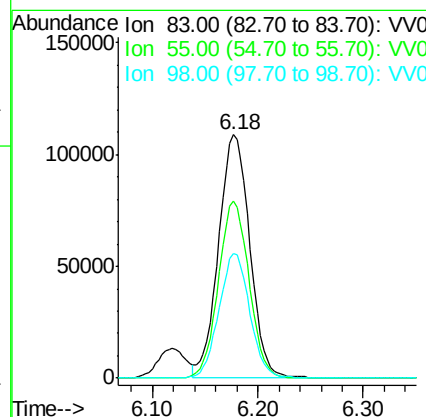
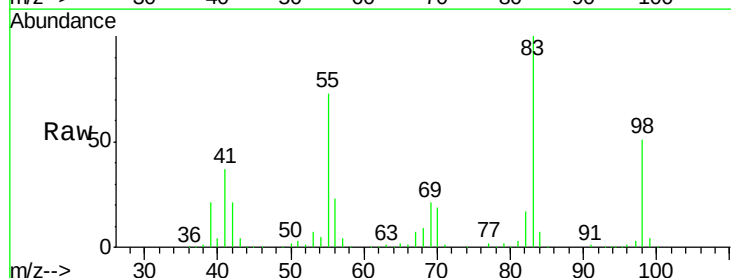
Manual Integrations
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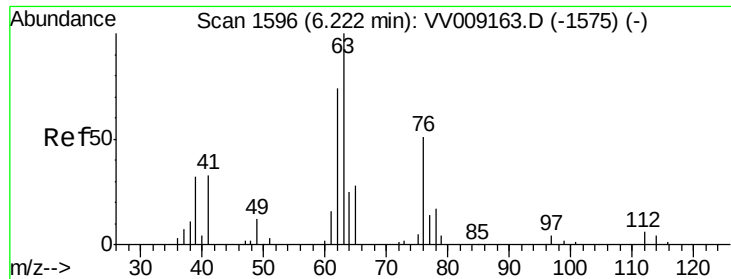
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#36
 Methylcyclohexane
 Concen: 48.896 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
55	71.1	58.5	87.7	
98	50.1	41.4	62.0	





#40

1,2-Dichloropropane

Concen: 49.486 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tot Ion: 63 Resp: 113733

Ion Ratio Lower Upper

63 100

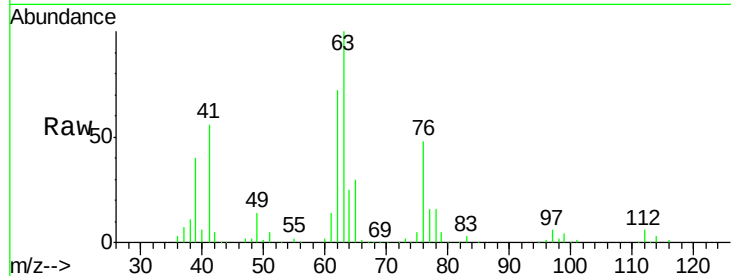
112 5.3 3.9 5.9

Manual Integrations

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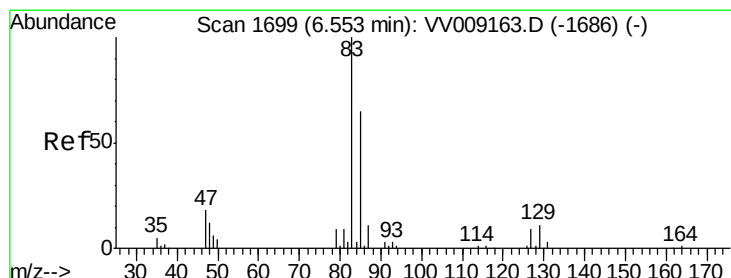
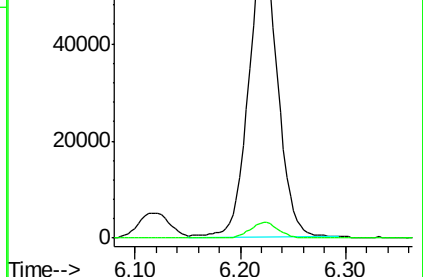
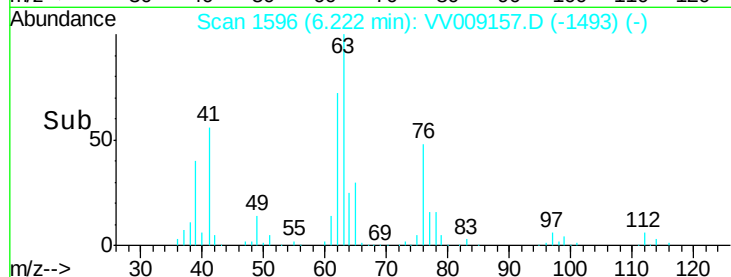


Abundance Ion 63.00 (62.70 to 63.70): VV009163.D (-1575) (-)

Ion 112.00 (111.70 to 112.70): VV009163.D (-1575) (-)

6.22

6.10 6.20 6.30



#41

Bromodichloromethane

Concen: 51.847 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

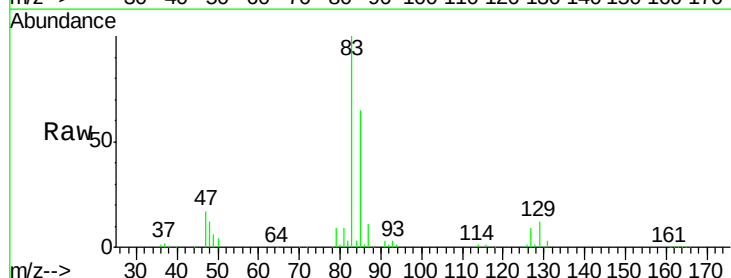
Tgt Ion: 83 Resp: 163330

Ion Ratio Lower Upper

83 100

85 65.0 45.3 84.1

127 9.3 7.8 11.6



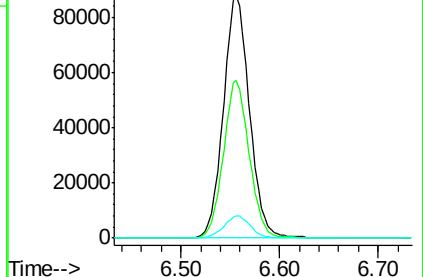
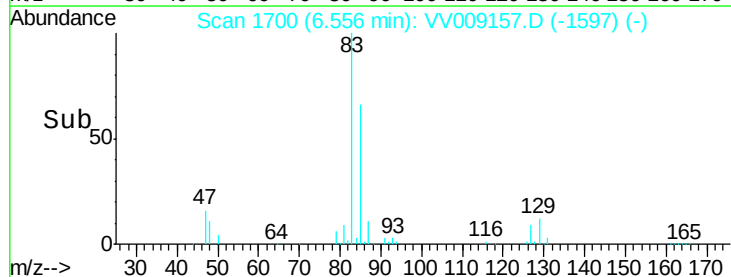
Abundance Ion 83.00 (82.70 to 83.70): VV009163.D (-1686) (-)

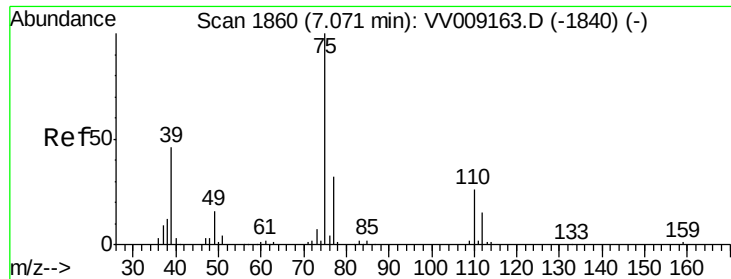
Ion 85.00 (84.70 to 85.70): VV009163.D (-1686) (-)

Ion 127.00 (126.70 to 127.70): VV009163.D (-1686) (-)

6.56

6.50 6.60 6.70





#42

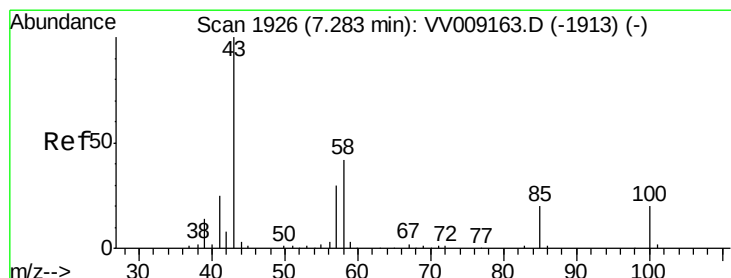
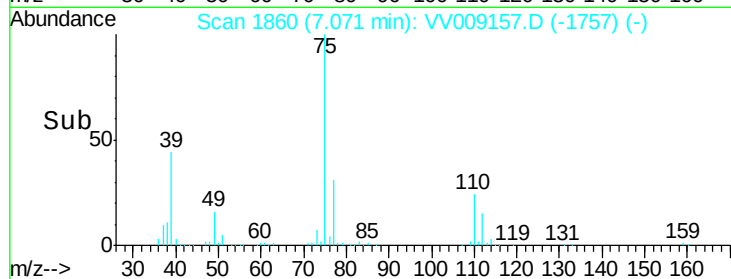
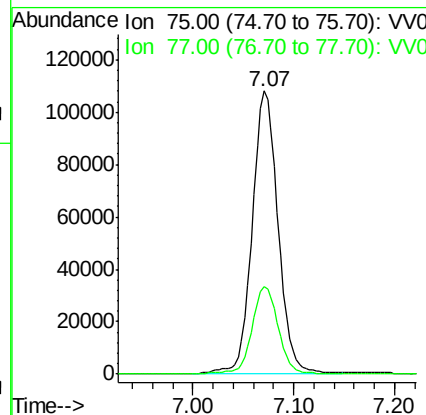
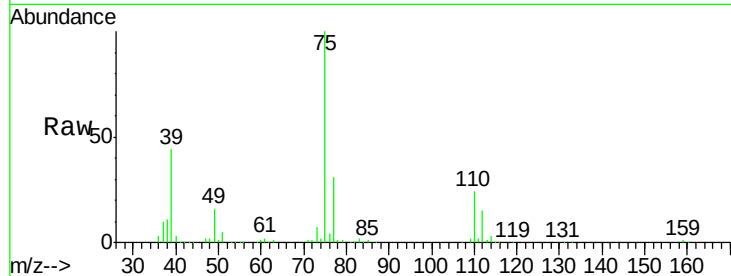
cis-1,3-Dichloropropene
Concen: 52.558 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Instrument :
MSVOA_V
ClientSampled :
VSTD05065

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.8	22.8	42.4

Manual Integrations
APPROVED

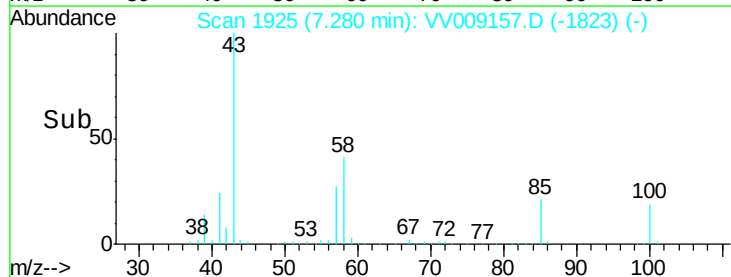
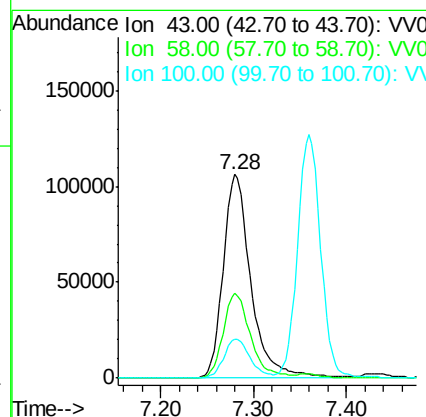
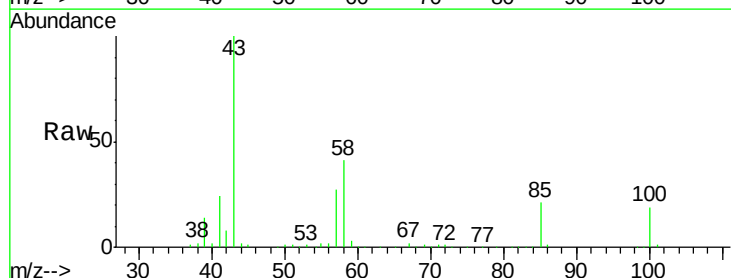
MMDadoda
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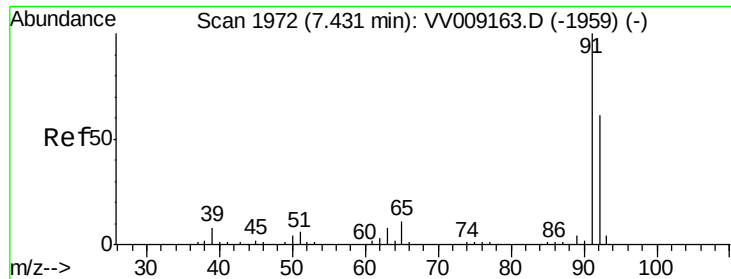


#43

4-Methyl-2-pentanone
Concen: 100.670 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.7	33.4	50.2
100	18.3	15.2	22.8





#44

Toluene

Concen: 49.611 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tot Ion: 91 Resp: 510020

Ion Ratio Lower Upper

91 100

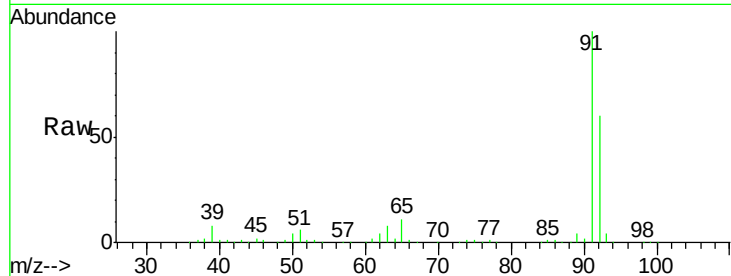
92 59.8 41.7 77.5

Manual Integrations

APPROVED

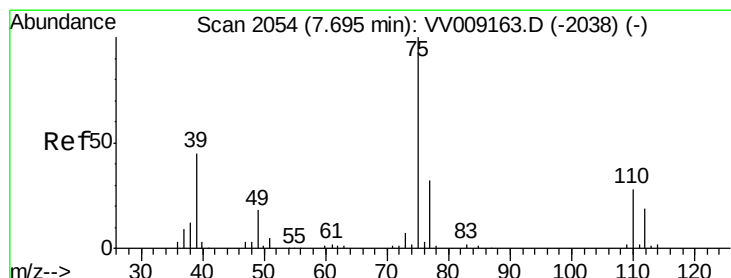
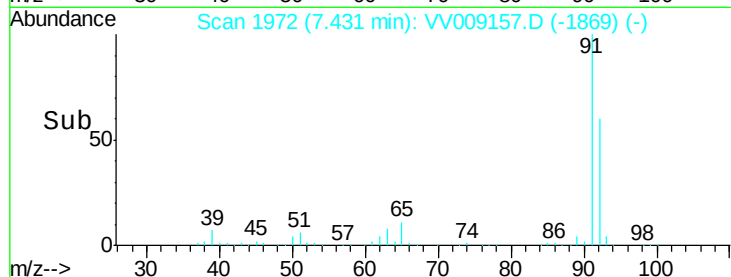
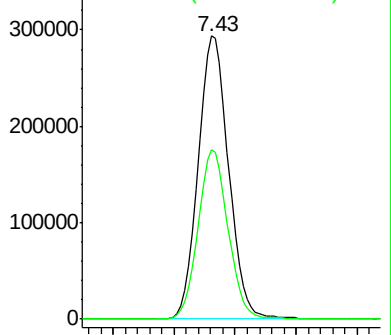
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Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#45

trans-1,3-Dichloropropene

Concen: 52.806 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009157.D

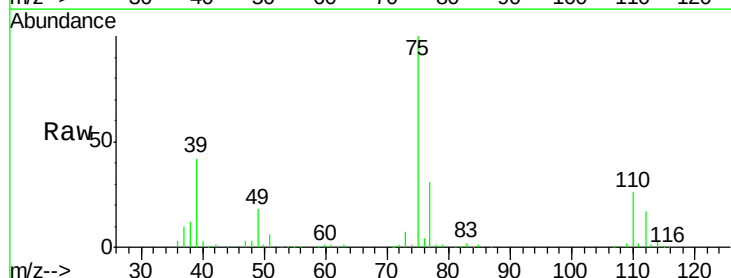
Acq: 04 Jan 2019 12:10

Tgt Ion: 75 Resp: 168376

Ion Ratio Lower Upper

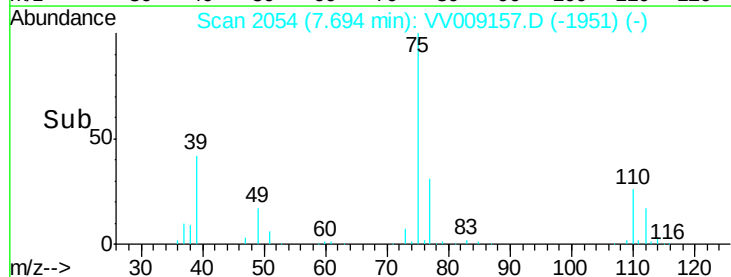
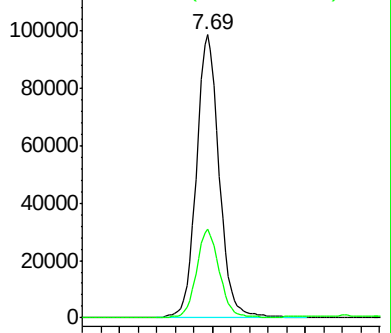
75 100

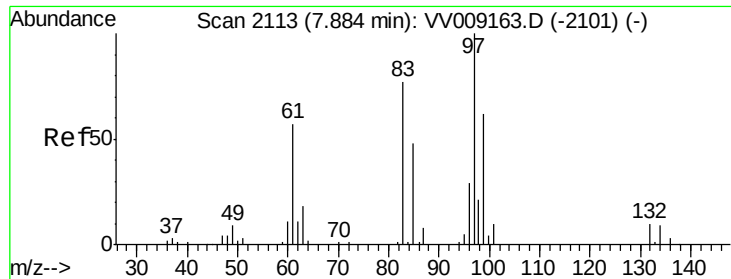
77 31.2 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





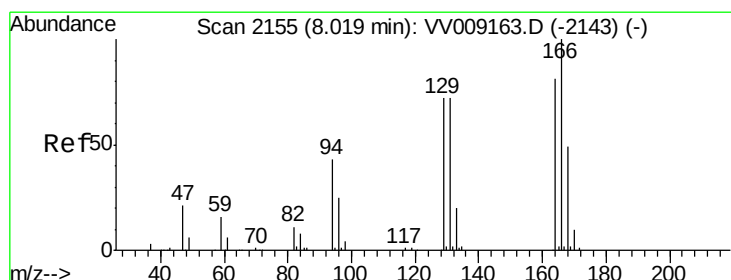
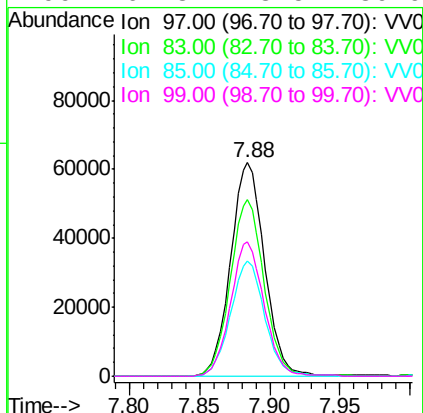
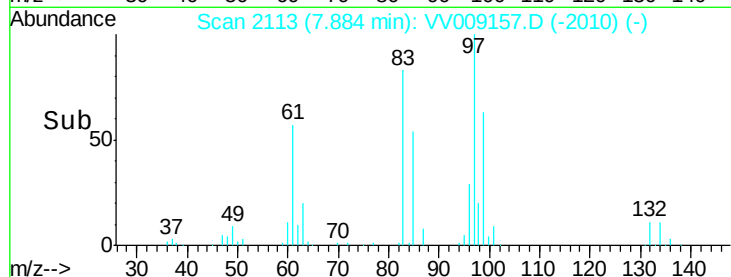
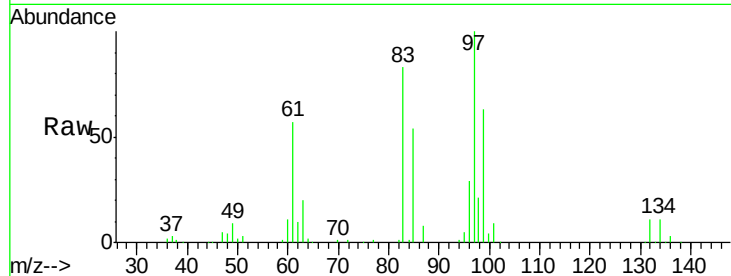
#46
1,1,2-Trichloroethane
Concen: 51.500 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Tot Ion	97	Resp	104612
Ion	Ratio	Lower	Upper
97	100		
83	82.6	56.0	104.0
85	53.8	36.5	67.9
99	62.8	43.5	80.9

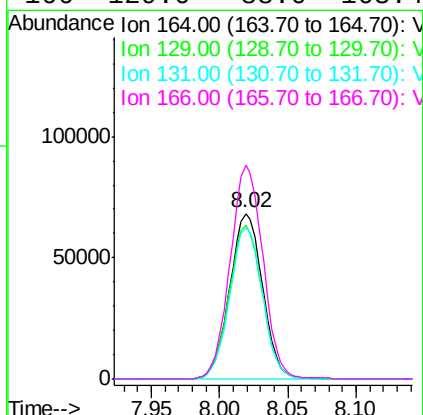
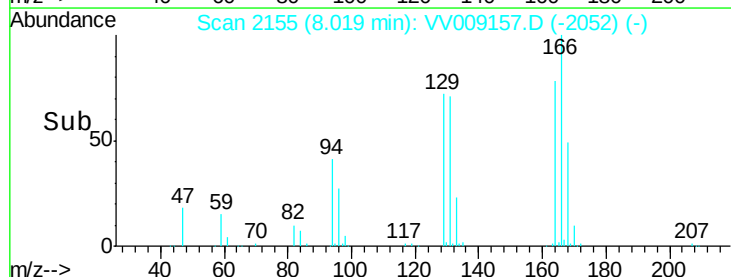
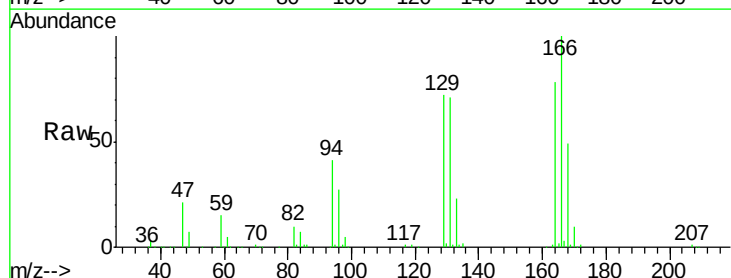
Manual Integrations
APPROVED

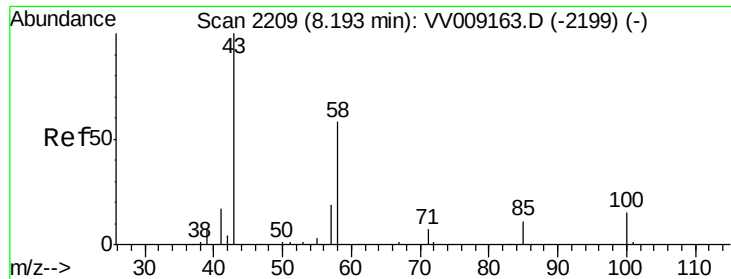
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#47
Tetrachloroethene
Concen: 48.157 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Tgt Ion	164	Resp	114611
Ion	Ratio	Lower	Upper
164	100		
129	92.6	63.5	117.9
131	91.6	63.2	117.4
166	129.0	88.0	163.4





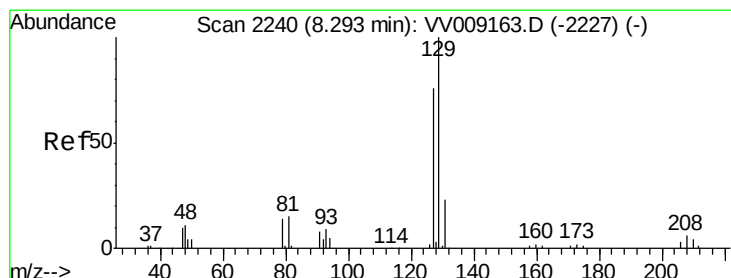
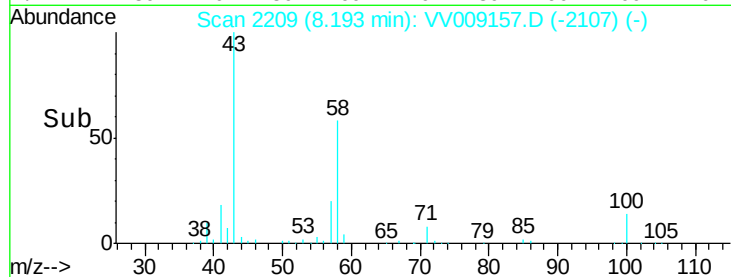
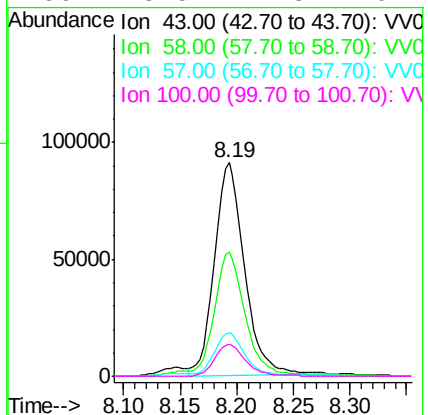
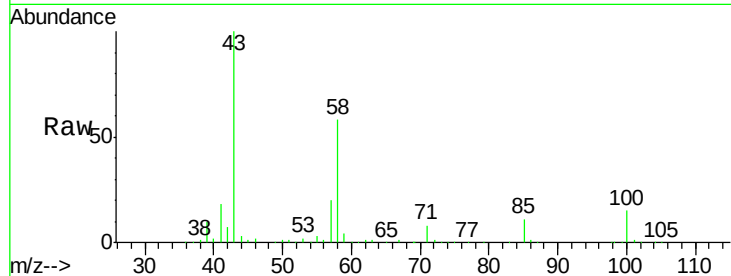
#49
2-Hexanone
Concen: 103.698 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Tot Ion	43	Resp	167189
Ion Ratio	Lower	Upper	
43	100		
58	58.0	46.7	70.1
57	19.0	15.5	23.3
100	15.5	12.8	19.2

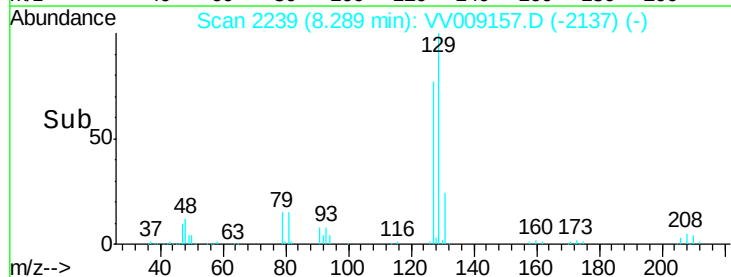
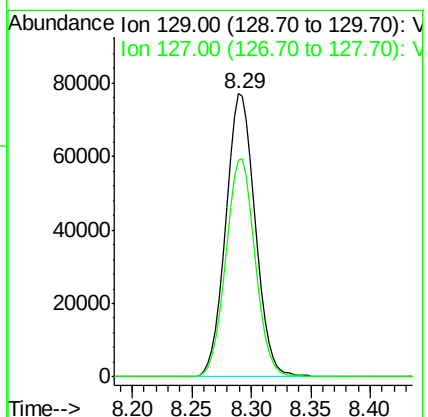
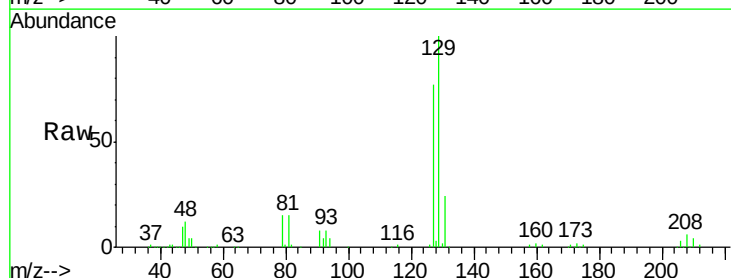
Manual Integrations
APPROVED

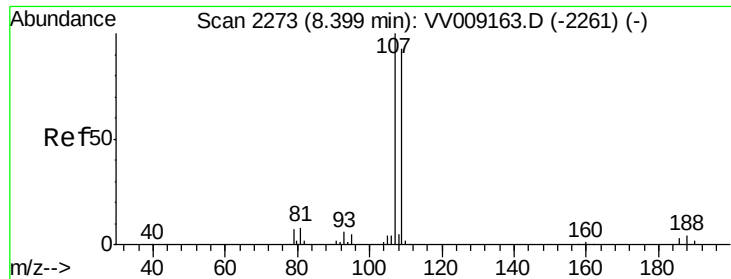
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#50
Dibromochloromethane
Concen: 53.050 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Tgt Ion	129	Resp	132386
Ion Ratio	Lower	Upper	
129	100		
127	76.8	53.1	98.7





#51

1,2-Dibromoethane

Concen: 51.066 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

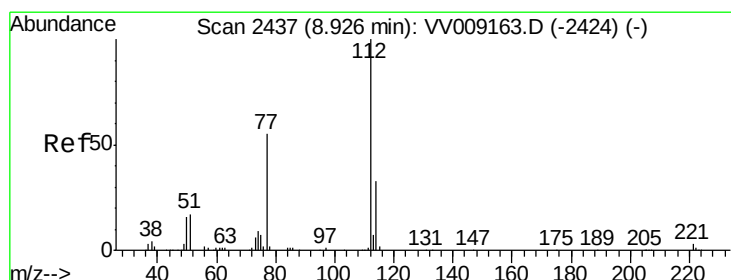
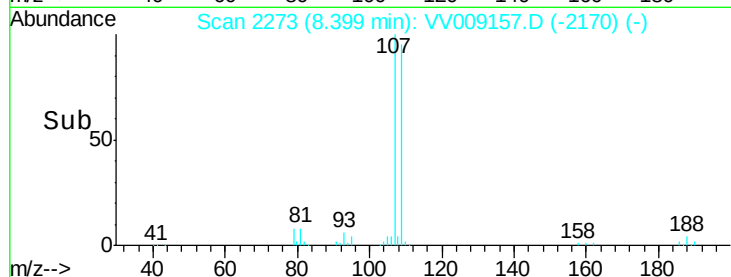
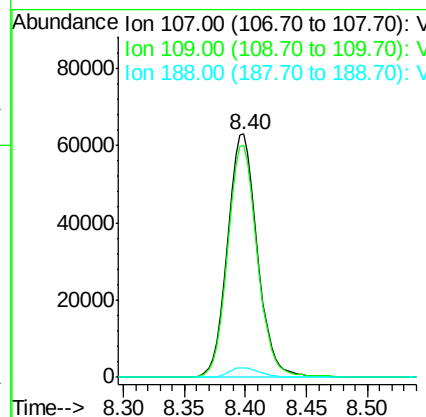
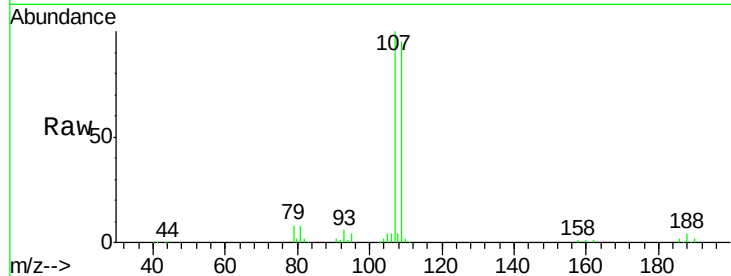
ClientSampleId :

VSTD05065

Tot Ion:	107	Resp:	108467
Ion Ratio	Lower	Upper	
107	100		
109	95.2	63.6	118.0
188	4.1	3.3	4.9

Manual Integrations
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#52

Chlorobenzene

Concen: 48.546 ug/L

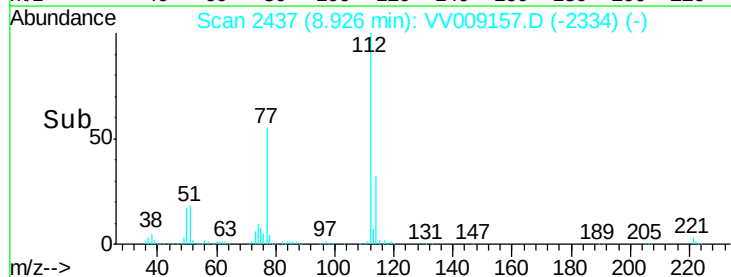
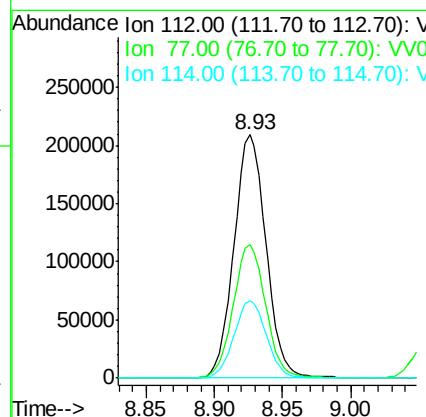
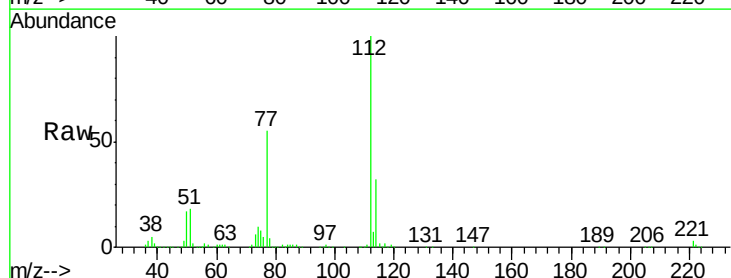
RT: 8.93 min Scan# 2437

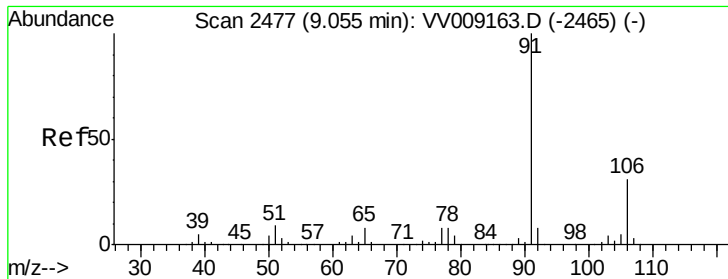
Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Tgt Ion:	112	Resp:	342433
Ion Ratio	Lower	Upper	
112	100		
77	55.1	44.6	66.8
114	31.9	22.5	41.9





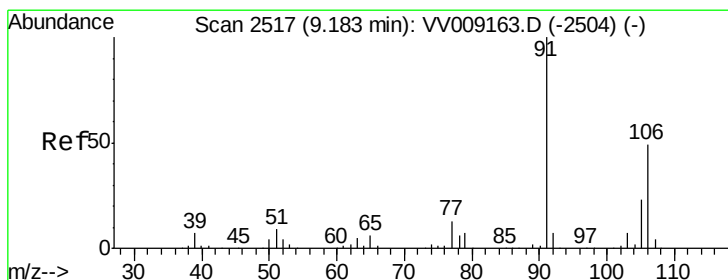
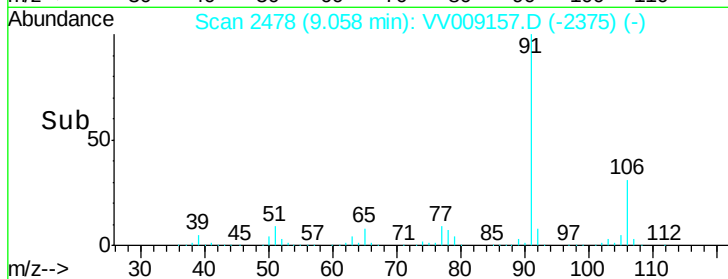
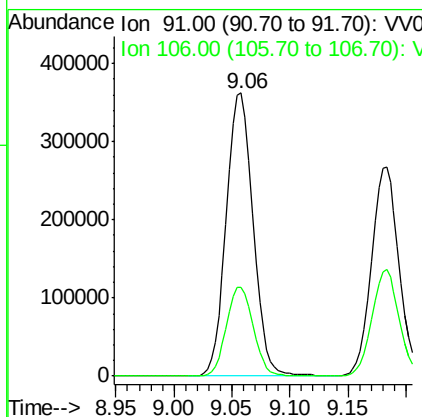
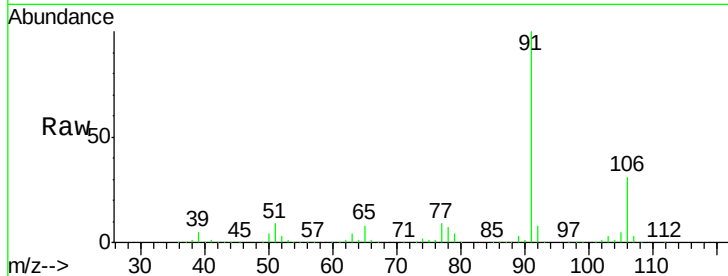
#53
Ethylbenzene
Concen: 49.818 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Instrument :
MSVOA_V
ClientSampled :
VSTD05065

Tot Ion: 91 Resp: 579196
Ion Ratio Lower Upper
91 100
106 31.5 22.5 41.9

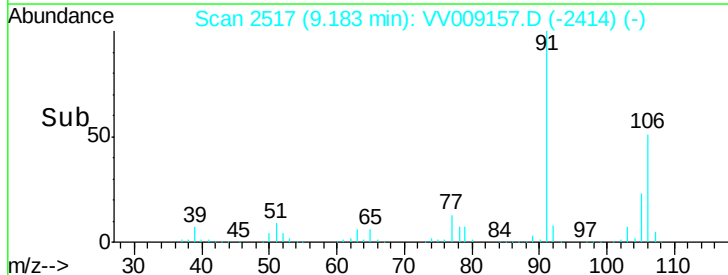
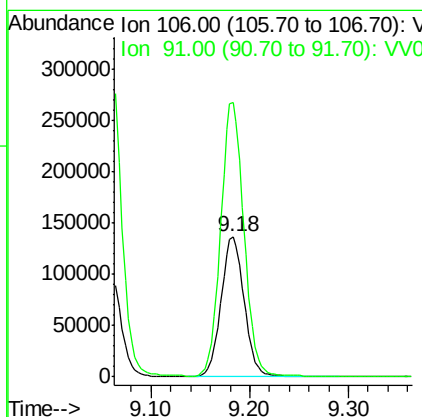
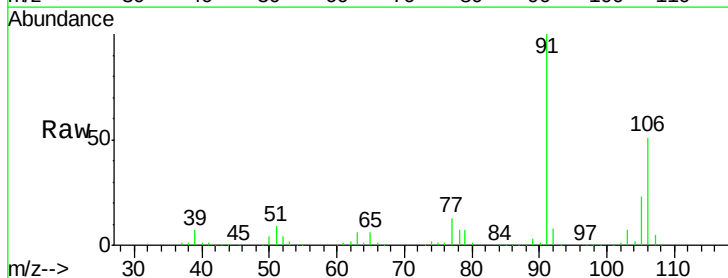
Manual Integrations
APPROVED

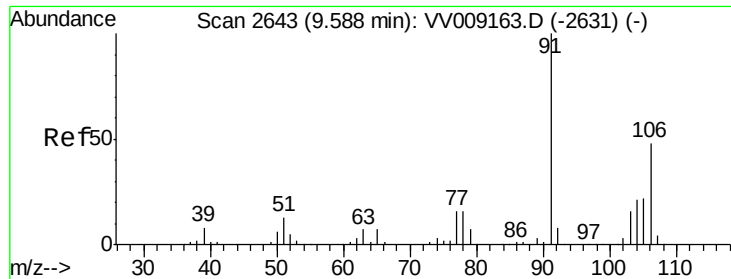
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#54
m,p-Xylene
Concen: 49.696 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Tgt Ion: 106 Resp: 225108
Ion Ratio Lower Upper
106 100
91 196.4 138.9 257.9





#55

o-xylene

Concen: 50.876 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tot Ion:106 Resp: 213086

Ion Ratio Lower Upper

106 100

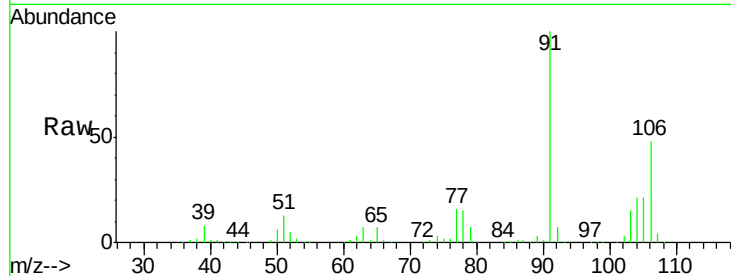
91 210.5 148.7 276.1

Manual Integrations

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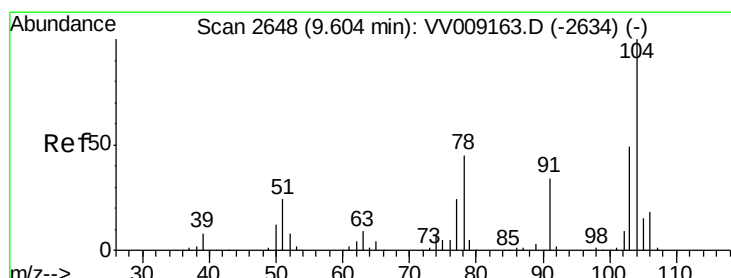
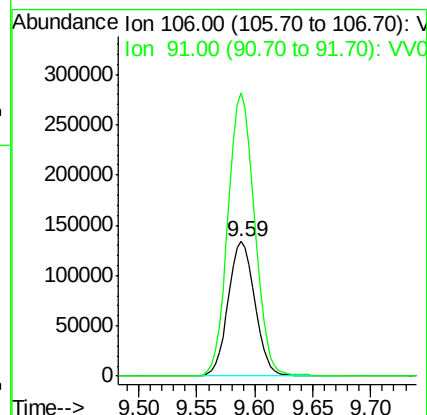
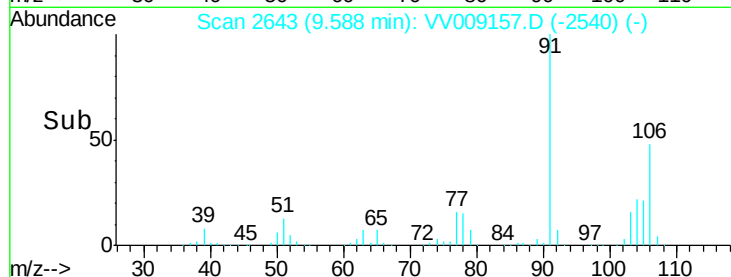
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 51.438 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009157.D

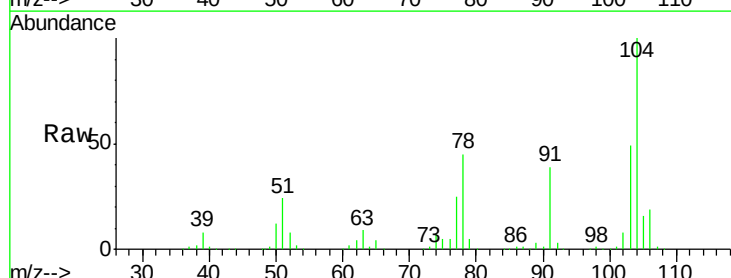
Acq: 04 Jan 2019 12:10

Tgt Ion:104 Resp: 363380

Ion Ratio Lower Upper

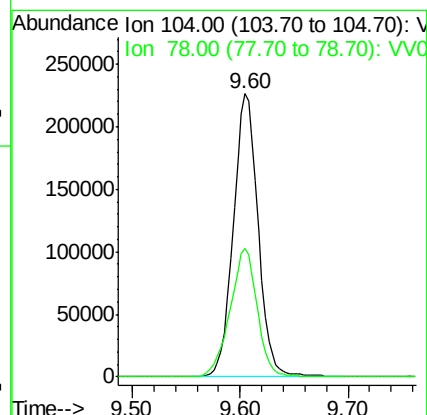
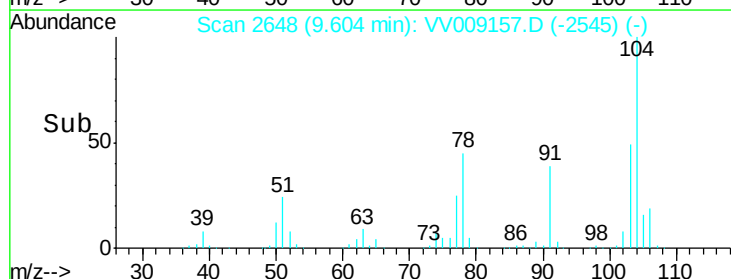
104 100

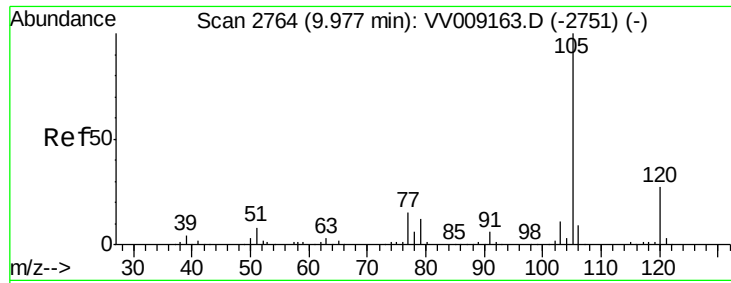
78 45.4 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 50.408 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

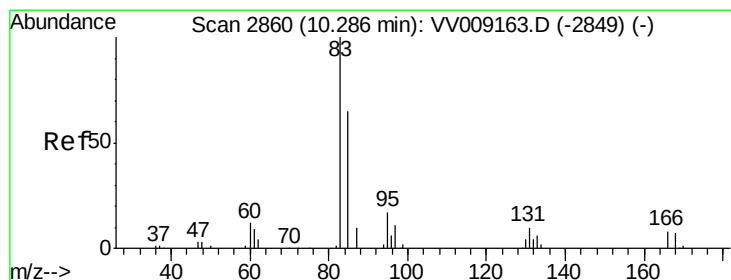
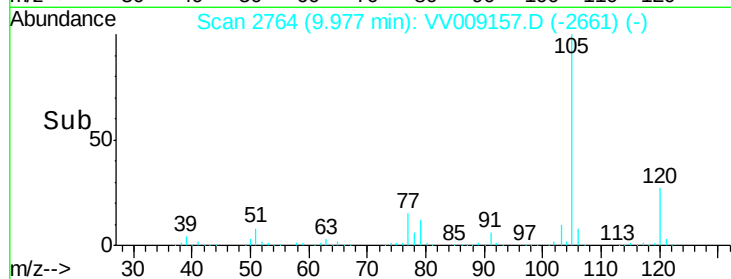
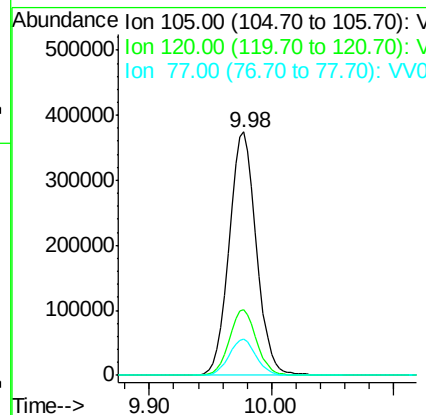
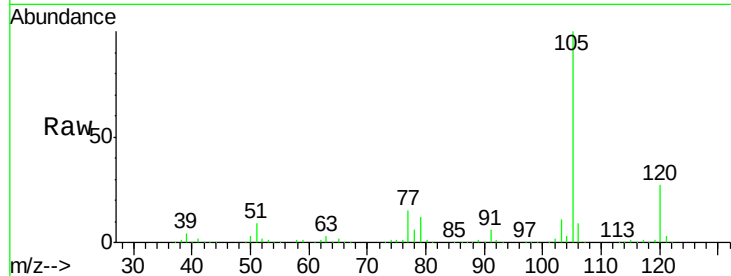
ClientSampleId :

VSTD05065

Tot Ion:	105	Resp:	585781
Ion Ratio	Lower	Upper	
105	100		
120	26.9	21.9	32.9
77	14.9	12.1	18.1

Manual Integrations
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#58

1,1,2,2-Tetrachloroethane

Concen: 52.508 ug/L

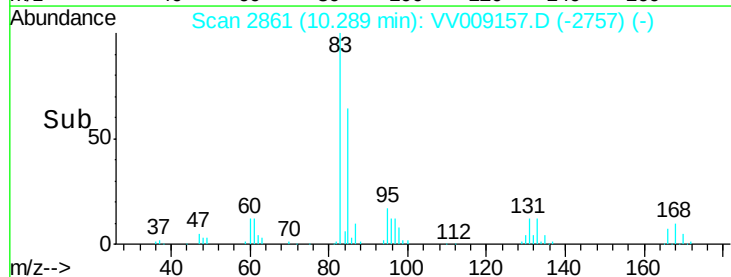
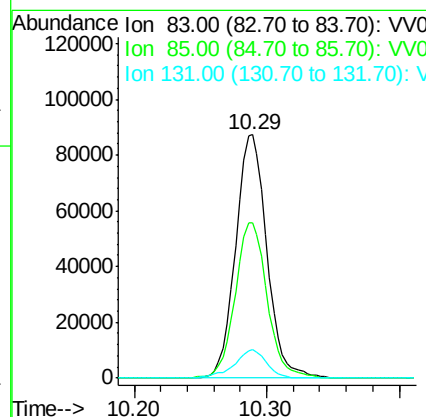
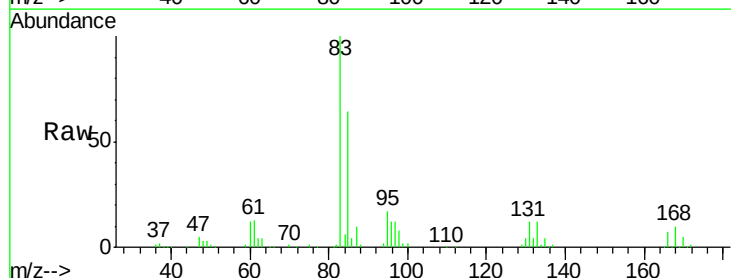
RT: 10.29 min Scan# 2861

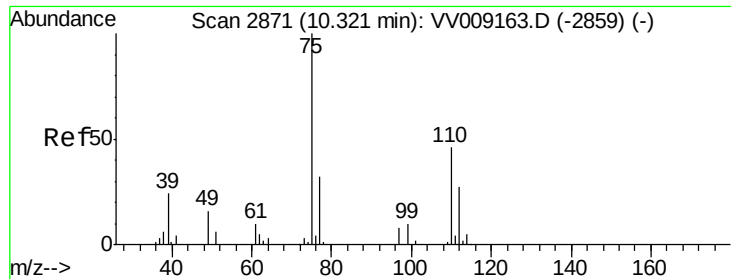
Delta R.T. 0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Tgt Ion:	83	Resp:	142906
Ion Ratio	Lower	Upper	
83	100		
85	63.9	45.4	84.2
131	11.5	9.4	14.0





#59

1,2,3-Trichloropropane

Concen: 51.657 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tot Ion: 75 Resp: 112373

Ion Ratio Lower Upper

75 100

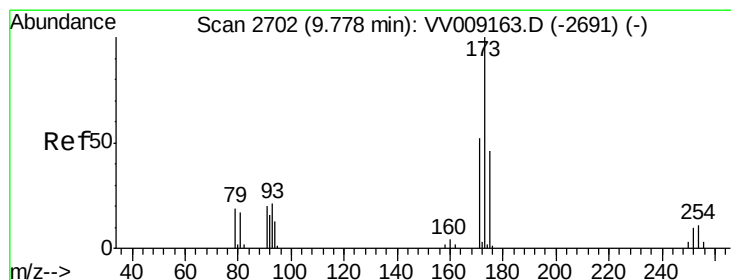
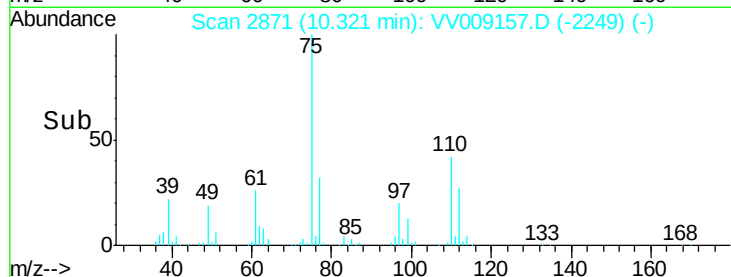
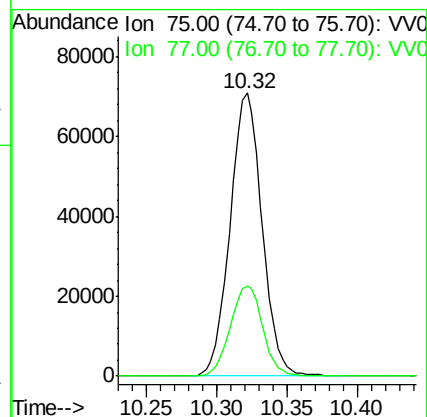
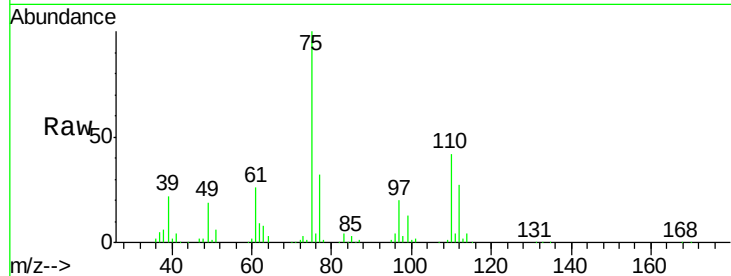
77 32.2 25.0 37.6

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#62

Bromoform

Concen: 52.663 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

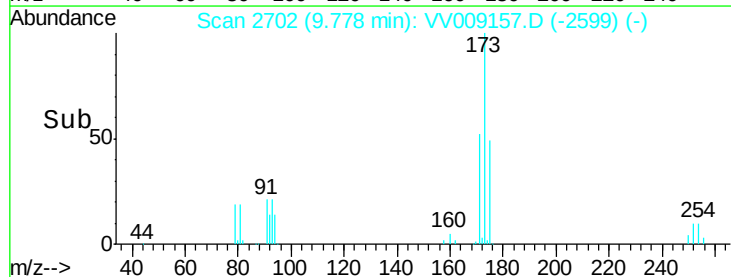
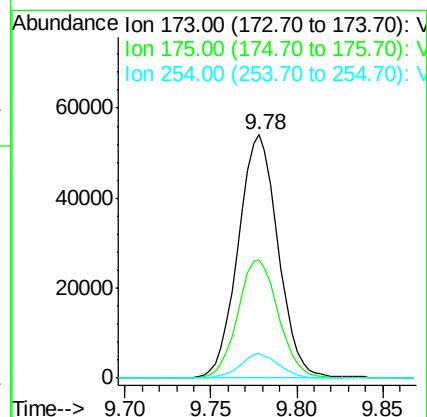
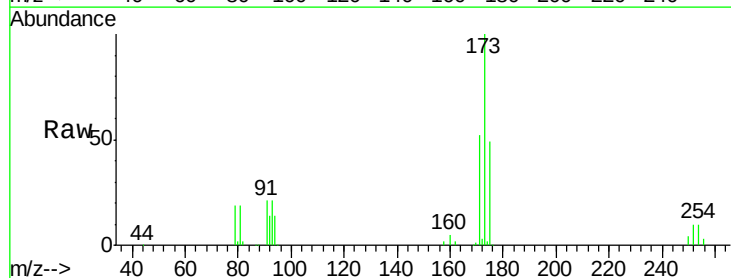
Tgt Ion: 173 Resp: 87474

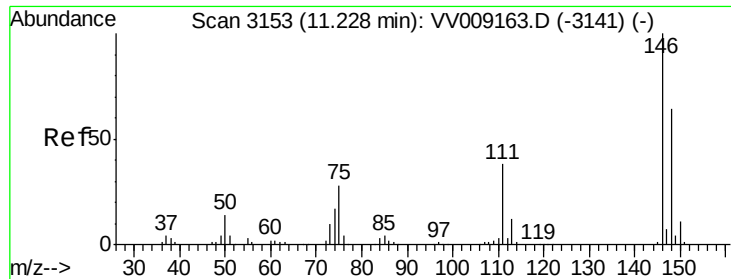
Ion Ratio Lower Upper

173 100

175 49.4 38.4 57.6

254 9.7 8.0 12.0





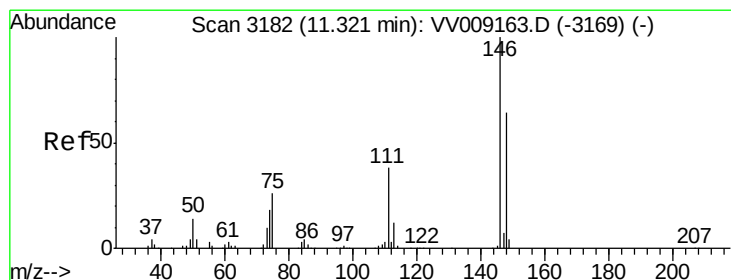
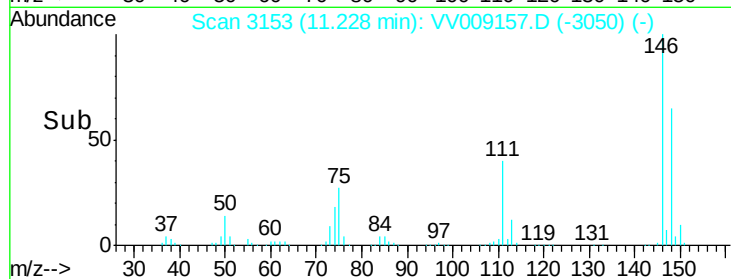
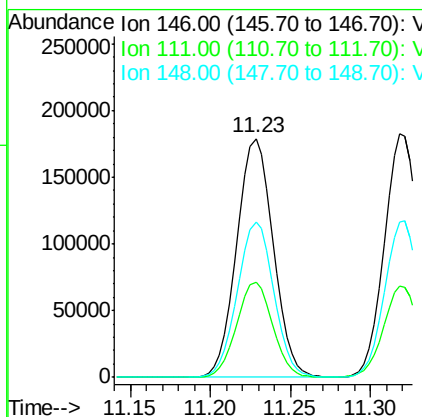
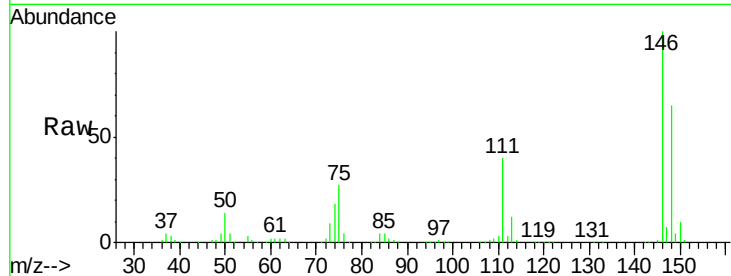
#63
 1,3-Dichlorobenzene
 Concen: 46.964 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	28.0	52.0
148	65.3	45.6	84.8

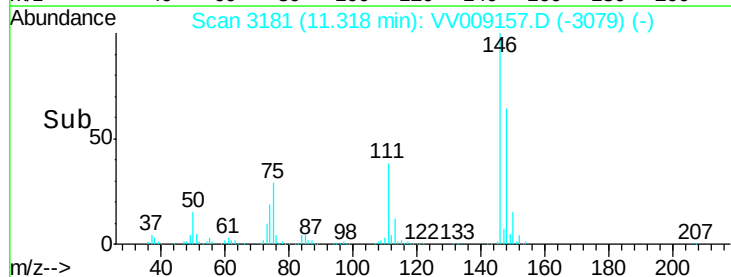
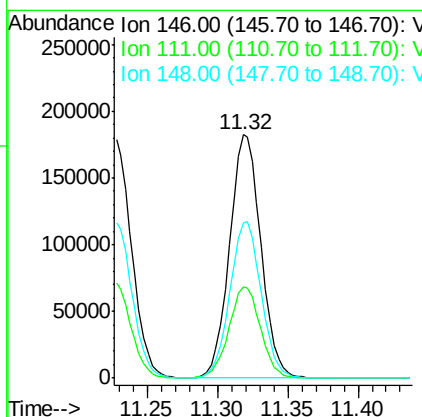
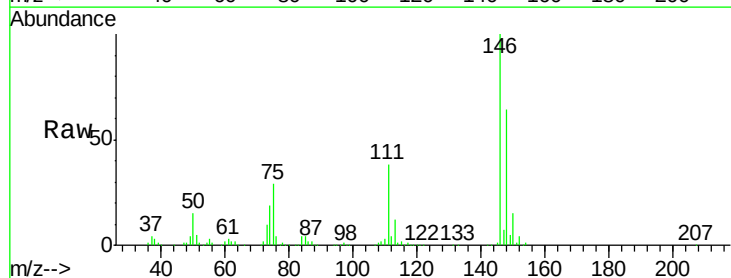
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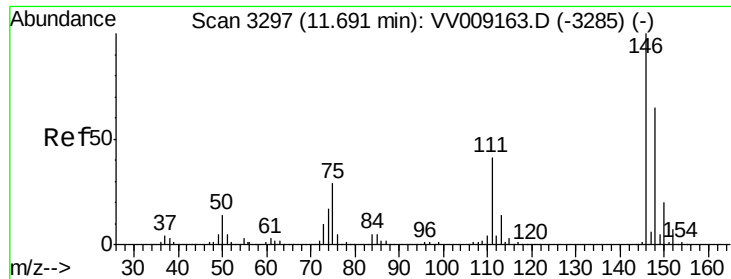
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#64
 1,4-Dichlorobenzene
 Concen: 45.784 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	26.0	48.4
148	63.7	43.4	80.6





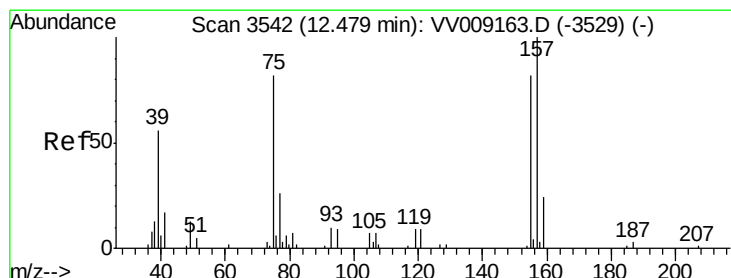
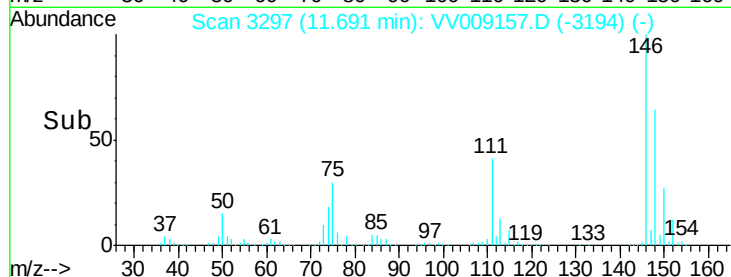
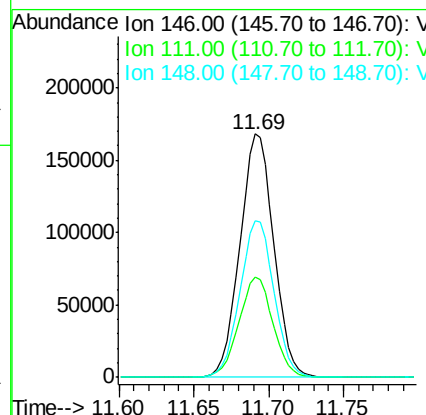
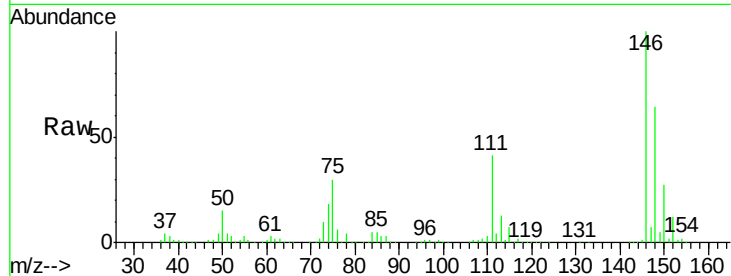
#65
 1,2-Dichlorobenzene
 Concen: 46.853 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	32.2	48.4
148	64.2	50.4	75.6

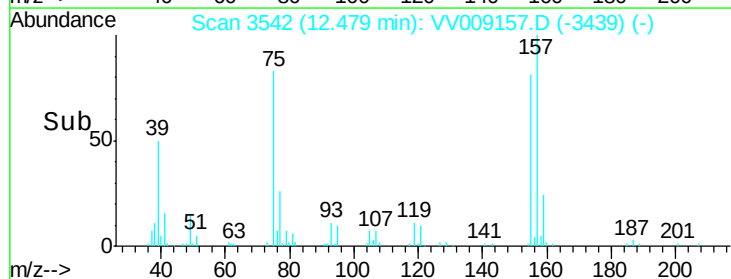
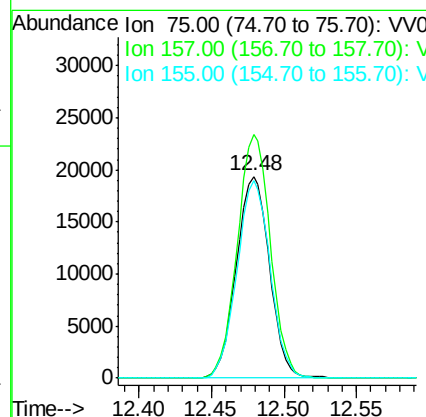
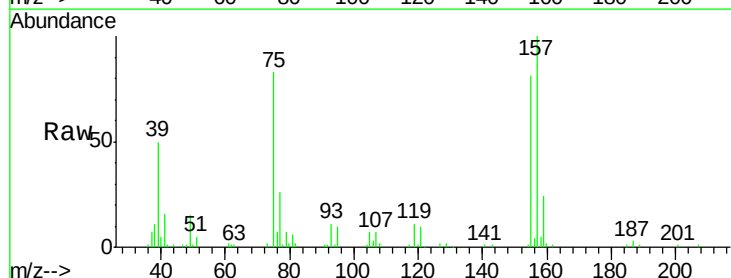
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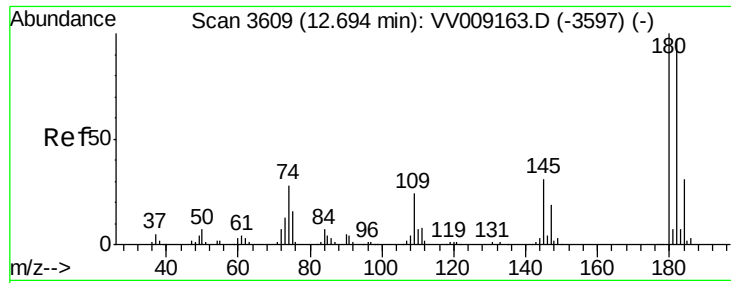
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.454 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. -0.00 min
 Lab File: VV009157.D
 Acq: 04 Jan 2019 12:10

Tgt Ion	Ratio	Lower	Upper
75	100		
157	120.6	96.9	145.3
155	97.6	68.0	102.0





#67

1,3,5-Trichlorobenzene

Concen: 46.710 ug/L

RT: 12.69 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

Instrument :

MSVOA_V

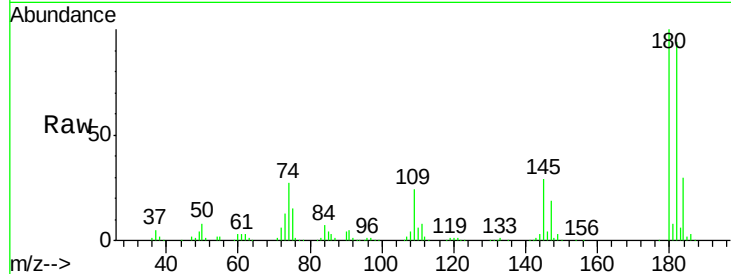
ClientSampleId :

VSTD05065

Tot Ion:	180	Resp:	223238
Ion Ratio	Lower	Upper	
180	100		
182	93.4	75.3	112.9
184	30.4	24.6	37.0
145	29.9	23.9	35.9

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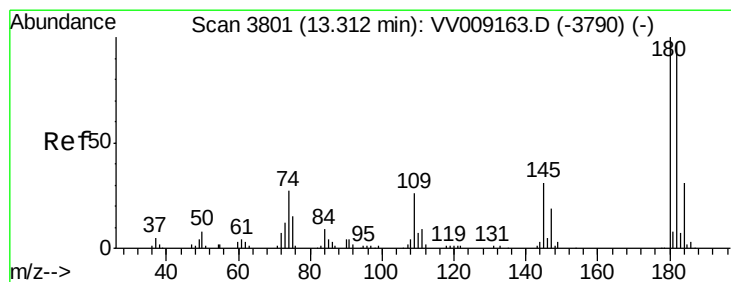
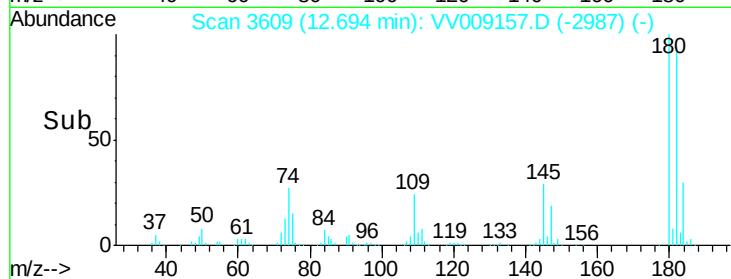
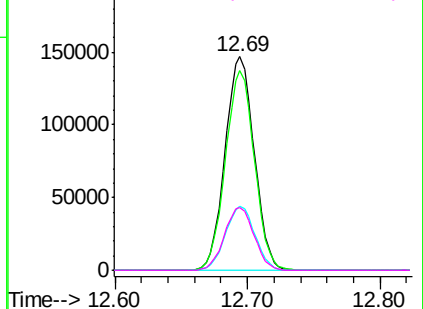


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 48.745 ug/L

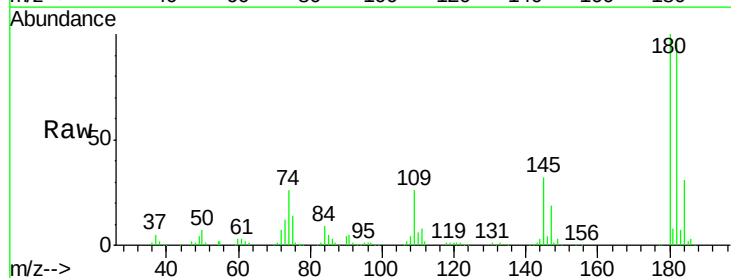
RT: 13.31 min Scan# 3801

Delta R.T. -0.00 min

Lab File: VV009157.D

Acq: 04 Jan 2019 12:10

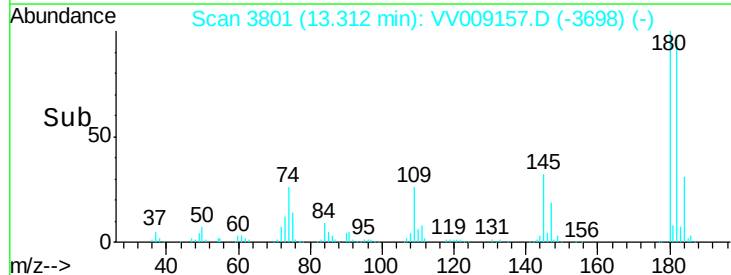
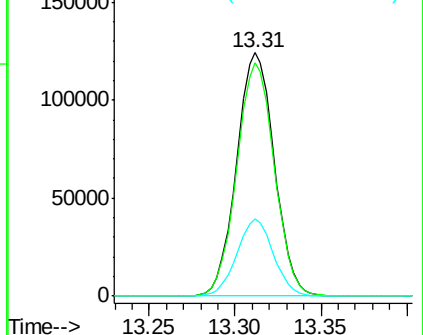
Tgt Ion:	180	Resp:	189621
Ion Ratio	Lower	Upper	
180	100		
182	95.5	76.2	114.4
145	30.8	25.4	38.0

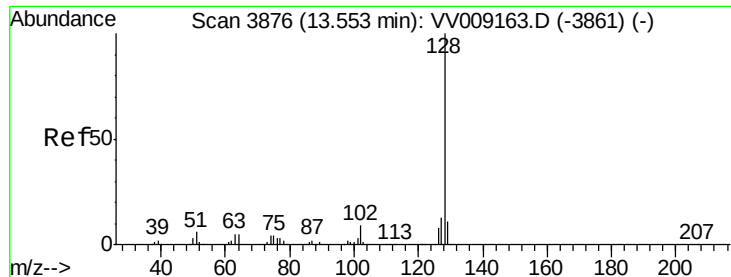


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





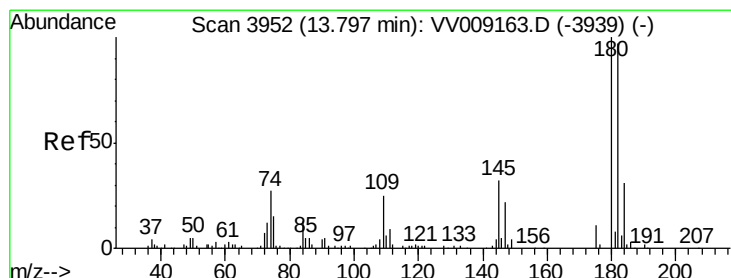
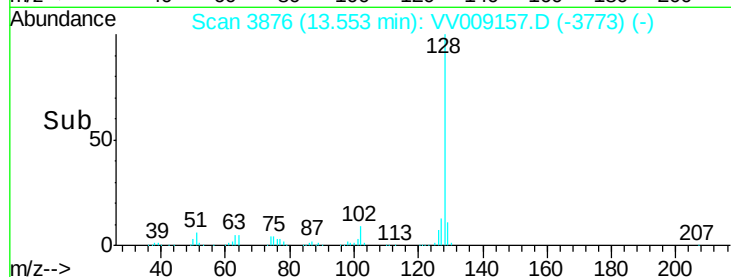
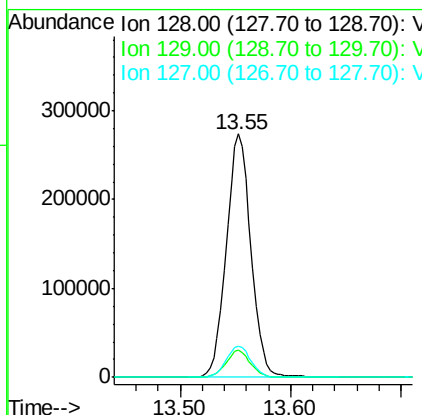
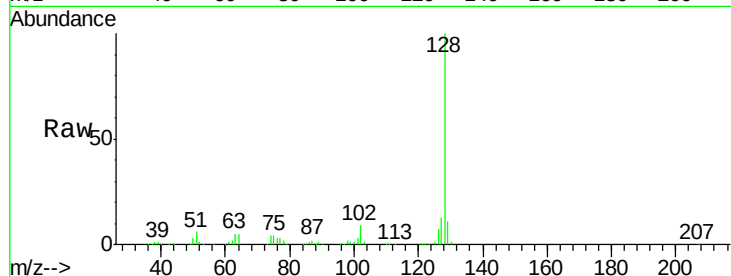
#69
Naphthalene
Concen: 53.462 ug/L
RT: 13.55 min Scan# 3876
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Instrument :
MSVOA_V
ClientSampled :
VSTD05065

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	12.9	10.4	15.6

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#70
1,2,3-Trichlorobenzene
Concen: 49.170 ug/L
RT: 13.80 min Scan# 3952
Delta R.T. -0.00 min
Lab File: VV009157.D
Acq: 04 Jan 2019 12:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	74.4	111.6
145	32.2	25.7	38.5

