

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100219\
 Data File : VV013028.D
 Acq On : 02 Oct 2019 12:17
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 3:10:46 PM

Quant Time: Oct 03 04:16:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 03 03:55:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	611664	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	640003	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	328848	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	196549	22.46	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.84%
7) Chloroethane-d5	1.58	69	176057	24.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.00%
11) 1,1-Dichloroethene-d2	2.13	63	276380	18.34	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	73.36%
21) 2-Butanone-d5	3.95	46	179539	58.11	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	116.22%
24) Chloroform-d	4.40	84	407405	24.73	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.92%
26) 1,2-Dichloroethane-d4	5.08	65	251603	26.84	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	107.36%
32) Benzene-d6	5.10	84	828997	23.48	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.92%
36) 1,2-Dichloropropane-d6	6.12	67	276251	24.96	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.84%
41) Toluene-d8	7.36	98	737917	22.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.56%
43) trans-1,3-Dichloropropene-	7.66	79	108760	23.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.68%
47) 2-Hexanone-d5	8.13	63	126315	54.14	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.28%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	263083	25.42	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.68%
66) 1,2-Dichlorobenzene-d4	11.67	152	323746	25.53	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.12%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	10206	1.557	ug/L	92
3) Chloromethane	1.25	50	15726	1.885	ug/L	99
5) Vinyl chloride	1.32	62	16608	1.932	ug/L	84
6) Bromomethane	1.53	94	10470	1.896	ug/L	86
8) Chloroethane	1.60	64	10307	1.897	ug/L	98
9) Trichlorofluoromethane	1.77	101	24103	2.070	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	17163	2.300	ug/L	87
12) 1,1-Dichloroethene	2.14	96	15692	2.239	ug/L #	1
13) Acetone	2.21	43	15845	4.866	ug/L	92
14) Carbon disulfide	2.32	76	40158	1.867	ug/L	98
15) Methyl Acetate	2.47	43	10568	2.103	ug/L	99
16) Methylene chloride	2.53	84	28693	2.864	ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	17010	2.058	ug/L	97
18) Methyl tert-butyl Ether	2.80	73	42332	2.036	ug/L	99
19) 1,1-Dichloroethane	3.23	63	31415	2.071	ug/L	98
20) cis-1,2-Dichloroethene	3.96	96	19019	2.069	ug/L	99
22) 2-Butanone	4.05	43	12343m	3.458	ug/L	

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

23) Bromochloromethane	4.30	128	9451m	2.098	ug/L	
25) Chloroform	4.42	83	39368	2.490	ug/L	99
27) 1,2-Dichloroethane	5.18	62	22545	2.074	ug/L	97
29) Cyclohexane	4.72	56	22805	1.619	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	24974	1.910	ug/L	99
31) Carbon tetrachloride	4.87	117	21976	1.867	ug/L	99
33) Benzene	5.15	78	70274	1.921	ug/L	100
34) Trichloroethene	5.96	95	19203	1.937	ug/L	96
35) Methylcyclohexane	6.17	83	25475	1.637	ug/L	98
37) 1,2-Dichloropropane	6.22	63	18687	1.990	ug/L	99
38) Bromodichloromethane	6.55	83	24334	1.986	ug/L	93
39) cis-1,3-Dichloropropene	7.07	75	25865	1.830	ug/L	97
40) 4-Methyl-2-pentanone	7.28	43	30097	4.011	ug/L	98
42) Toluene	7.43	91	77947	2.003	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	22281m	1.919	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	16466	2.067	ug/L	99
46) Tetrachloroethene	8.02	164	16077	1.960	ug/L	100
48) 2-Hexanone	8.19	43	24172	4.424	ug/L	97
49) Dibromochloromethane	8.29	129	18212	2.005	ug/L	97
50) 1,2-Dibromoethane	8.40	107	16340	2.080	ug/L	98
51) Chlorobenzene	8.92	112	53533	2.028	ug/L	98
52) Ethylbenzene	9.05	91	75323	1.762	ug/L	98
53) m,p-Xylene	9.18	106	27264	1.668	ug/L	88
54) o-Xylene	9.59	106	25494	1.631	ug/L	98
55) Styrene	9.60	104	42981	1.570	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.28	83	22067	2.272	ug/L	98
59) Bromoform	9.77	173	11416	2.027	ug/L	# 96
60) Isopropylbenzene	9.97	105	64877	1.637	ug/L	97
61) 1,2,3-Trichloropropane	10.31	75	17076	2.281	ug/L	100
62) 1,3,5-Trimethylbenzene	10.58	105	50435	1.579	ug/L	98
63) 1,2,4-Trimethylbenzene	10.95	105	49854	1.555	ug/L	97
64) 1,3-Dichlorobenzene	11.22	146	41811	2.010	ug/L	99
65) 1,4-Dichlorobenzene	11.31	146	46228	2.116	ug/L	99
67) 1,2-Dichlorobenzene	11.69	146	43015	2.166	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.48	75	3396	2.092	ug/L	93
69) 1,3,5-Trichlorobenzene	12.69	180	32103	1.917	ug/L	96
70) 1,2,4-trichlorobenzene	13.31	180	27399	1.892	ug/L	97
71) Naphthalene	13.55	128	46889	1.662	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	26399	1.890	ug/L	98

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

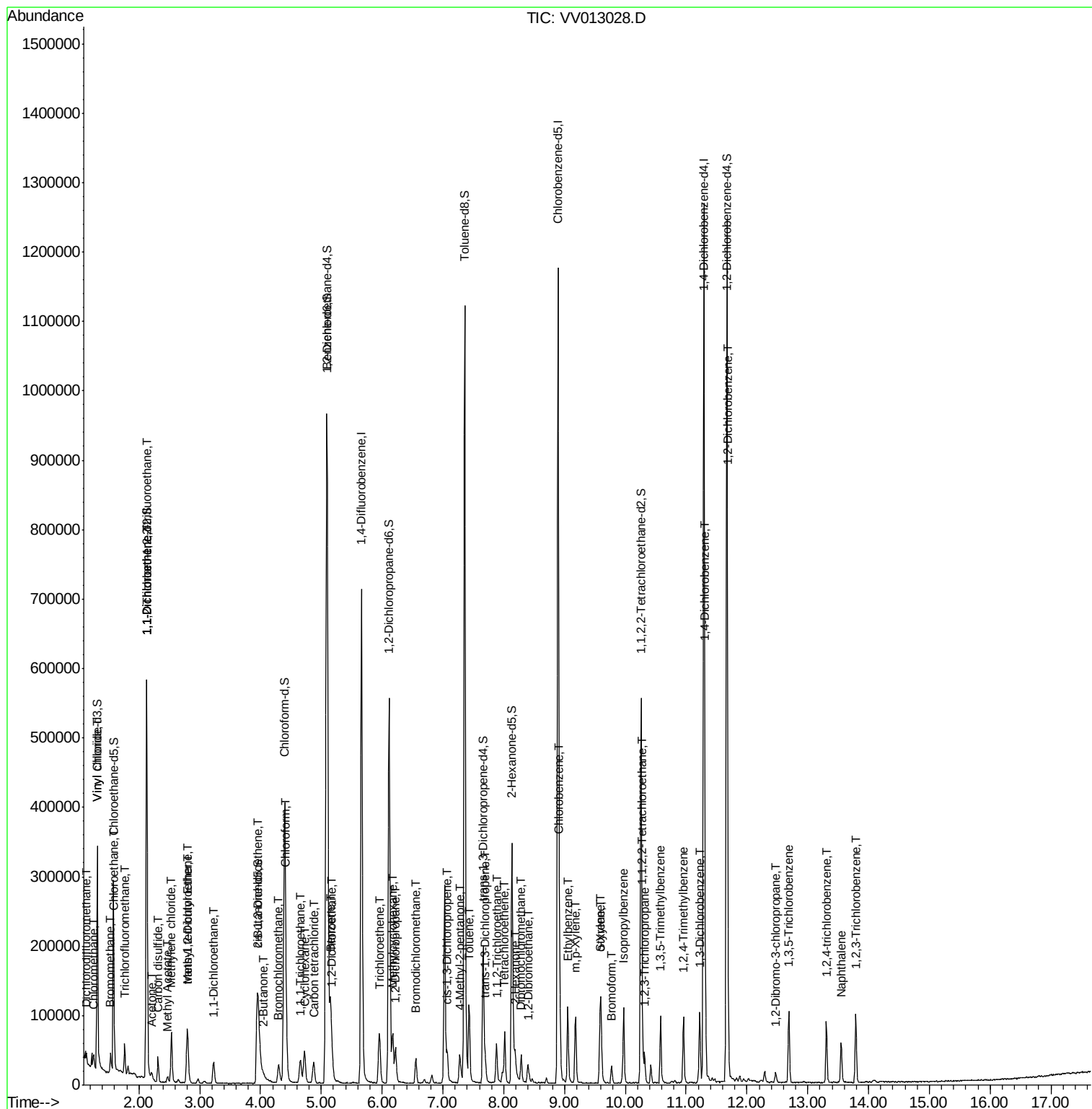
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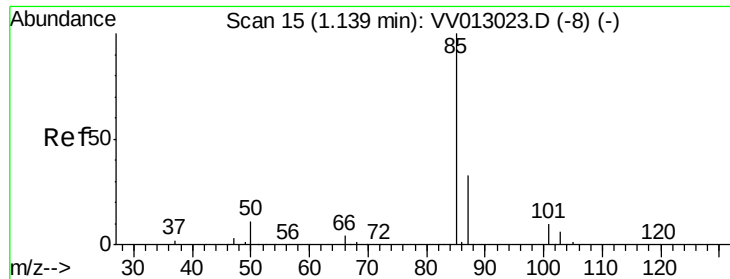
Instrument :
MSVOA_V
ClientSampleId :
MDL04

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Quant Title : VOC Analysis
QLast Update : Thu Oct 03 03:55:32 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.557 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 85 Resp: 10206

Ion Ratio Lower Upper

85 100

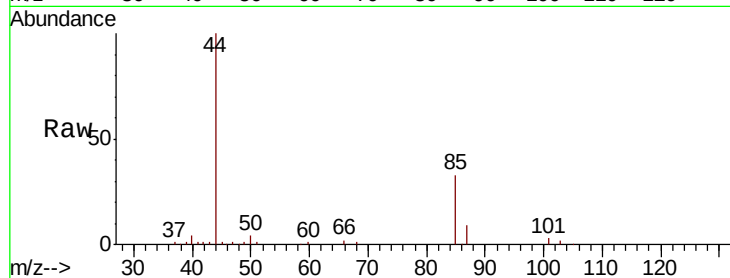
87 27.9 25.7 38.5

Manual Integrations

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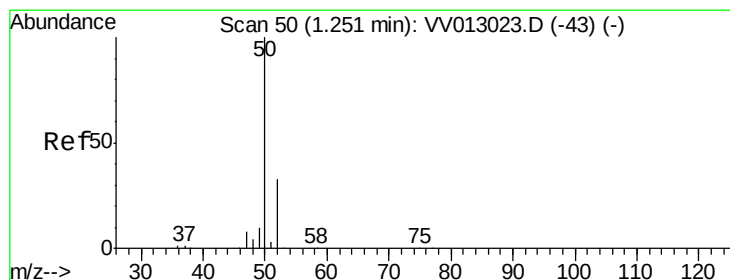
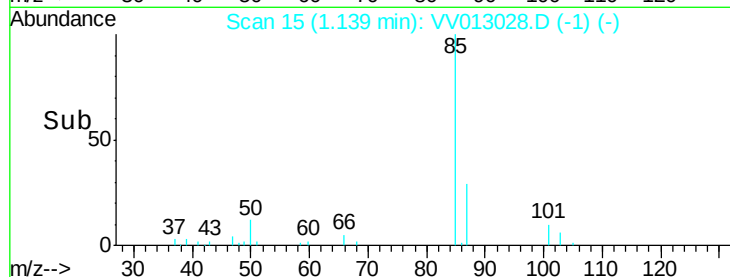
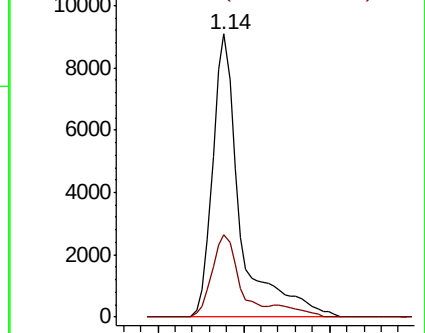
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 1.885 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013028.D

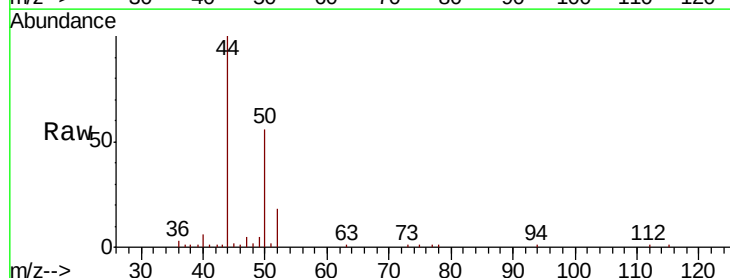
Acq: 02 Oct 2019 12:17

Tgt Ion: 50 Resp: 15726

Ion Ratio Lower Upper

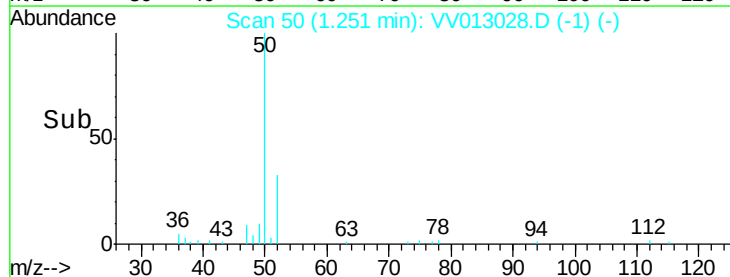
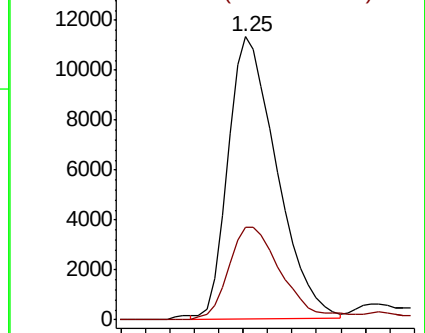
50 100

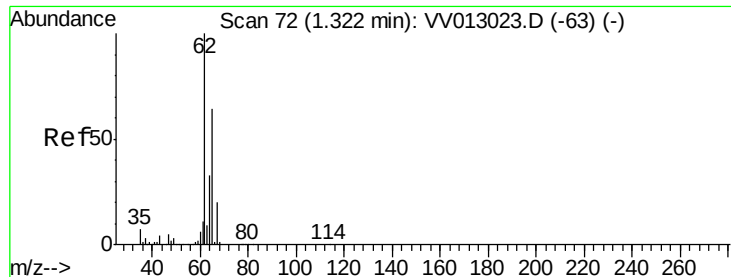
52 32.5 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 1.932 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 62 Resp: 16608

Ion Ratio Lower Upper

62 100

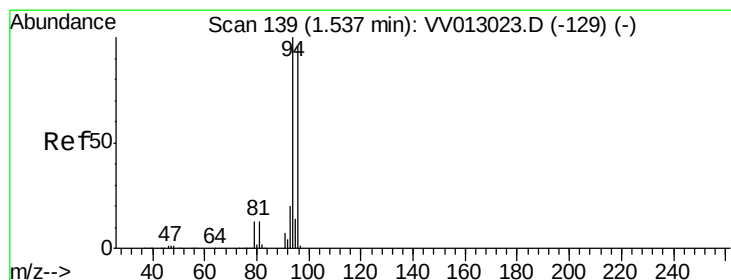
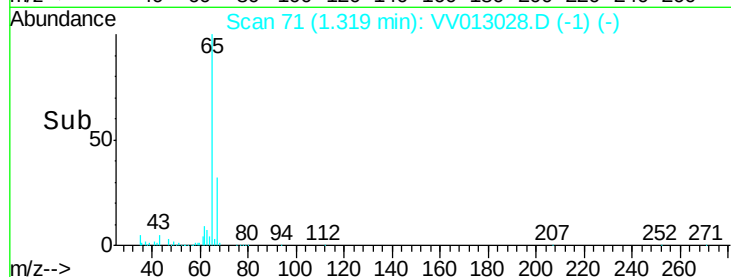
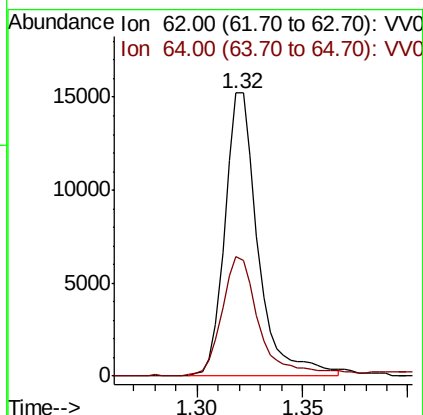
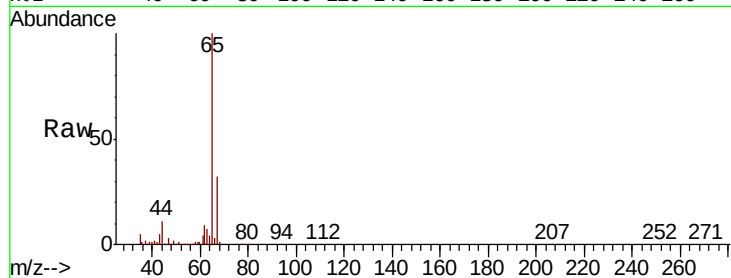
64 42.0 23.1 42.9

Manual Integrations

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#6

Bromomethane

Concen: 1.896 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV013028.D

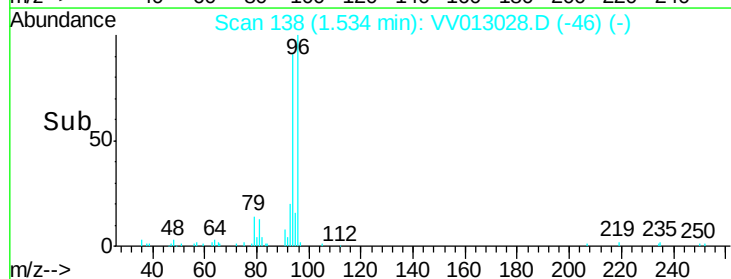
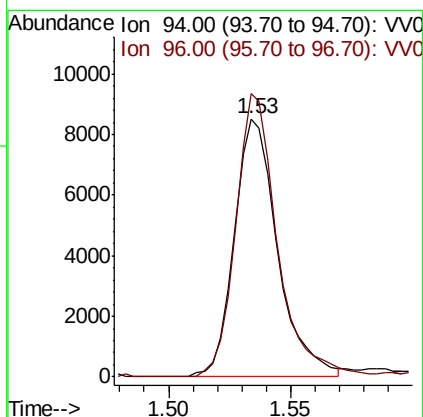
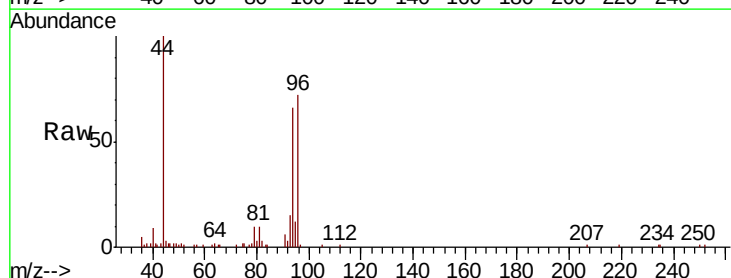
Acq: 02 Oct 2019 12:17

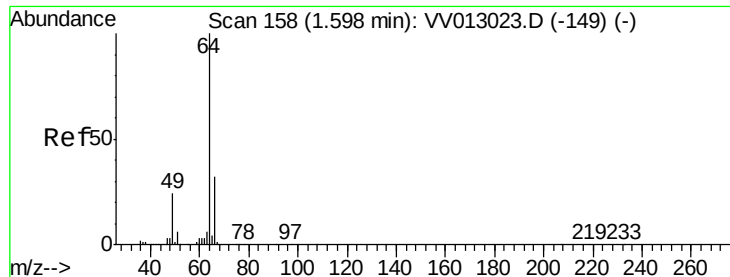
Tgt Ion: 94 Resp: 10470

Ion Ratio Lower Upper

94 100

96 109.7 67.4 125.2





#8

Chloroethane

Concen: 1.897 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 64 Resp: 10307

Ion Ratio Lower Upper

64 100

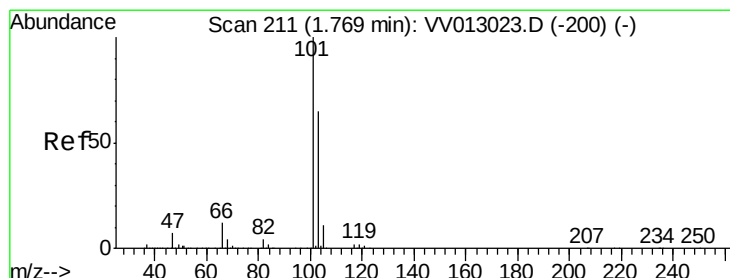
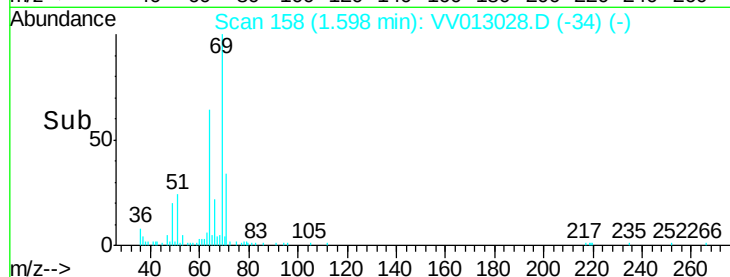
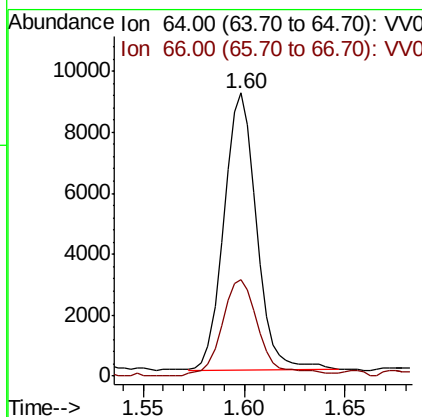
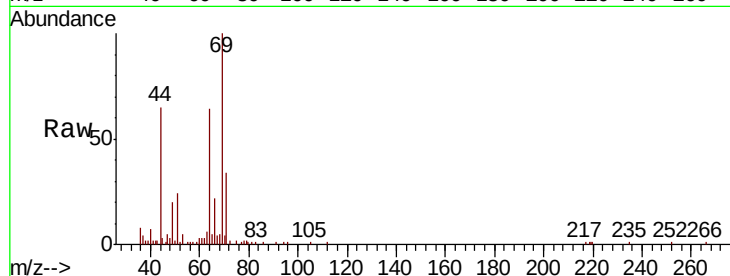
66 33.9 22.8 42.4

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.070 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV013028.D

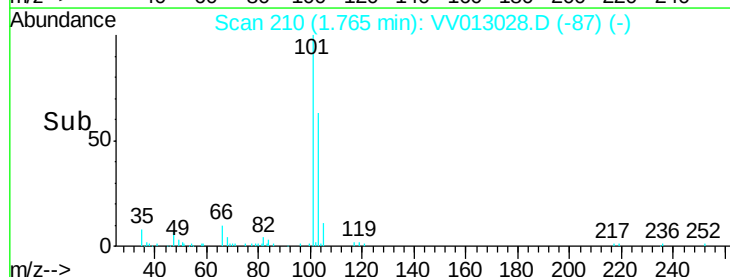
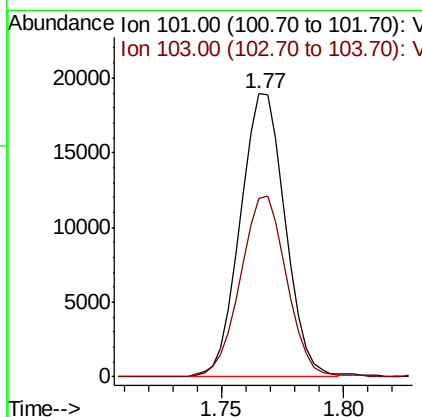
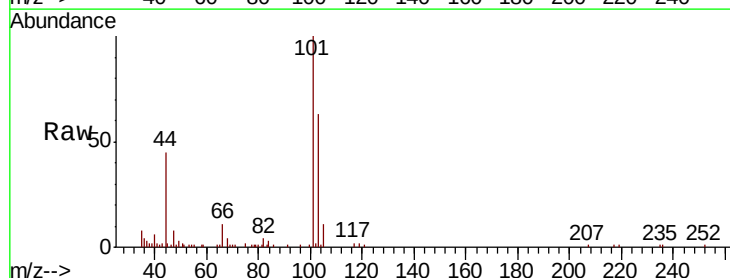
Acq: 02 Oct 2019 12:17

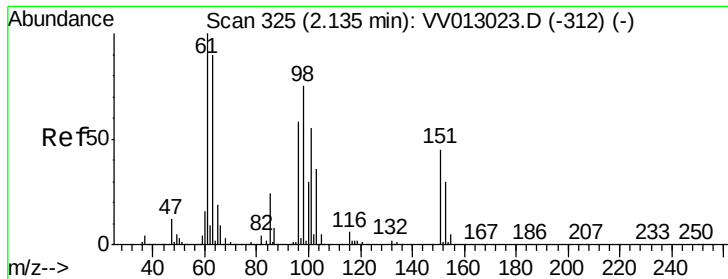
Tgt Ion: 101 Resp: 24103

Ion Ratio Lower Upper

101 100

103 65.9 52.2 78.2





#10

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

Concen: 2.300 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

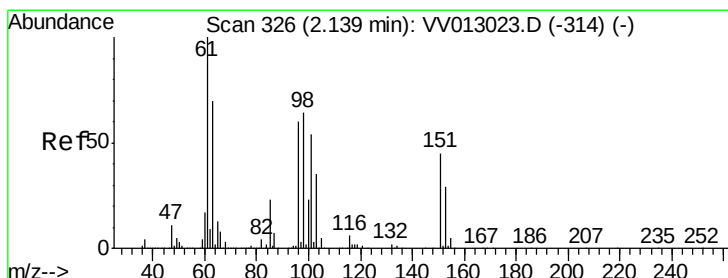
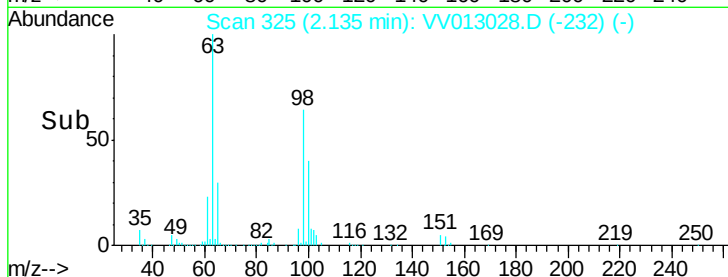
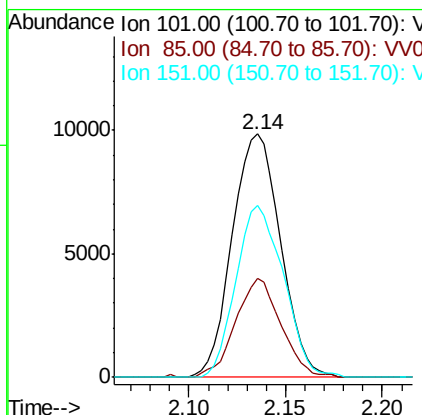
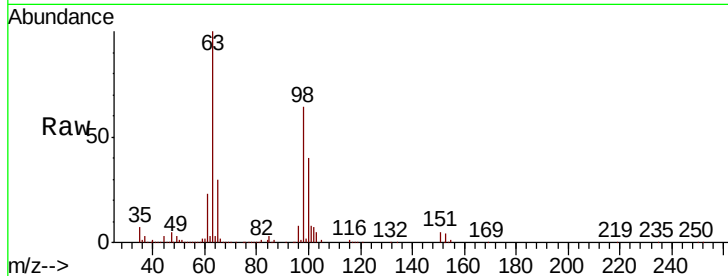
ClientSampled :

MDL04

Tot Ion:	101	Resp:	17163
Ion Ratio	Lower	Upper	
101	100		
85	37.8	33.6	50.4
151	69.4	66.9	100.3

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#12

1,1-Dichloroethene

Concen: 2.239 ug/L

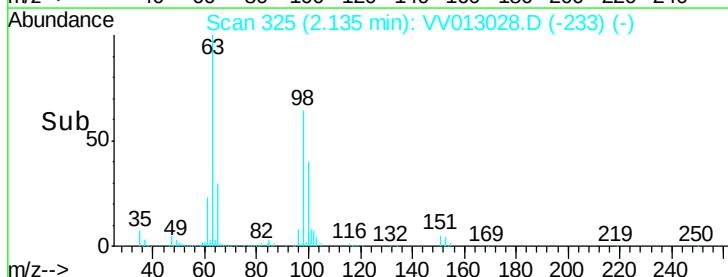
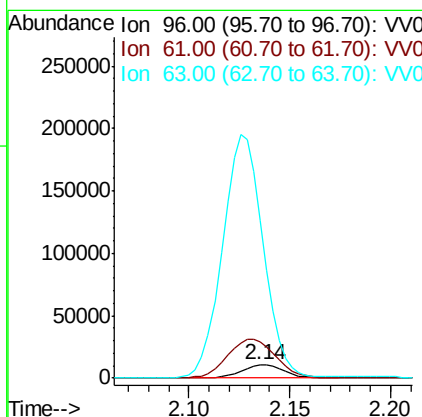
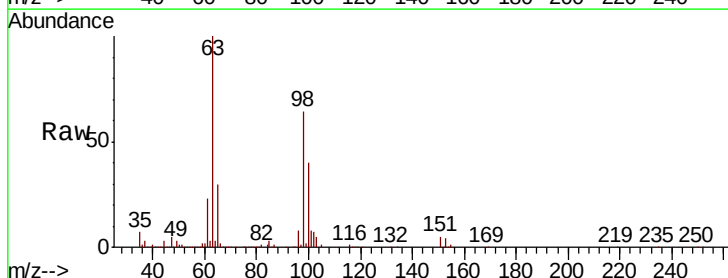
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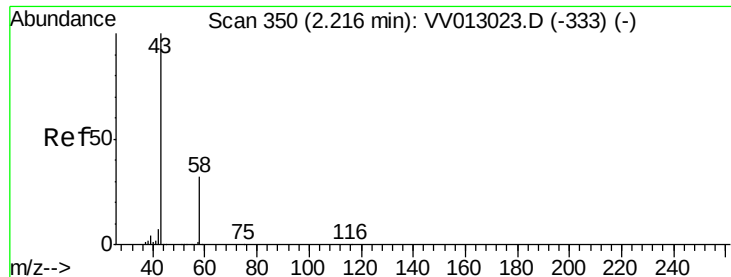
Delta R.T. -0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Tgt Ion:	96	Resp:	15692
Ion Ratio	Lower	Upper	
96	100		
61	271.6	117.7	218.7#
63	1199.4	90.4	168.0#





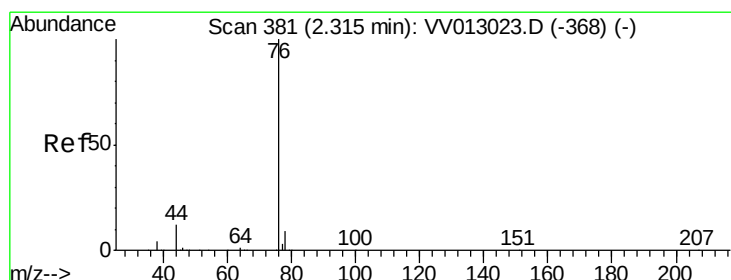
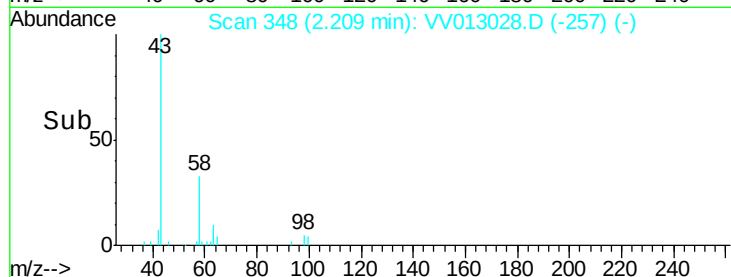
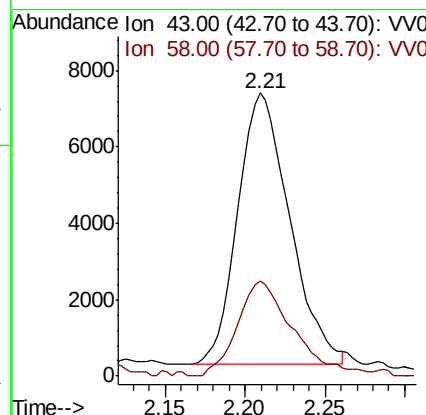
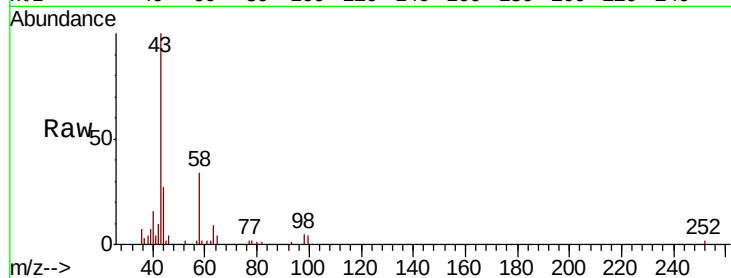
#13
Acetone
Concen: 4.866 ug/L
RT: 2.21 min Scan# 348
Delta R.T. -0.01 min
Lab File: VV013028.D
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Tot Ion	Ratio	Lower	Upper
43	100		
58	37.0	0.0	65.2

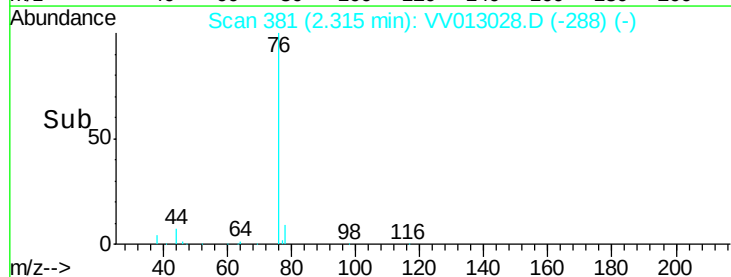
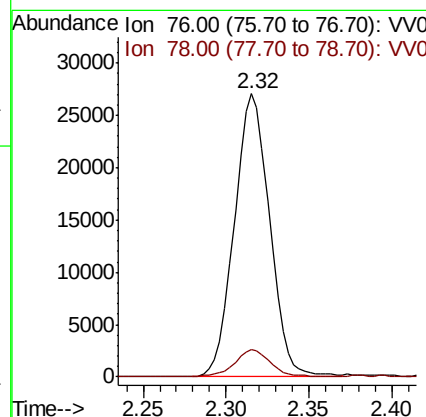
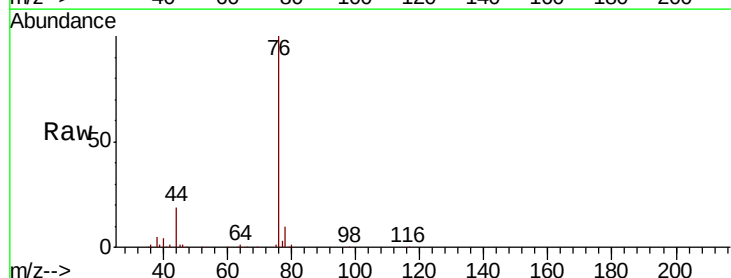
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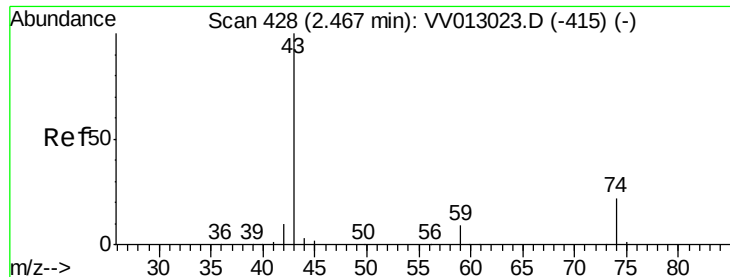
MMDadoda
10/9/2019 3:10:46 PM



#14
Carbon disulfide
Concen: 1.867 ug/L
RT: 2.32 min Scan# 381
Delta R.T. -0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.1	10.7





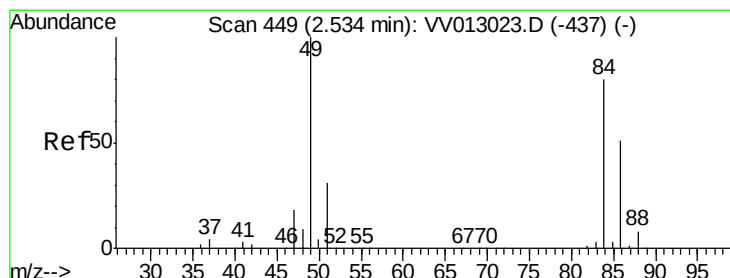
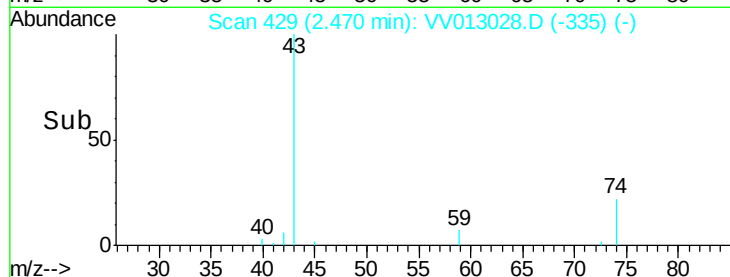
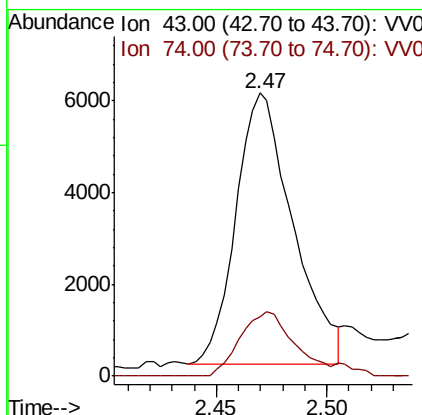
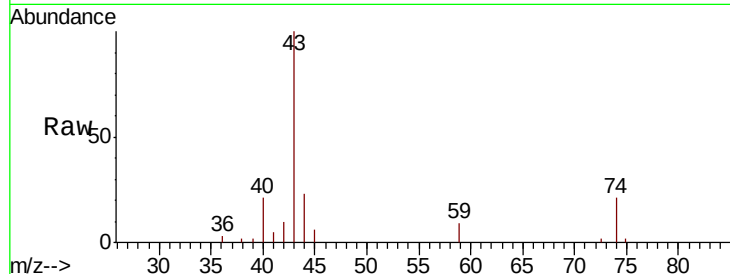
#15
Methvl Acetate
Concen: 2.103 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion: 43 Resp: 10568
Ion Ratio Lower Upper
43 100
74 22.7 18.5 27.7

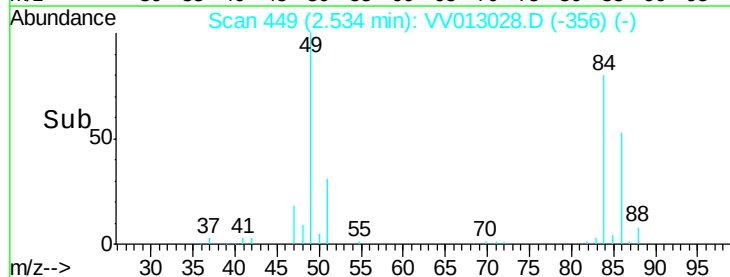
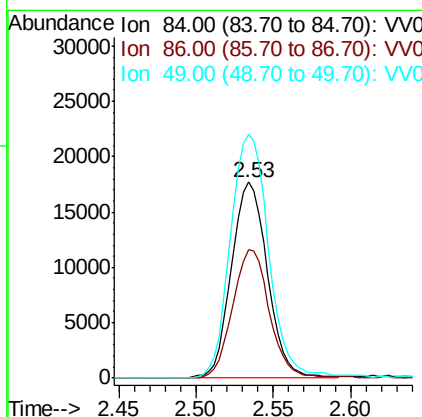
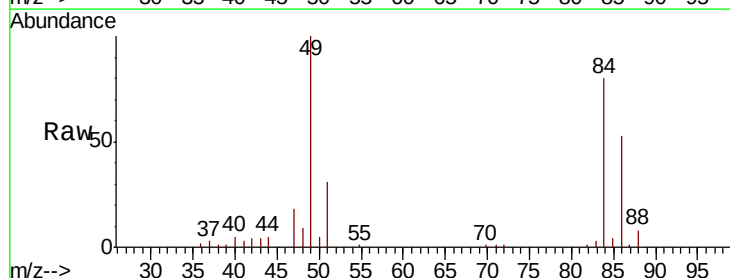
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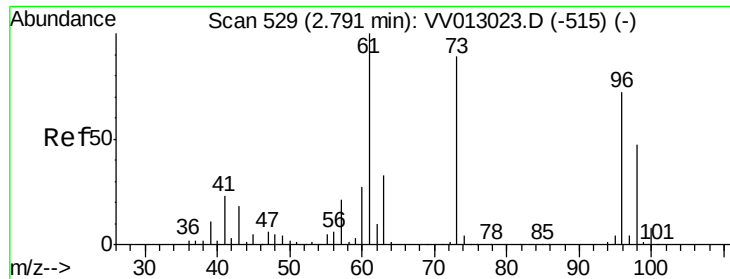
MMDadoda
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#16
Methylene chloride
Concen: 2.864 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Tgt Ion: 84 Resp: 28693
Ion Ratio Lower Upper
84 100
86 65.4 44.5 82.7
49 124.4 87.5 162.5





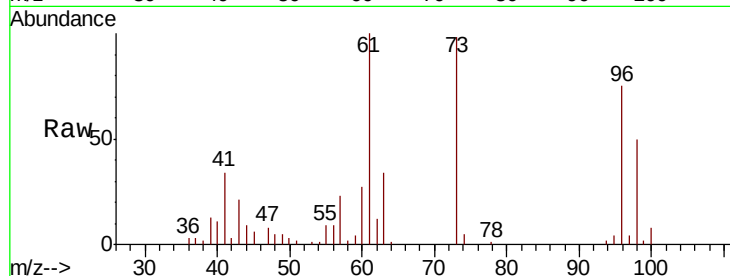
#17
trans-1,2-Dichloroethene
Concen: 2.058 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Instrument :
MSVOA_V
ClientSampleId :
MDL04

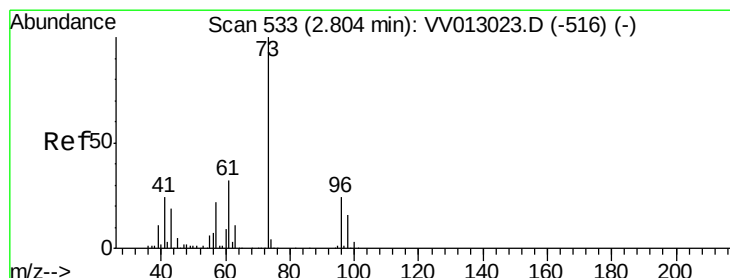
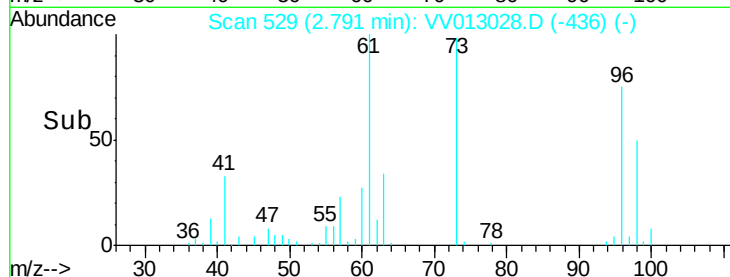
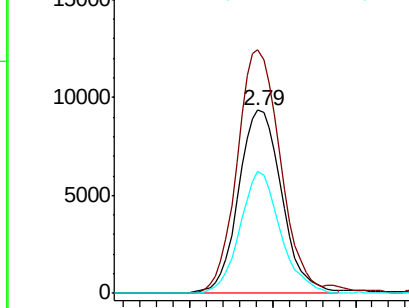
Tot Ion	Ratio	Lower	Upper
96	100		
61	132.9	95.8	177.8
98	66.9	45.1	83.7

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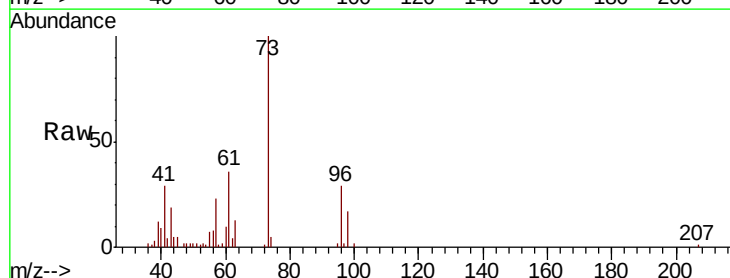


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

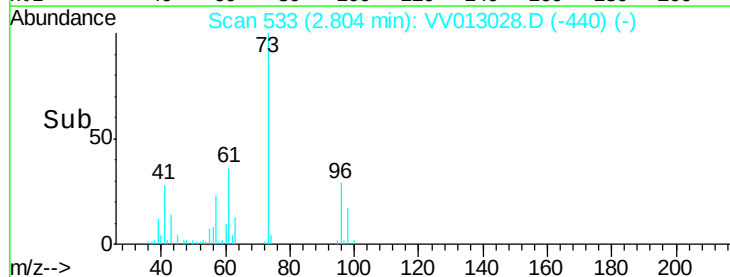
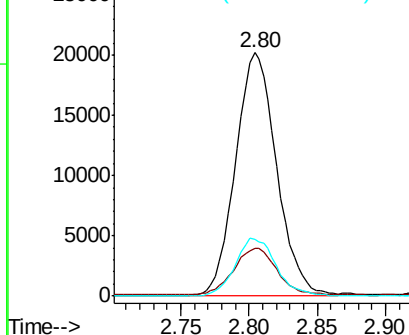


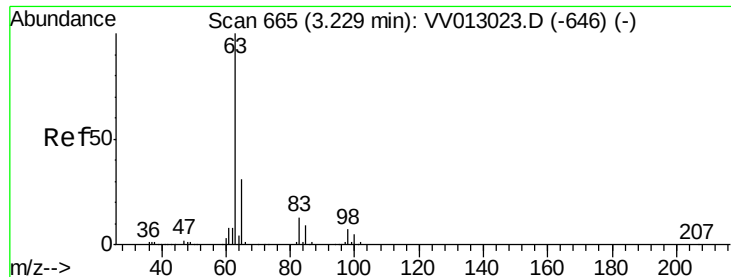
#18
Methyl tert-butyl Ether
Concen: 2.036 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.3	15.1	22.7
57	23.4	18.1	27.1



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





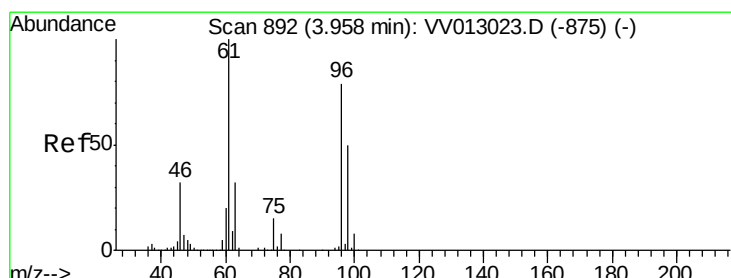
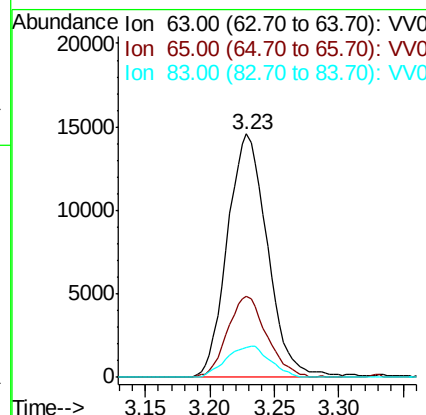
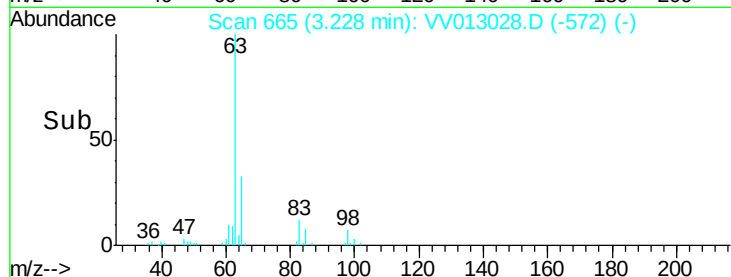
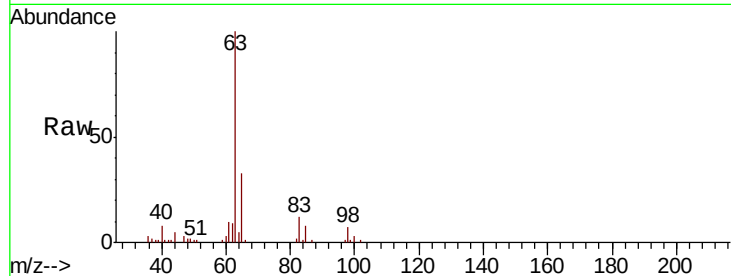
#19
 1,1-Dichloroethane
 Concen: 2.071 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion:	63	Resp:	31415
Ion Ratio	Lower	Upper	
63	100		
65	33.1	22.4	41.6
83	12.1	9.0	16.6

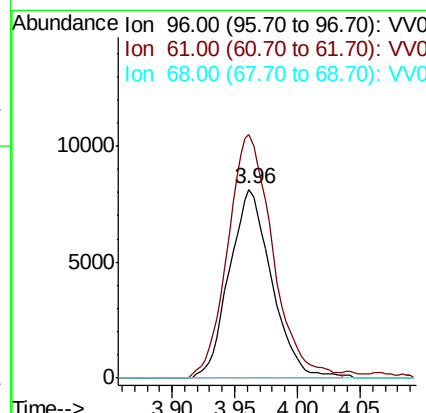
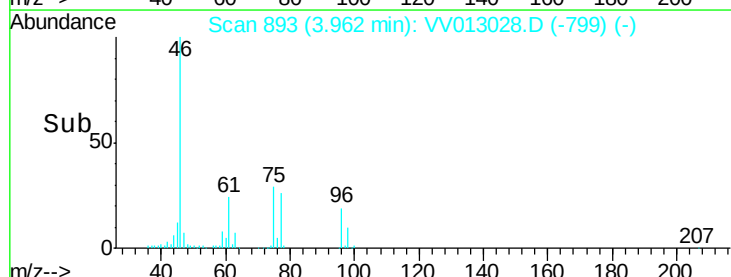
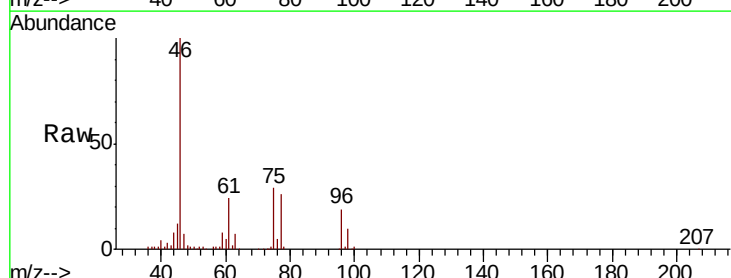
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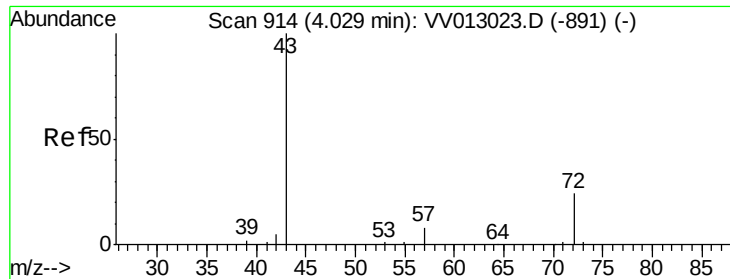
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#20
 cis-1,2-Dichloroethene
 Concen: 2.069 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Tgt Ion:	96	Resp:	19019
Ion Ratio	Lower	Upper	
96	100		
61	129.1	89.5	166.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.458 ug/L m

RT: 4.05 min Scan# 921

Delta R.T. 0.02 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 43 Resp: 12343

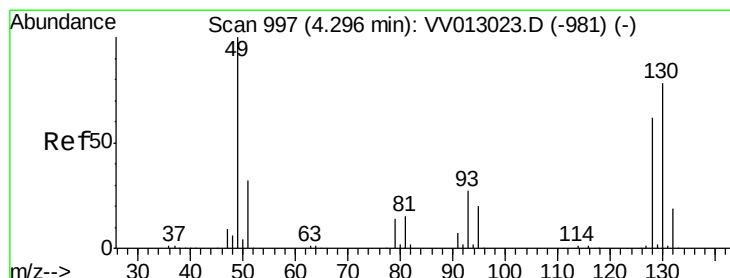
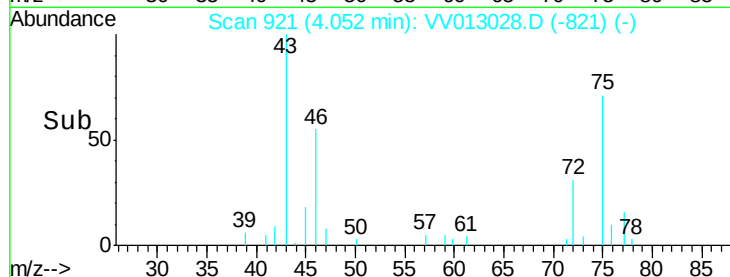
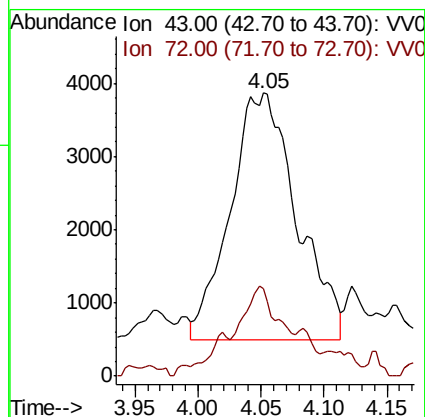
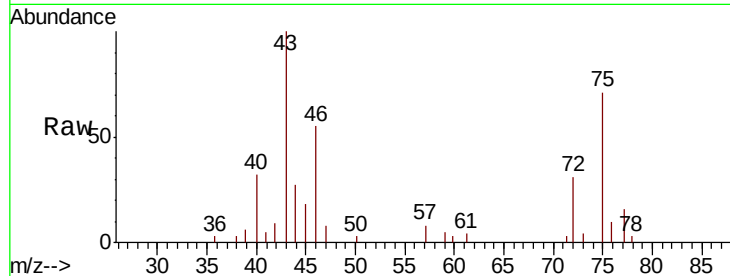
Ion Ratio Lower Upper

43 100

72 7.4 12.0 36.1#

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#23

Bromochloromethane

Concen: 2.098 ug/L m

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Tgt Ion: 128 Resp: 9451

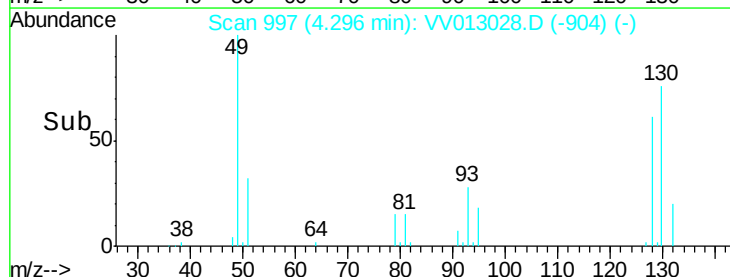
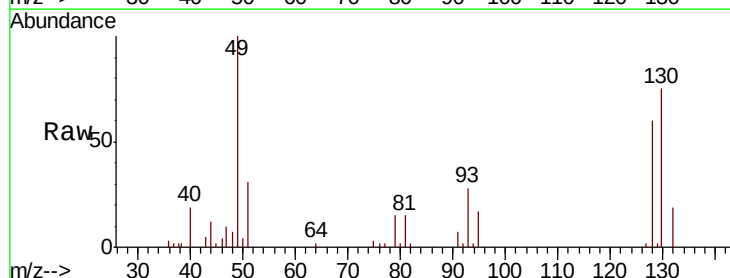
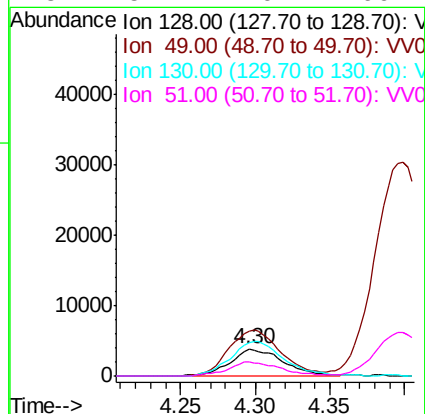
Ion Ratio Lower Upper

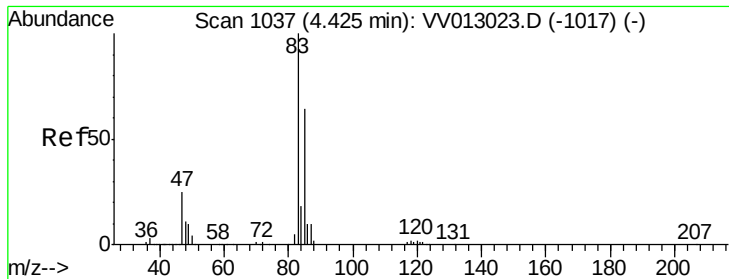
128 100

49 167.8 113.6 211.0

130 125.6 88.0 163.4

51 52.1 40.2 60.2





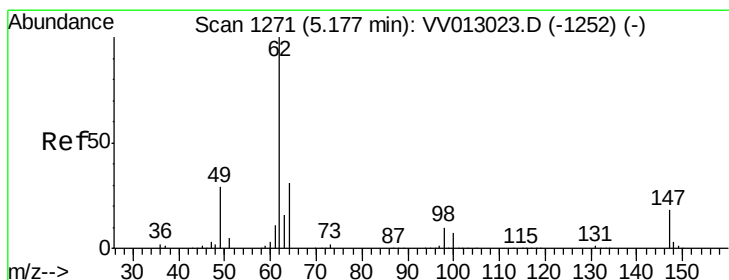
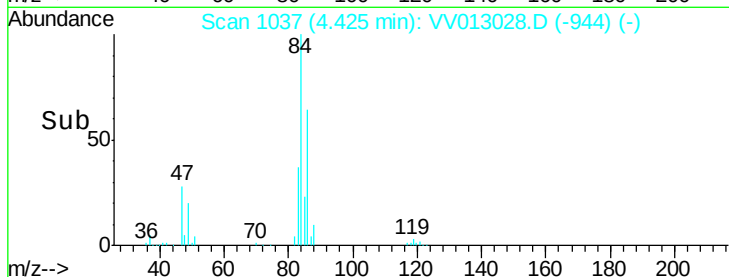
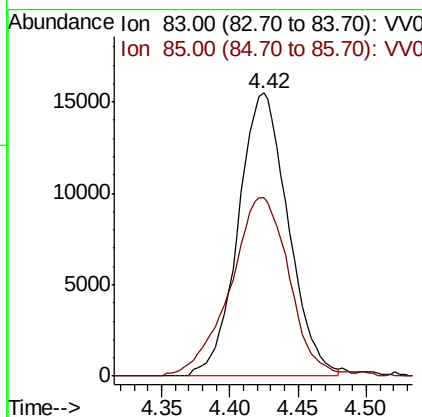
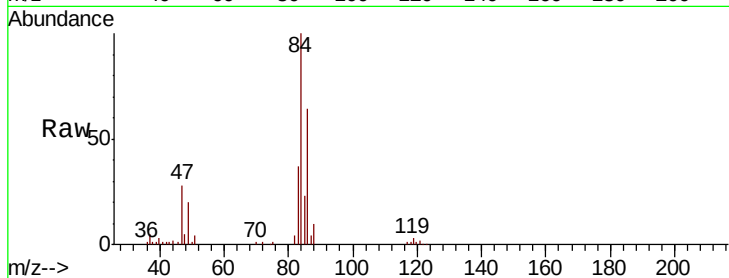
#25
Chloroform
Concen: 2.490 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	83	Resp	39368
Ion Ratio	100	Lower	Upper
85	62.9	44.7	82.9

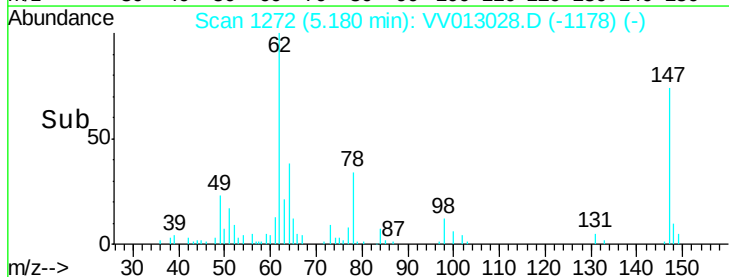
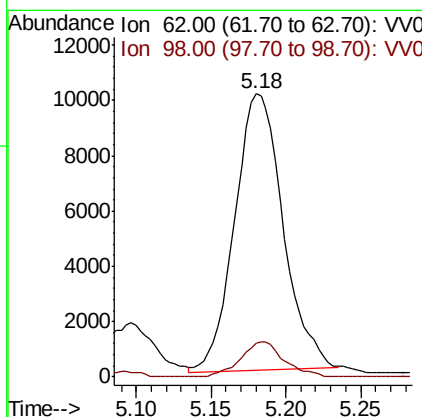
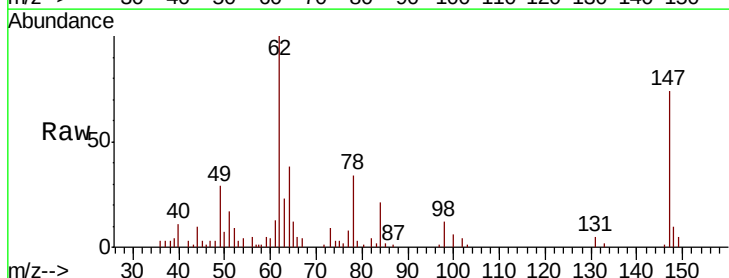
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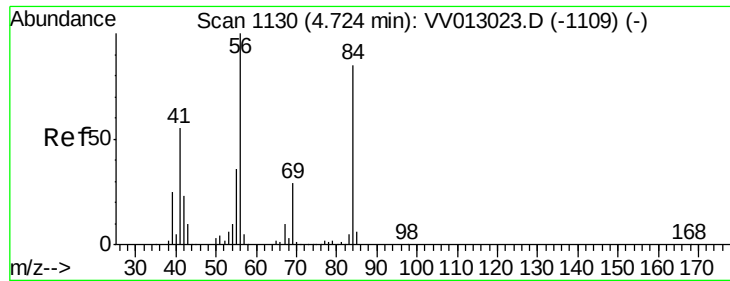
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.074 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Tgt Ion	62	Resp	22545
Ion Ratio	100	Lower	Upper
98	11.8	8.5	12.7





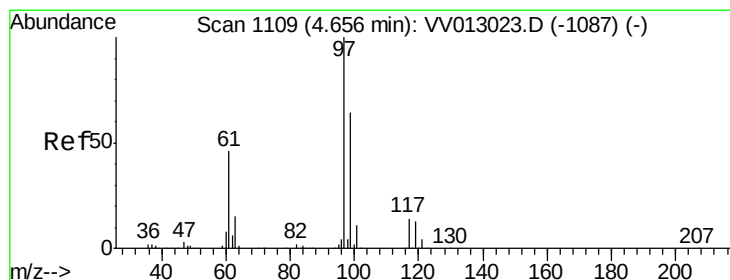
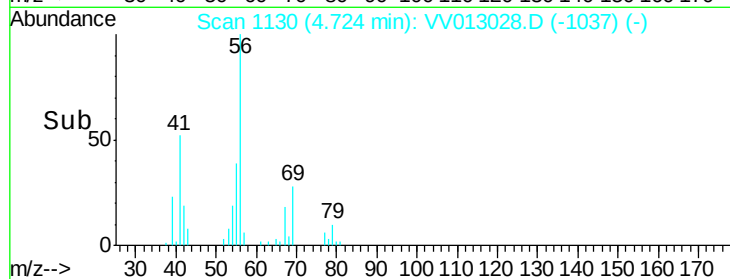
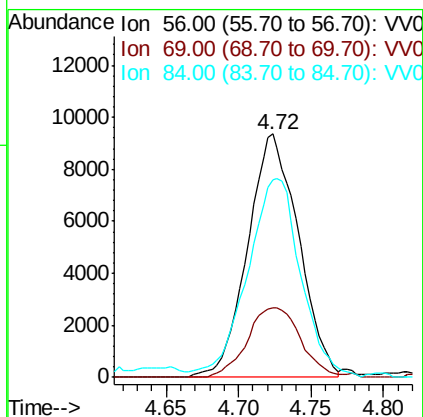
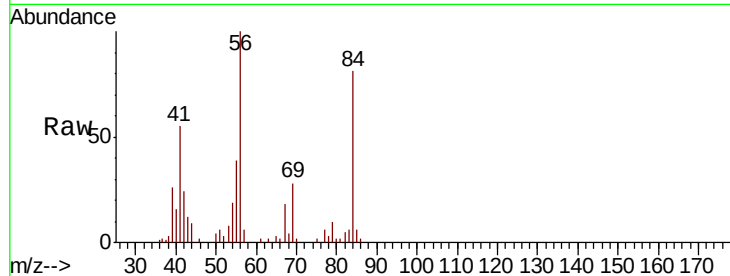
#29
Cyclohexane
Concen: 1.619 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.9	24.2	36.4
84	85.9	69.6	104.4

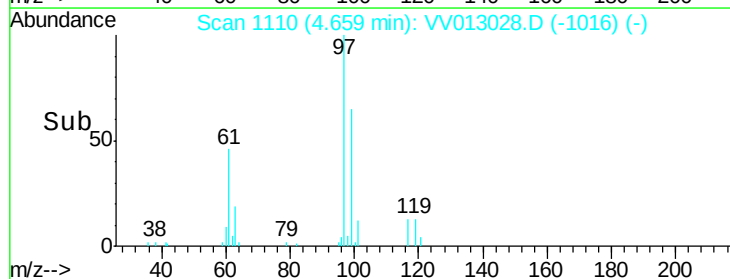
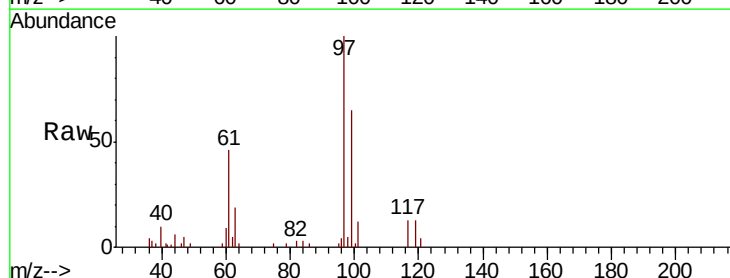
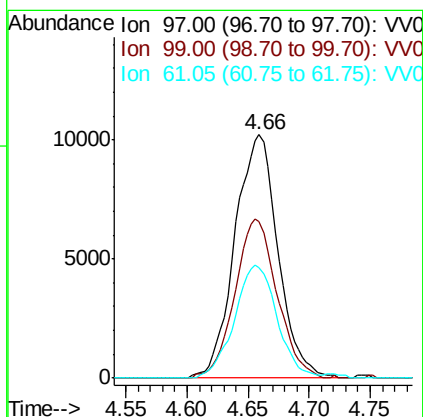
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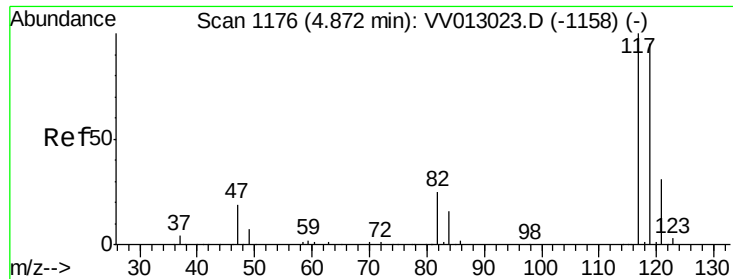
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#30
1,1,1-Trichloroethane
Concen: 1.910 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.7	77.5
61	45.8	36.1	54.1





#31

Carbon tetrachloride

Concen: 1.867 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion:117 Resp: 21976

Ion Ratio Lower Upper

117 100

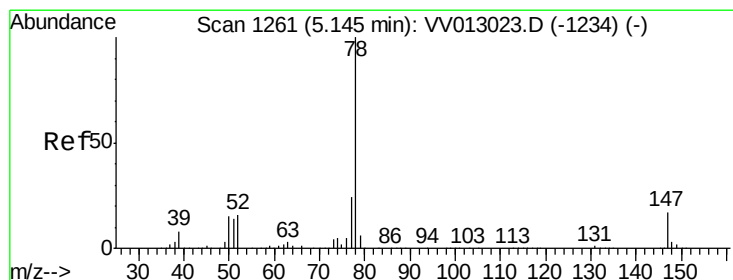
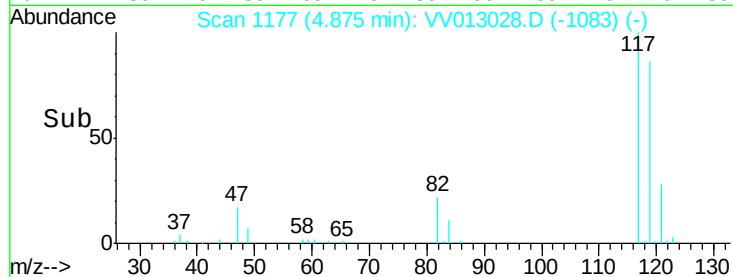
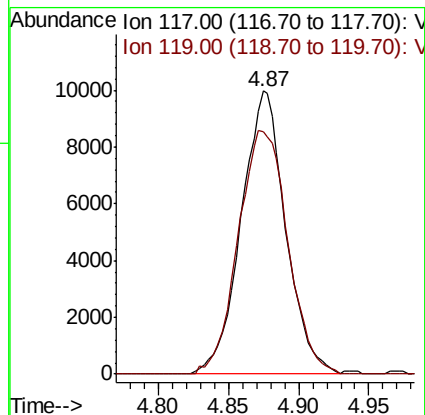
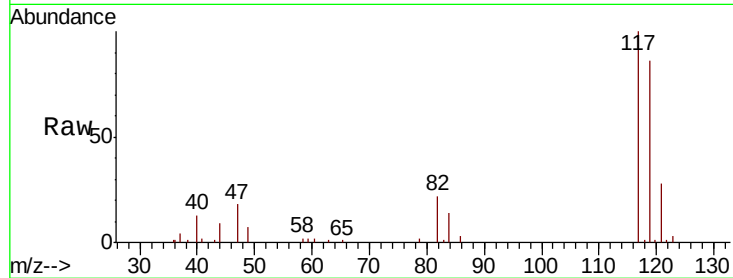
119 96.0 76.1 114.1

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#33

Benzene

Concen: 1.921 ug/L

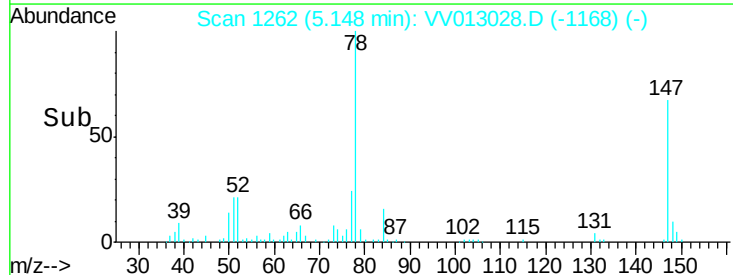
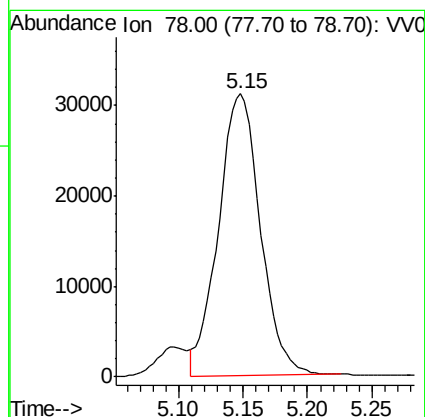
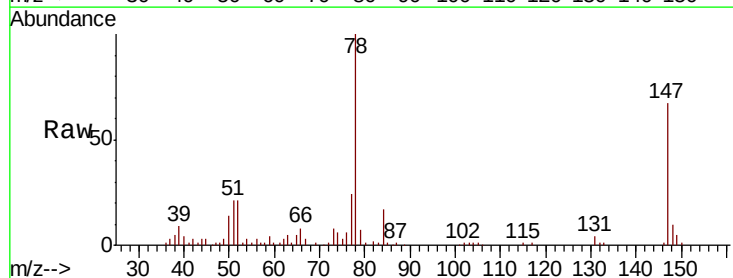
RT: 5.15 min Scan# 1262

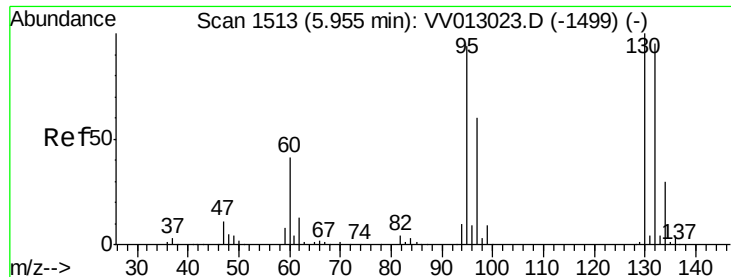
Delta R.T. 0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Tgt Ion: 78 Resp: 70274





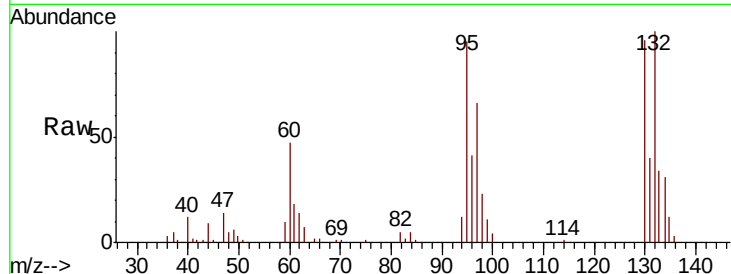
#34
 Trichloroethene
 Concen: 1.937 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Resp	Lower	Upper
95	100	19203		
97	69.7		45.4	84.2
132	105.0		70.1	130.3
130	100.8		72.4	134.4

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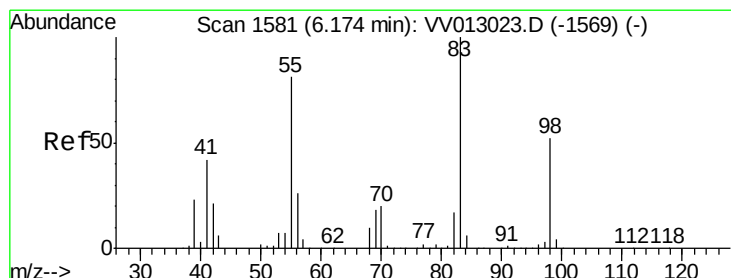
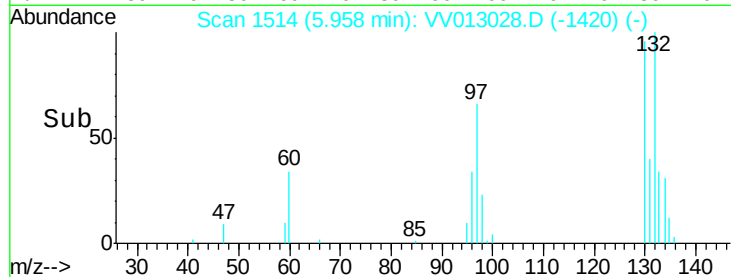
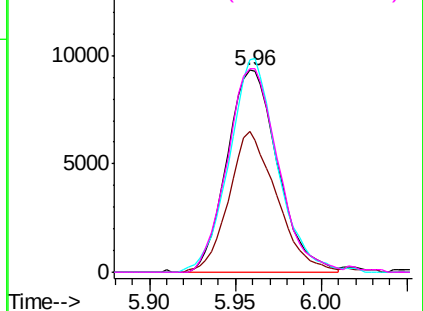
Abundance

Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35
 Methylcyclohexane
 Concen: 1.637 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

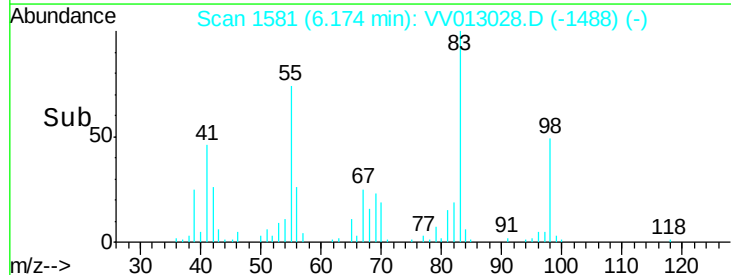
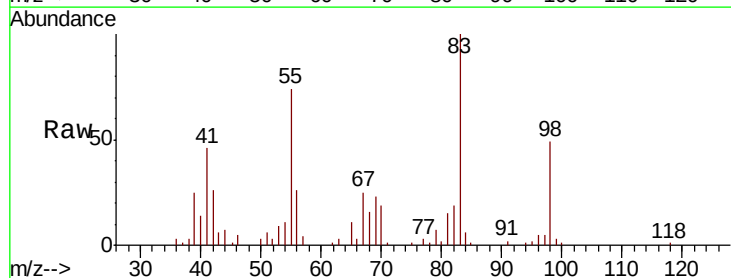
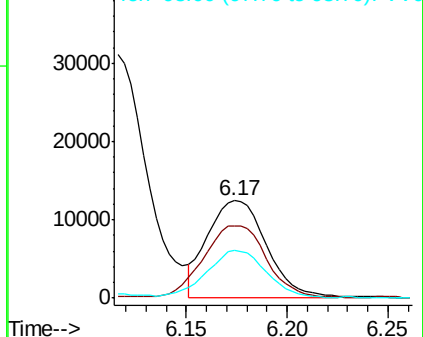
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	25475		
55	79.6		61.9	92.9
98	49.9		40.0	60.0

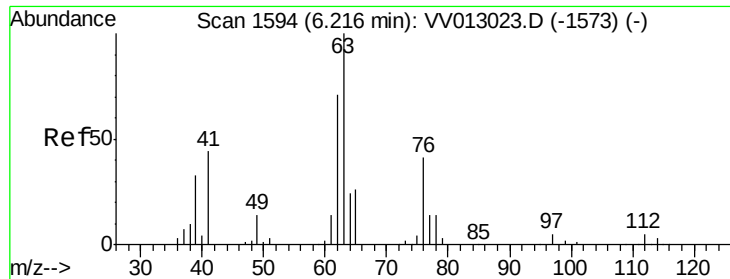
Abundance

Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





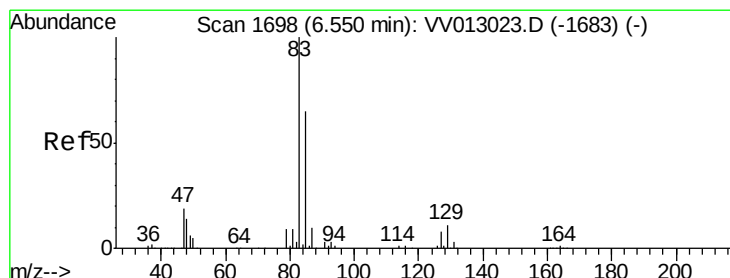
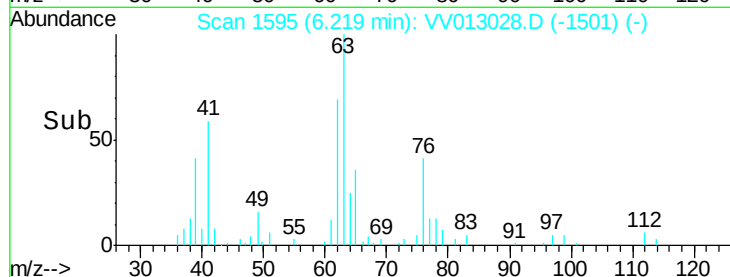
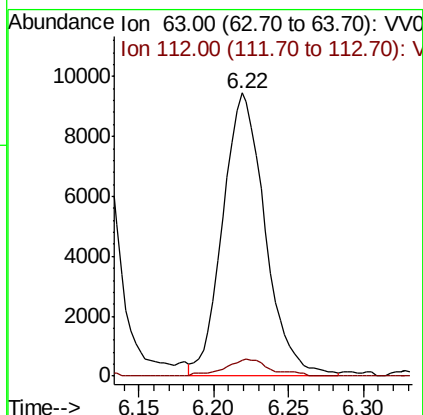
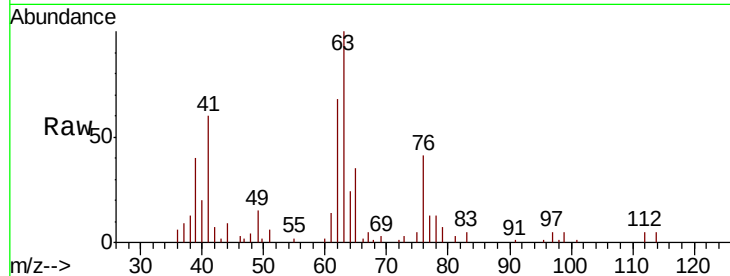
#37
 1,2-Dichloropropane
 Concen: 1.990 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tot Ion: 63 Resp: 18687
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.8 5.8

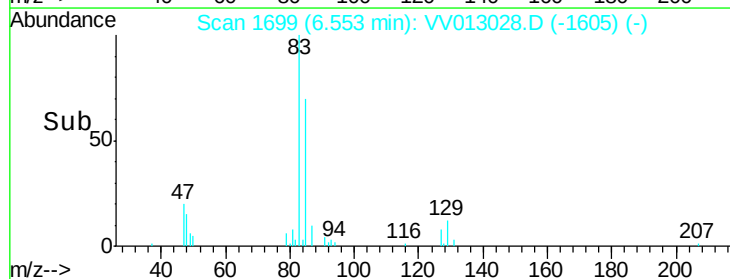
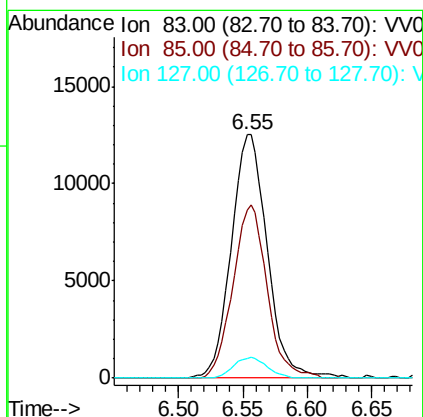
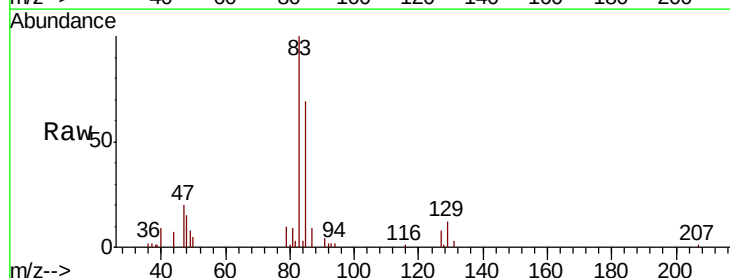
Manual Integrations
 APPROVED

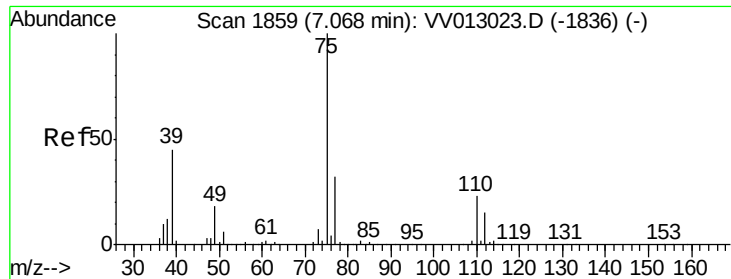
MMDadoda
 10/9/2019 3:10:46 PM



#38
 Bromodichloromethane
 Concen: 1.986 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Tgt Ion: 83 Resp: 24334
 Ion Ratio Lower Upper
 83 100
 85 69.0 43.9 81.5
 127 8.0 7.0 10.6





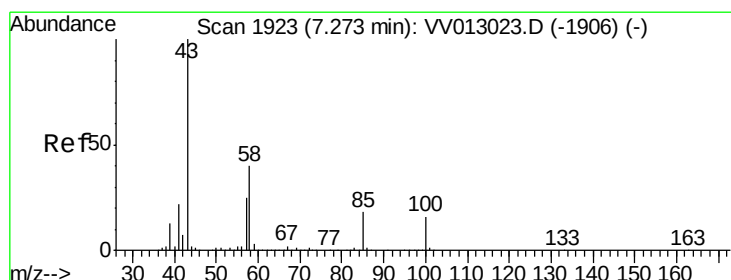
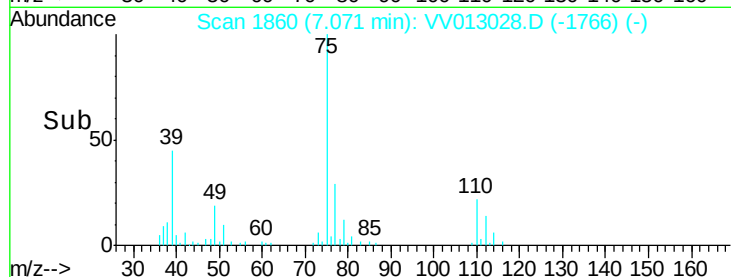
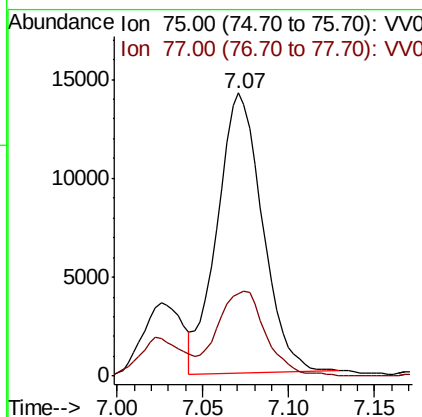
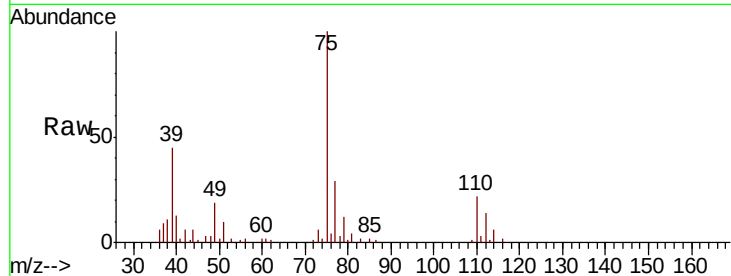
#39
 cis-1,3-Dichloropropene
 Concen: 1.830 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.3	21.8	40.4

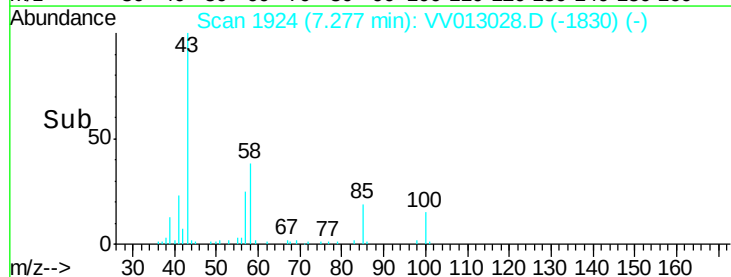
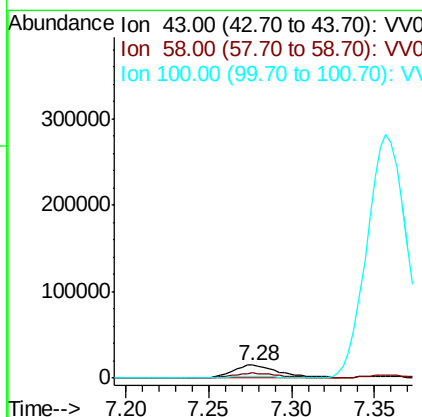
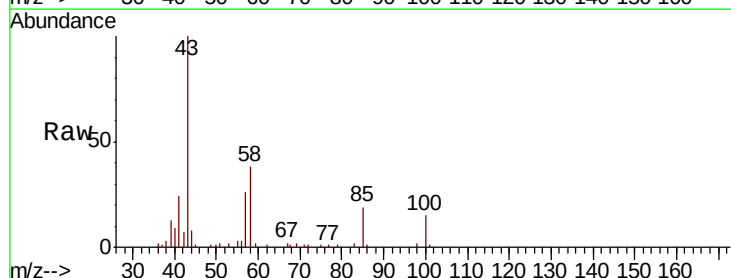
Manual Integrations
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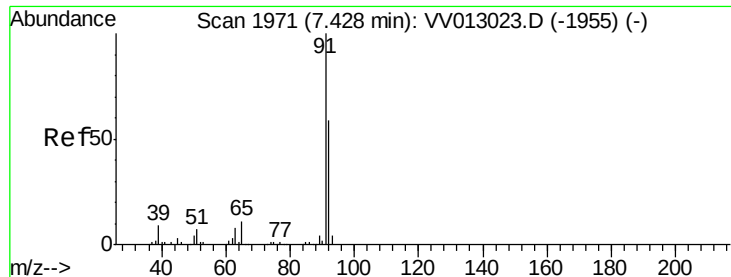
MMDadoda
 10/9/2019 3:10:46 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.011 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.2	31.8	47.8
100	14.2	12.8	19.2





#42

Toluene

Concen: 2.003 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

ClientSampleId :

MDL04

Tot Ion: 91 Resp: 77947

Ion Ratio Lower Upper

91 100

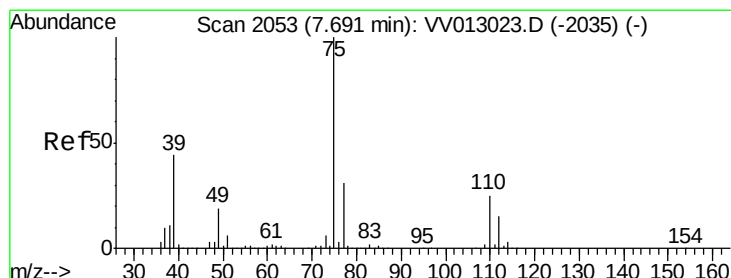
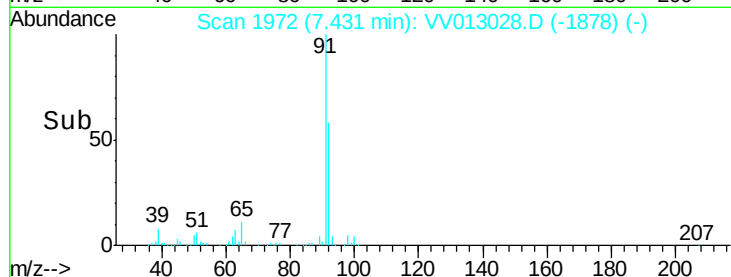
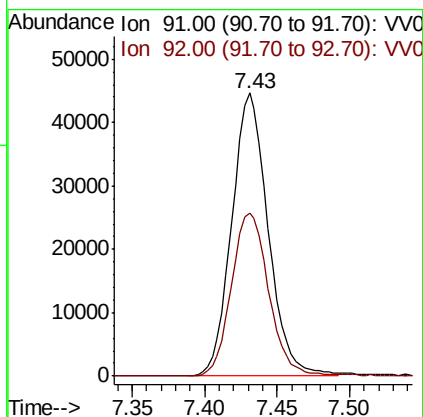
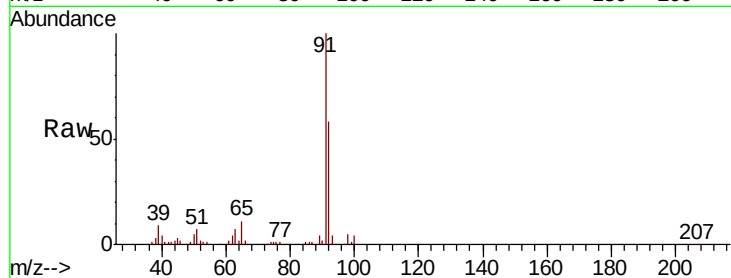
92 57.7 41.1 76.3

Manual Integrations

APPROVED

MMDadoda

10/9/2019 3:10:46 PM



#44

trans-1,3-Dichloropropene

Concen: 1.919 ug/L m

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV013028.D

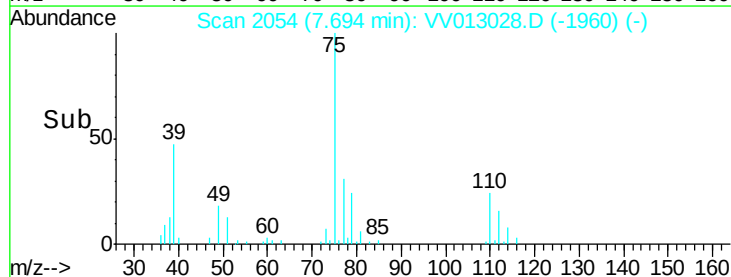
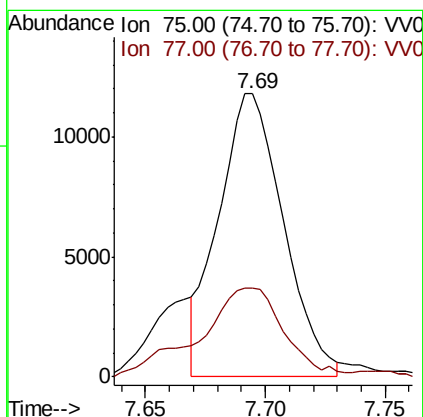
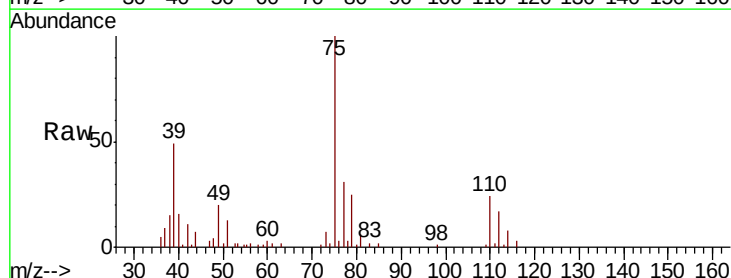
Acq: 02 Oct 2019 12:17

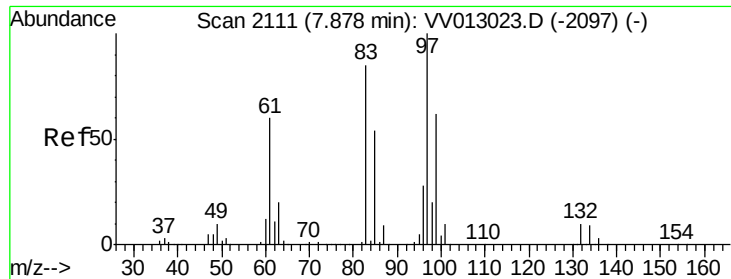
Tgt Ion: 75 Resp: 22281

Ion Ratio Lower Upper

75 100

77 31.2 22.1 41.1





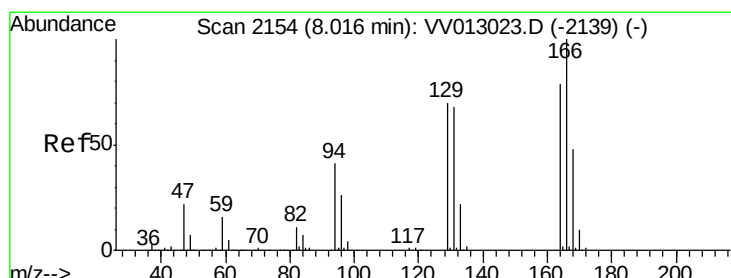
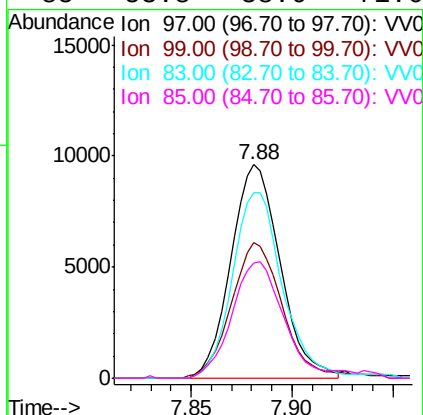
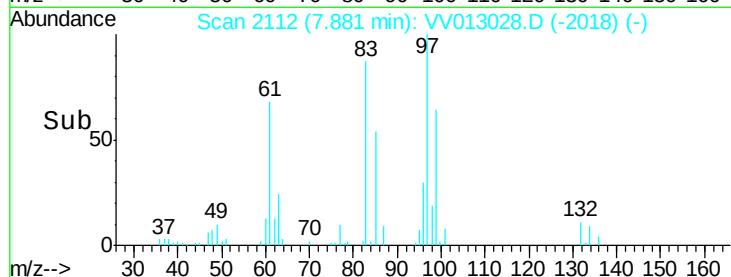
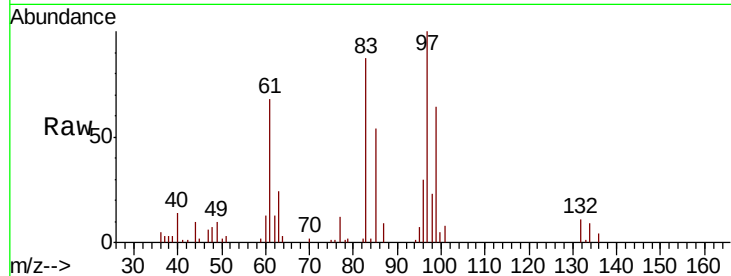
#45
 1,1,2-Trichloroethane
 Concen: 2.067 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Instrument :
 MSVOA_V
 ClientSampled :
 MDL04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		16466		
99	63.7	44.2	82.2		
83	86.9	59.7	110.9		
85	53.8	38.6	71.6		

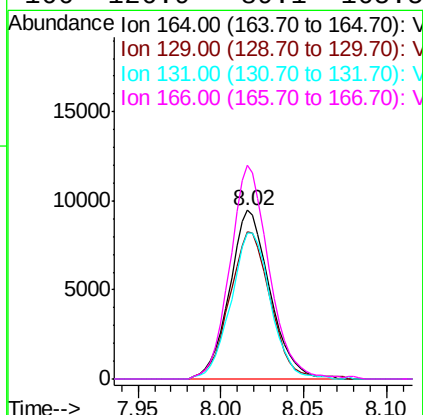
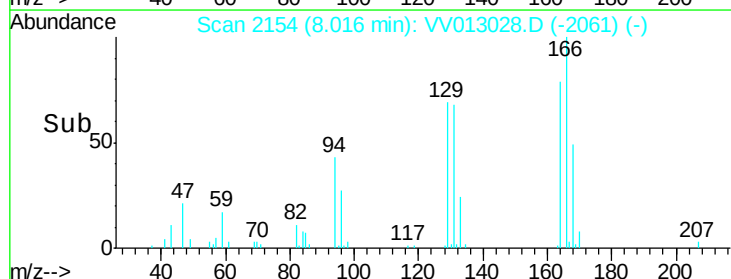
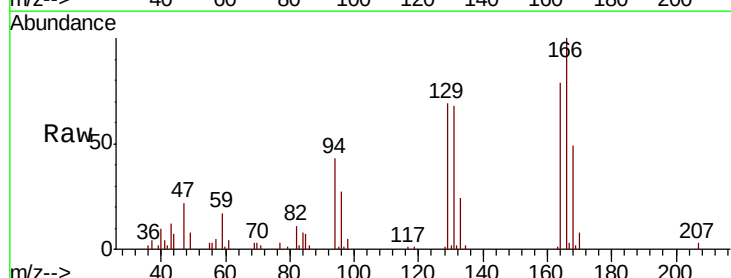
Manual Integrations
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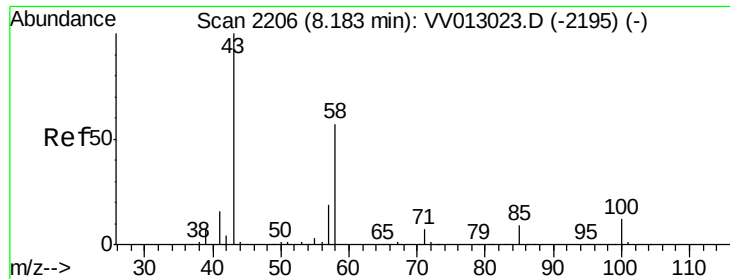
MMDadoda
 10/9/2019 3:10:46 PM



#46
 Tetrachloroethene
 Concen: 1.960 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
164	100		16077		
129	87.1	61.2	113.6		
131	86.4	59.9	111.3		
166	126.9	89.1	165.5		





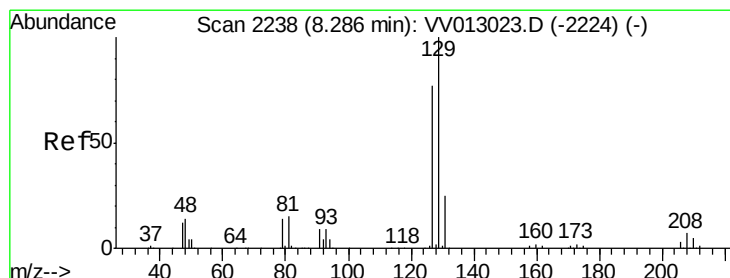
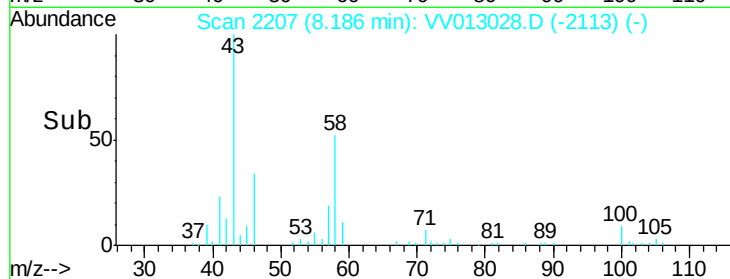
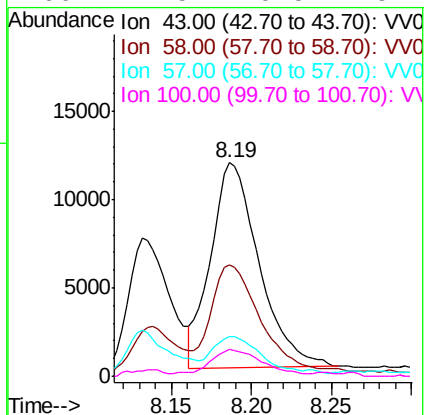
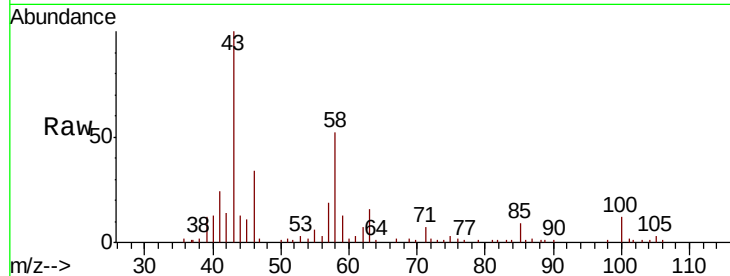
#48
2-Hexanone
Concen: 4.424 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Instrument :
MSVOA_V
ClientSampled :
MDL04

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	54.0	44.9	67.3	
57	20.1	15.2	22.8	
100	14.5	10.5	15.7	

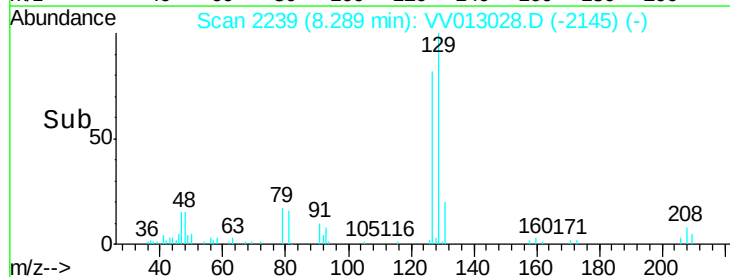
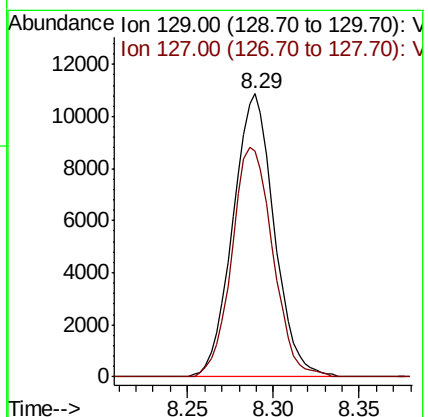
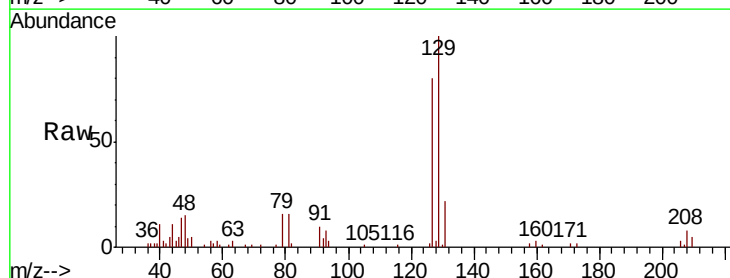
Manual Integrations
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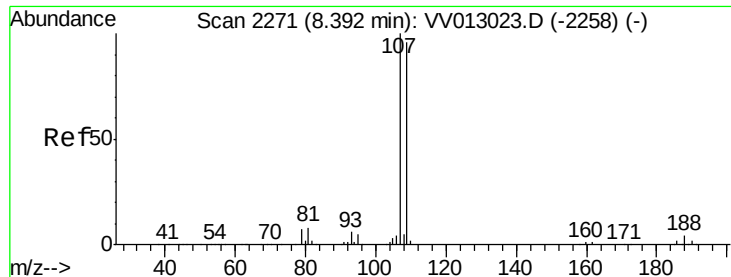
MMDadoda
10/9/2019 3:10:46 PM



#49
Dibromochloromethane
Concen: 2.005 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.9	53.9	100.1	





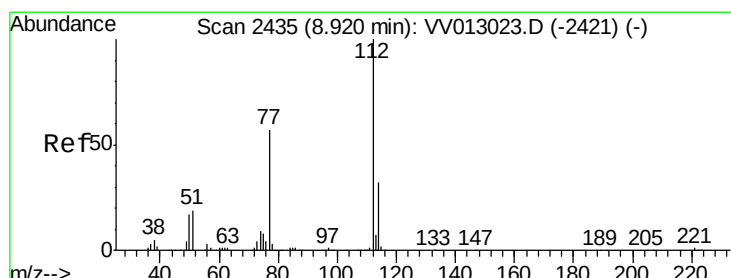
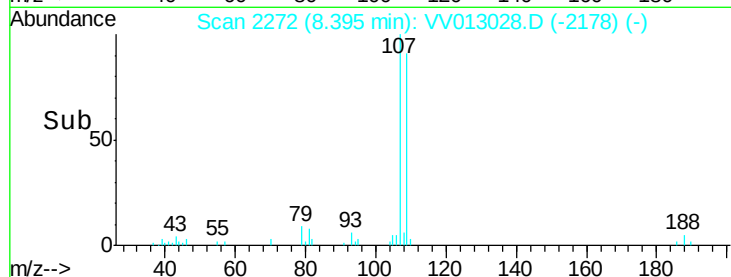
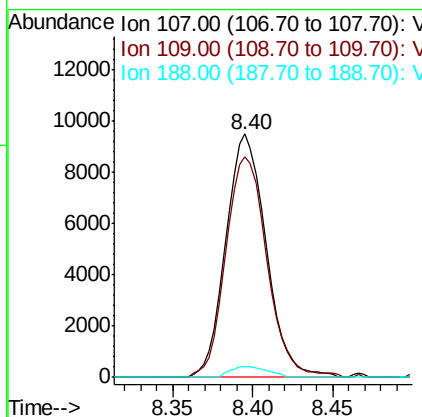
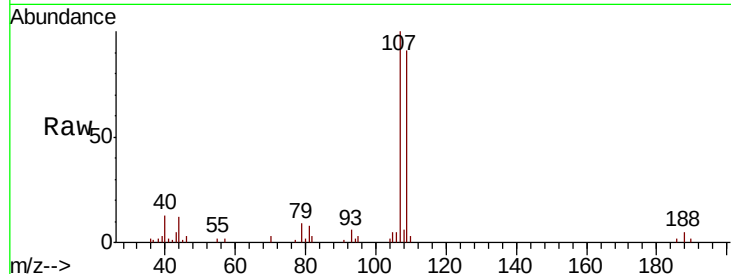
#50
1,2-Dibromoethane
Concen: 2.080 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.8	64.7	120.1
188	4.6	3.7	5.5

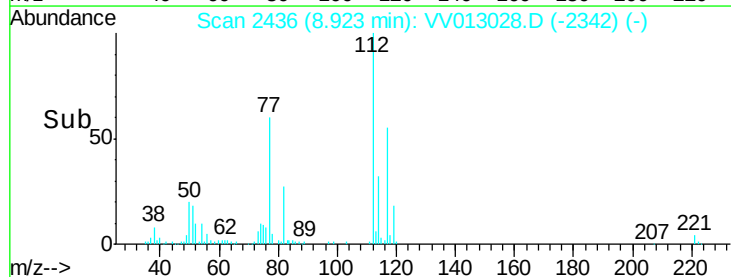
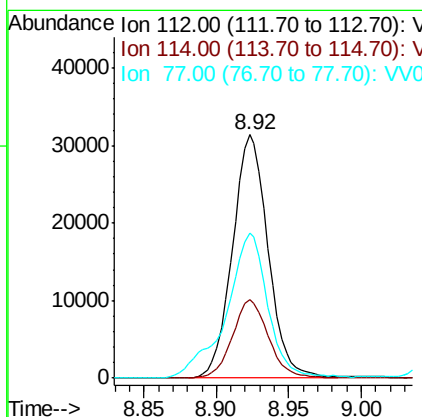
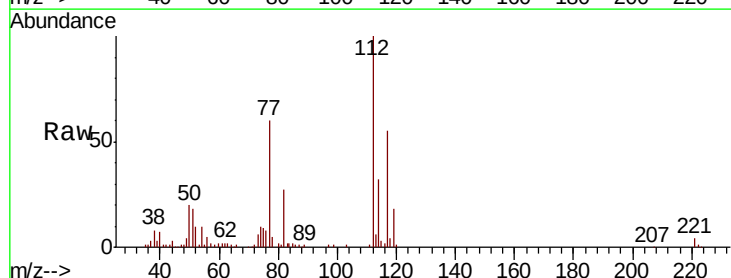
Manual Integrations
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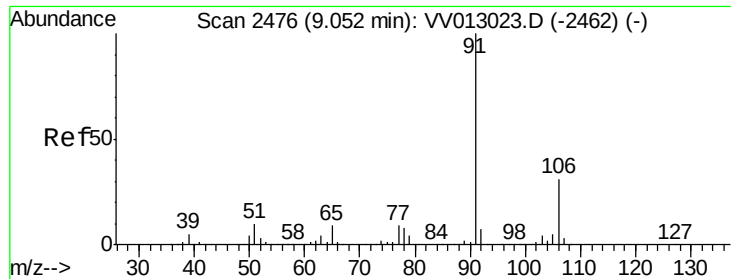
MMDadoda
10/9/2019 3:10:46 PM



#51
Chlorobenzene
Concen: 2.028 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.7	42.1
77	59.6	45.9	68.9





#52

Ethylbenzene

Concen: 1.762 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion: 91 Resp: 75323

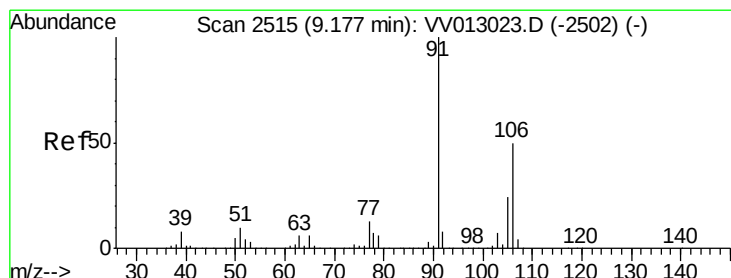
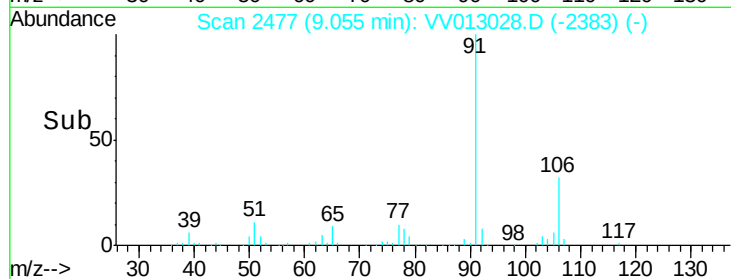
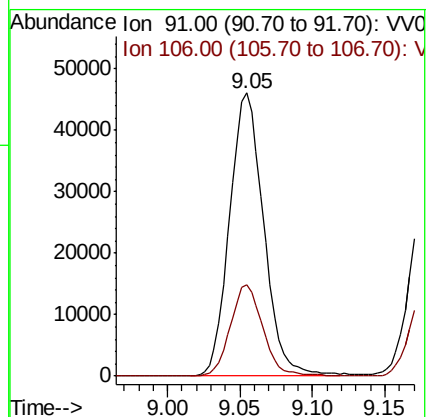
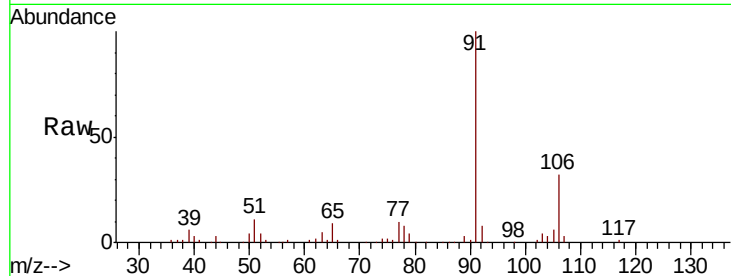
Ion Ratio Lower Upper

91 100

106 32.2 21.8 40.4

Manual Integrations
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10/9/2019 3:10:46 PM



#53

m,p-Xylene

Concen: 1.668 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013028.D

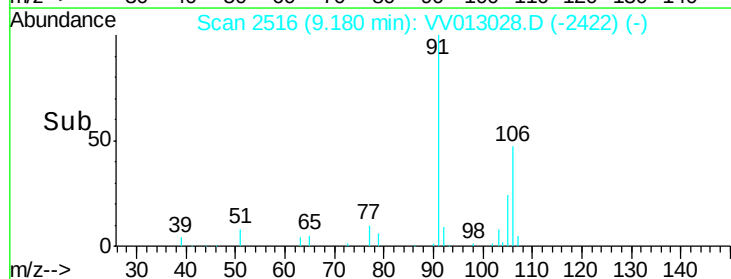
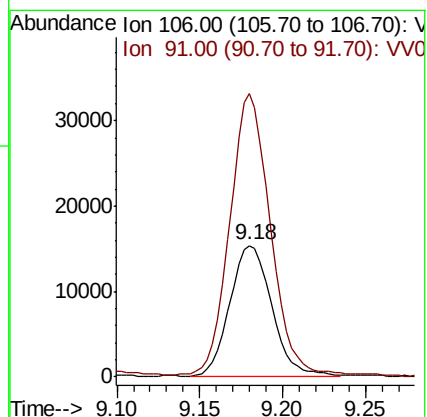
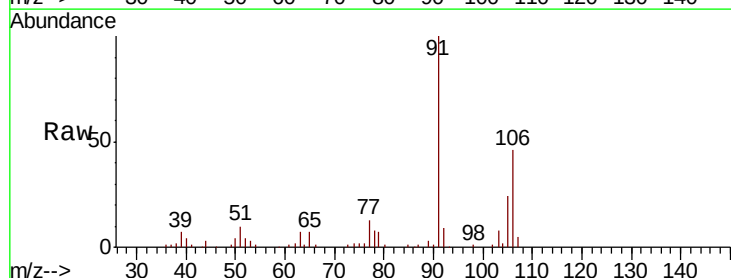
Acq: 02 Oct 2019 12:17

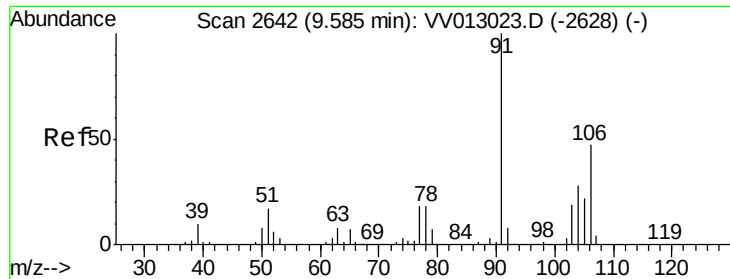
Tgt Ion: 106 Resp: 27264

Ion Ratio Lower Upper

106 100

91 215.2 138.0 256.2





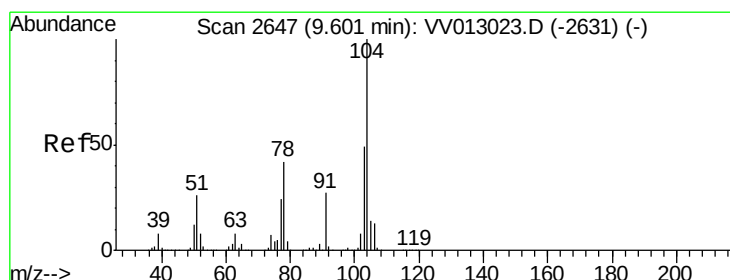
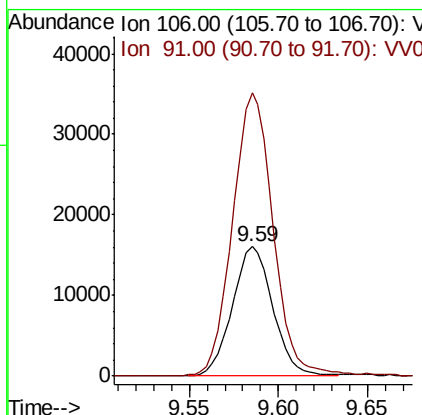
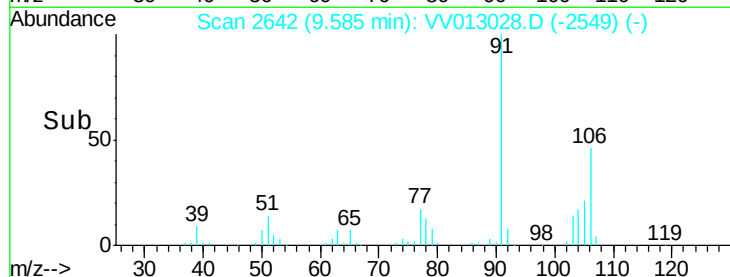
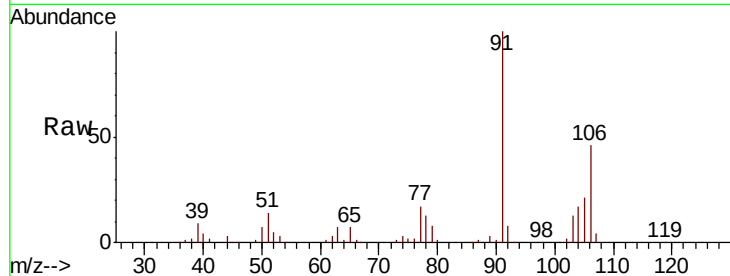
#54
o-Xylene
Concen: 1.631 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion:106 Resp: 25494
Ion Ratio Lower Upper
106 100
91 218.9 150.8 280.1

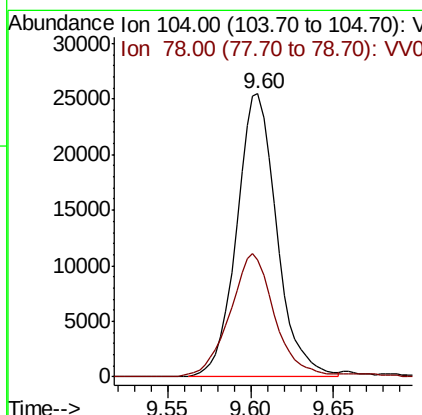
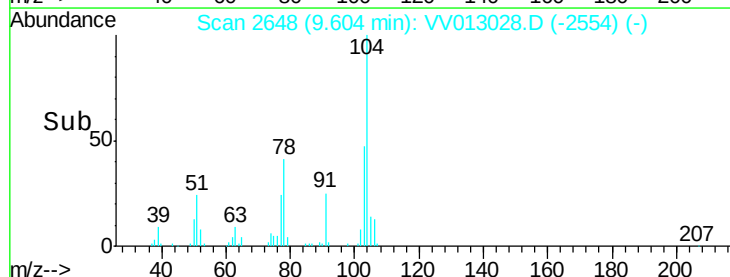
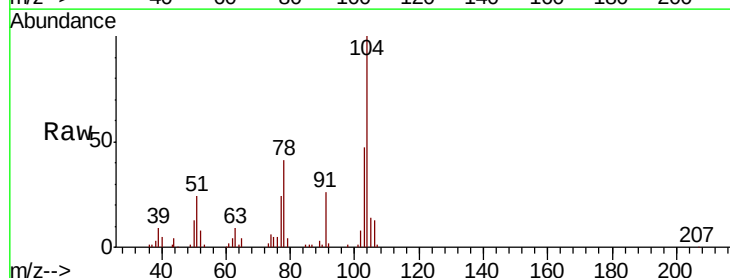
Manual Integrations
APPROVED

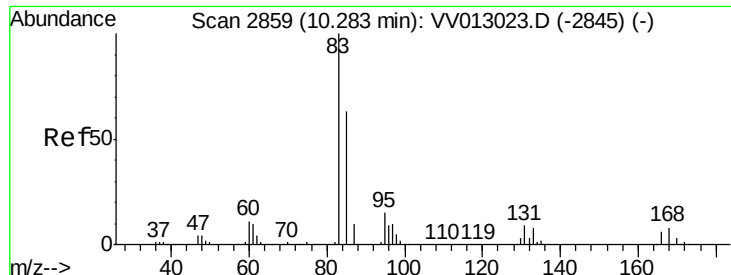
MMDadoda
10/9/2019 3:10:46 PM



#55
Styrene
Concen: 1.570 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Tgt Ion:104 Resp: 42981
Ion Ratio Lower Upper
104 100
78 41.3 29.8 55.3





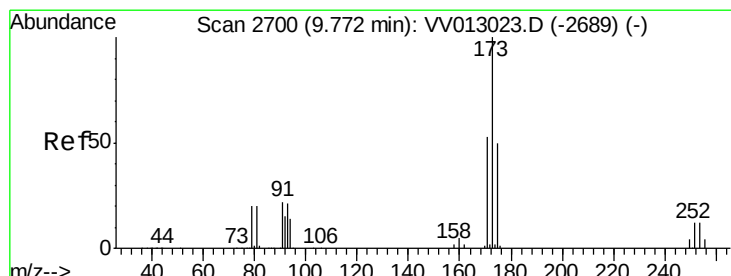
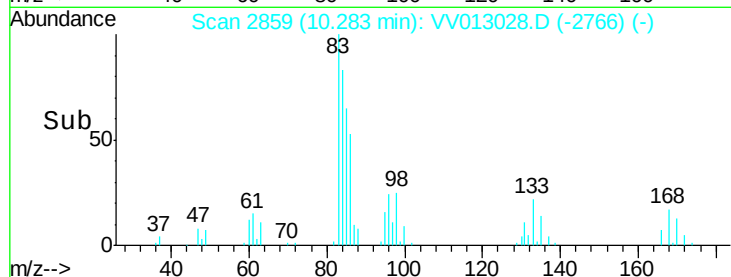
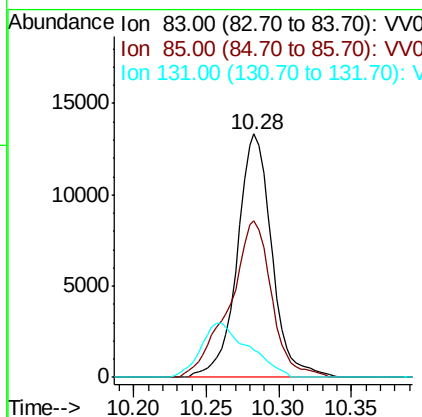
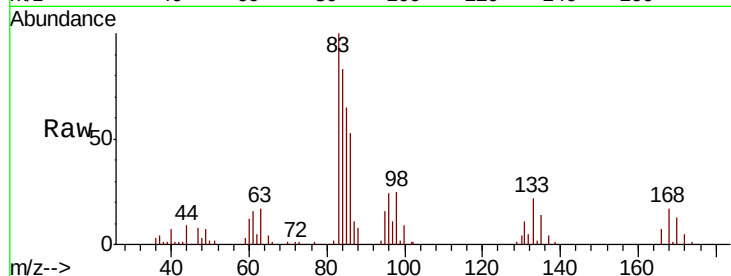
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.272 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. -0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	83	Resp	22067
Ion Ratio	100	Lower	Upper
83	100		
85	64.5	44.5	82.7
131	11.5	8.2	12.2

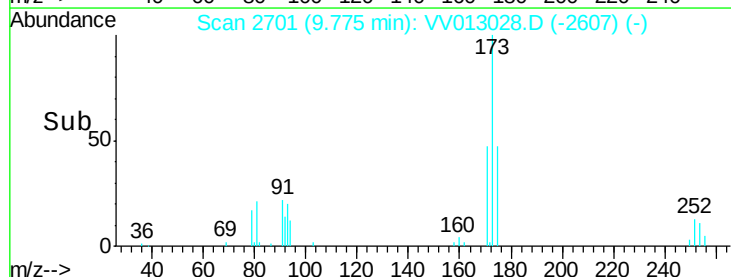
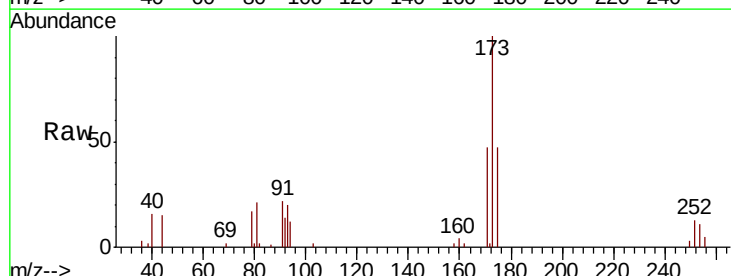
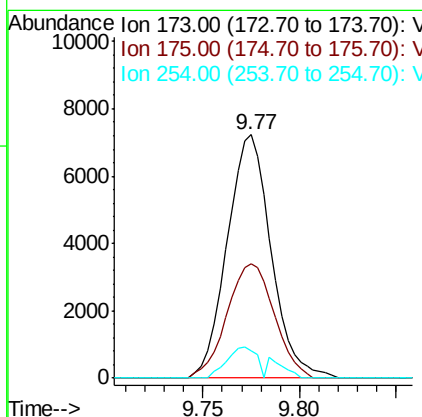
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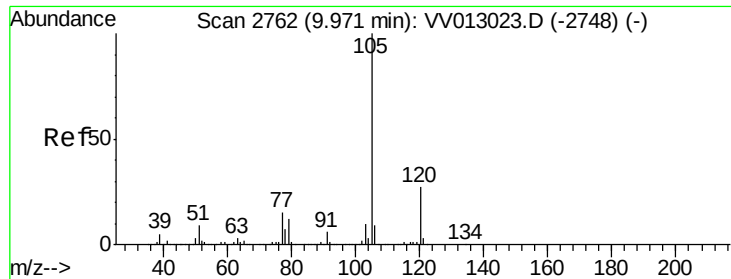
MMDadoda
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#59
 Bromoform
 Concen: 2.027 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Tgt Ion	173	Resp	11416
Ion Ratio	100	Lower	Upper
173	100		
175	50.6	38.9	58.3
254	8.3	9.4	14.0





#60

Isopropylbenzene

Concen: 1.637 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

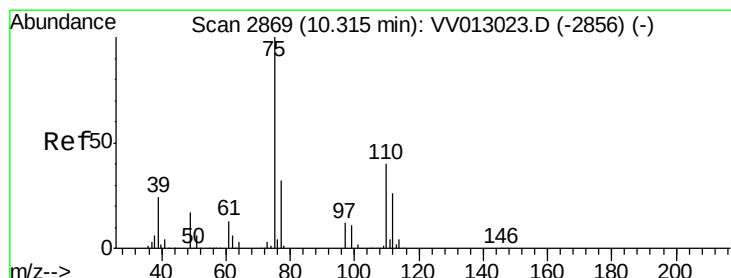
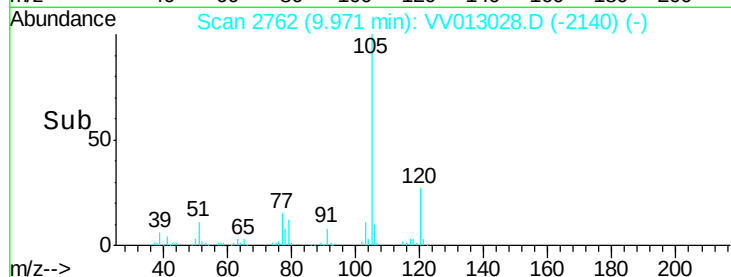
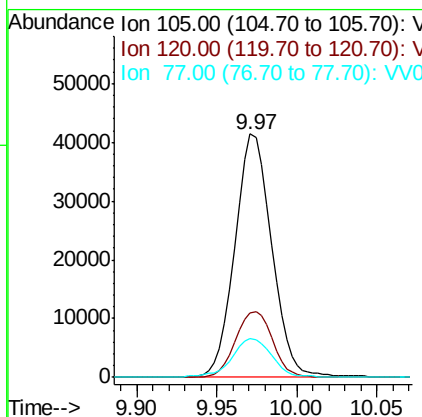
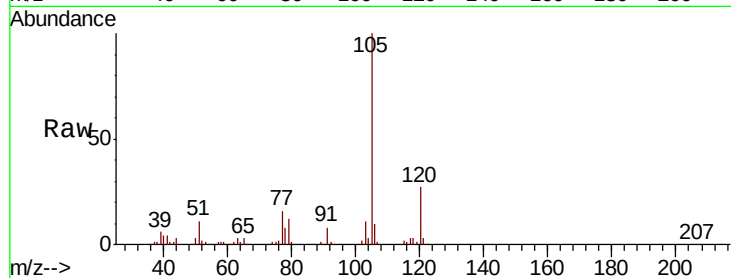
ClientSampleId :

MDL04

Tot Ion:	105	Resp:	64877
Ion Ratio	Lower	Upper	
105	100		
120	27.2	21.1	31.7
77	17.4	12.3	18.5

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#61

1,2,3-Trichloropropane

Concen: 2.281 ug/L

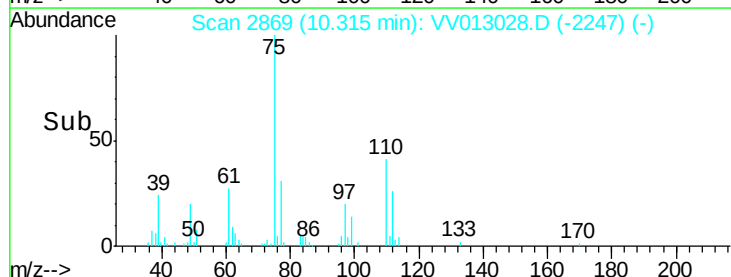
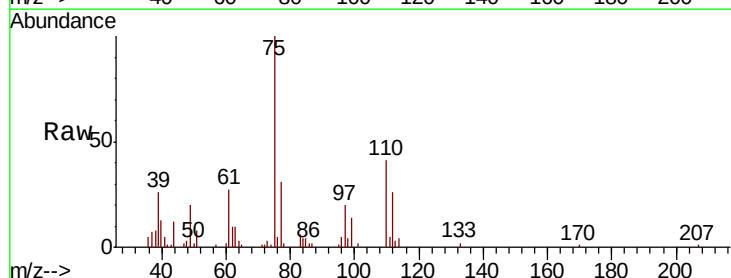
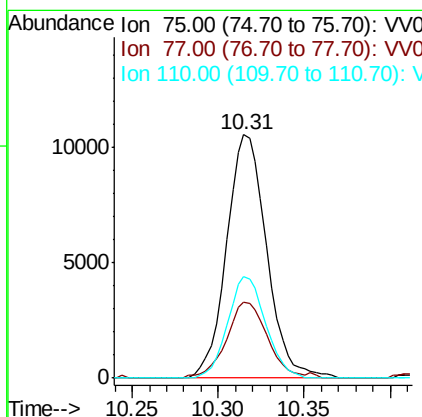
RT: 10.31 min Scan# 2869

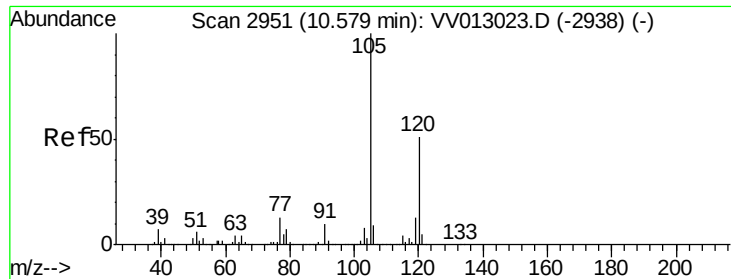
Delta R.T. -0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Tgt Ion:	75	Resp:	17076
Ion Ratio	Lower	Upper	
75	100		
77	31.8	25.4	38.2
110	39.3	31.7	47.5





#62

1,3,5-Trimethylbenzene

Concen: 1.579 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. 0.00 min

Lab File: VV013028.D

Acq: 02 Oct 2019 12:17

Instrument :

MSVOA_V

ClientSampled :

MDL04

Tot Ion:105 Resp: 50435

Ion Ratio Lower Upper

105 100

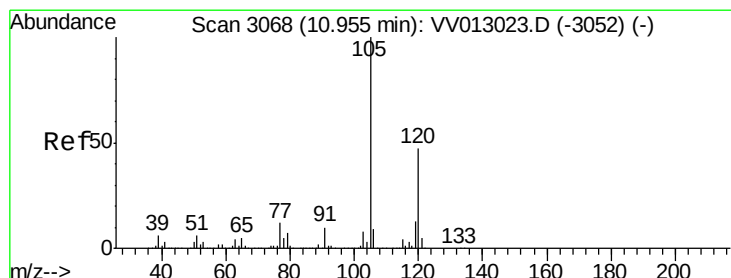
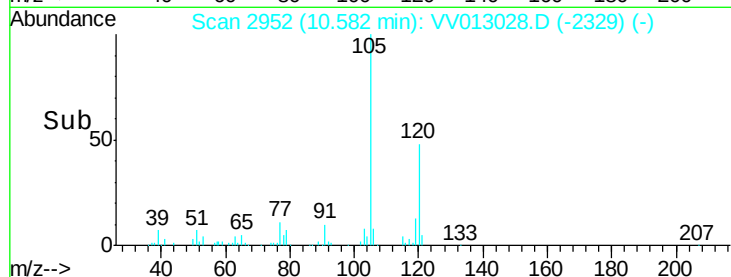
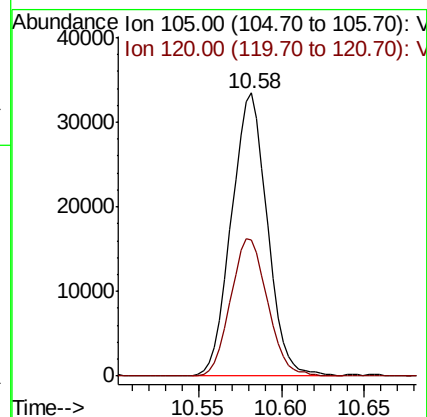
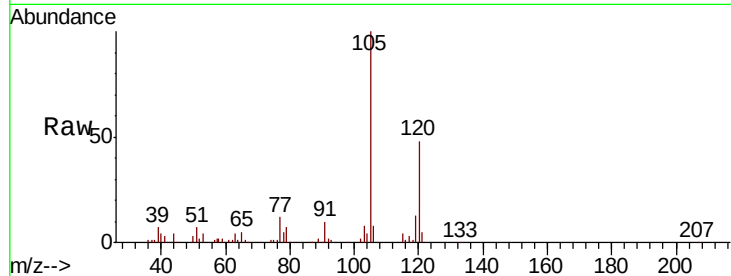
120 49.6 40.6 61.0

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#63

1,2,4-Trimethylbenzene

Concen: 1.555 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VV013028.D

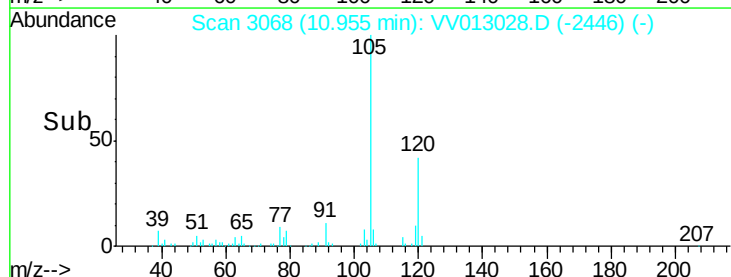
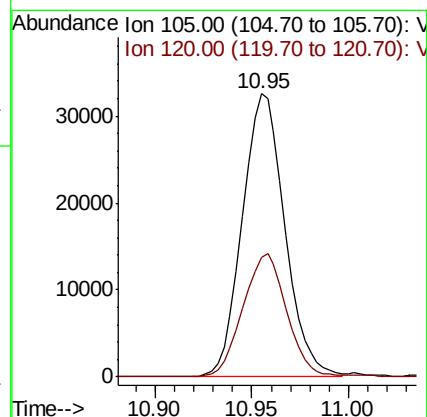
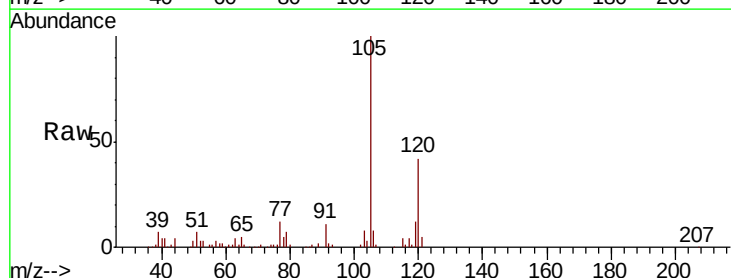
Acq: 02 Oct 2019 12:17

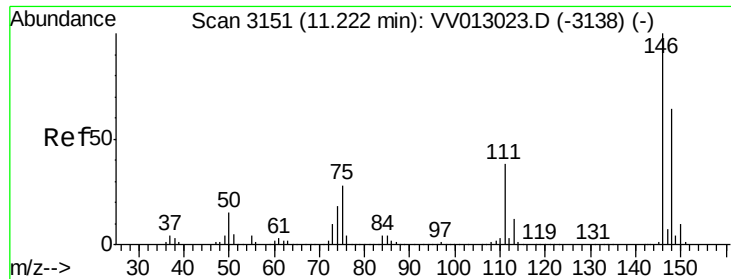
Tgt Ion:105 Resp: 49854

Ion Ratio Lower Upper

105 100

120 44.7 37.1 55.7





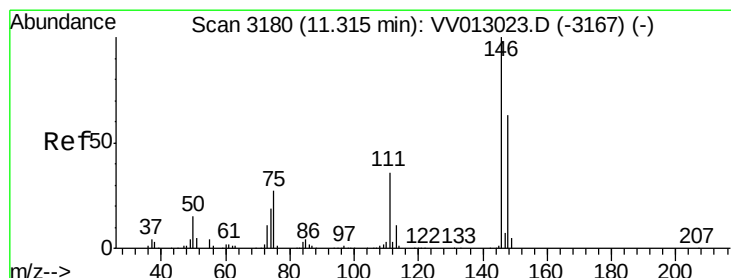
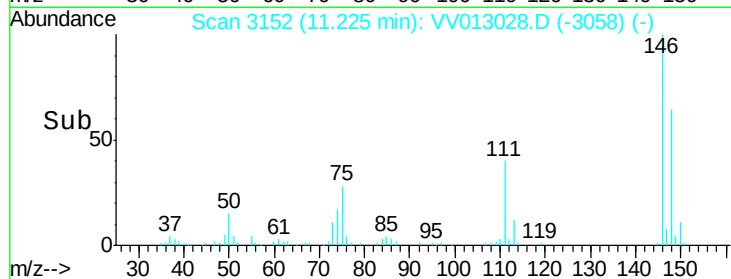
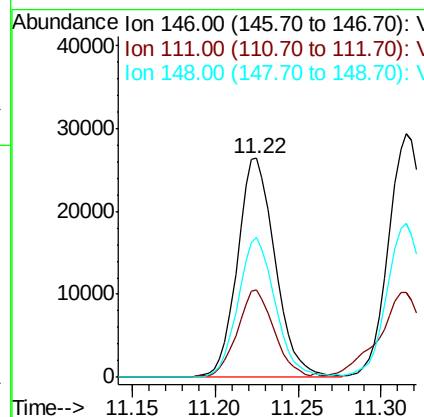
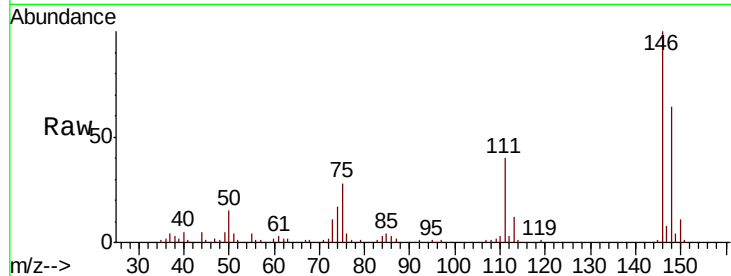
#64
 1,3-Dichlorobenzene
 Concen: 2.010 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.1	27.0	50.2
148	63.8	44.7	83.1

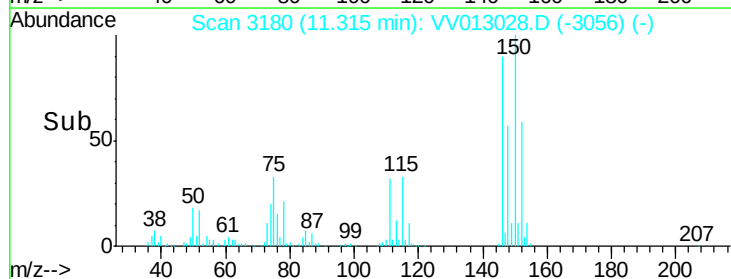
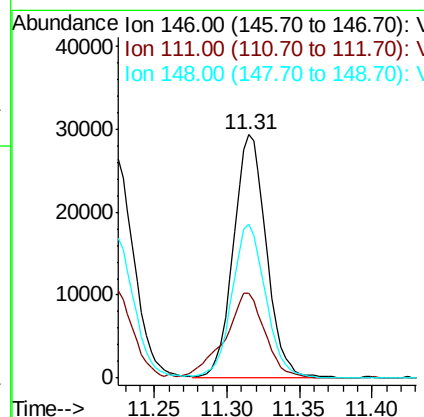
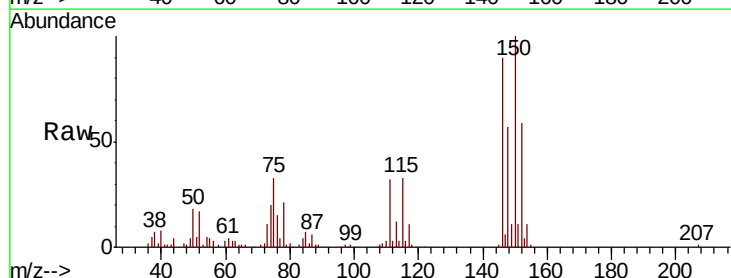
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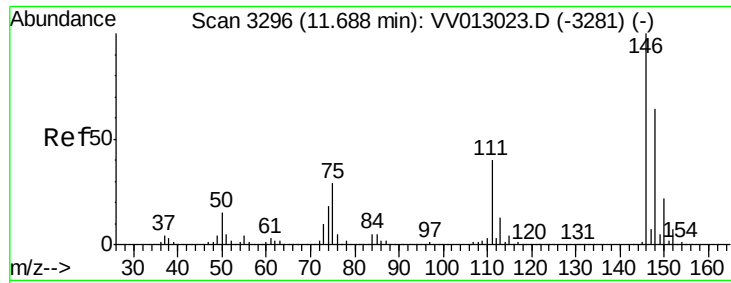
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#65
 1,4-Dichlorobenzene
 Concen: 2.116 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.9	25.4	47.2
148	63.0	44.2	82.2





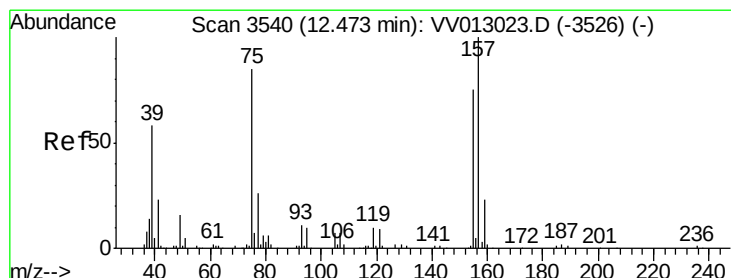
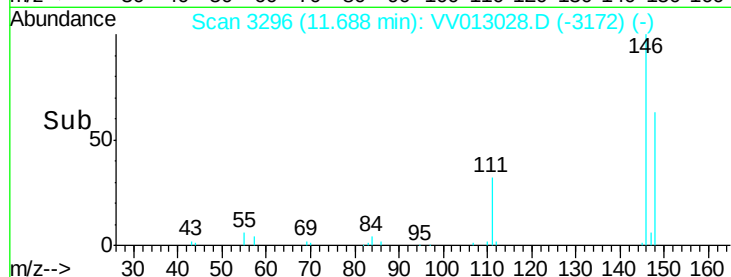
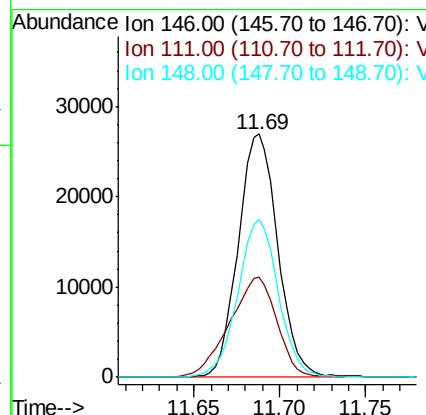
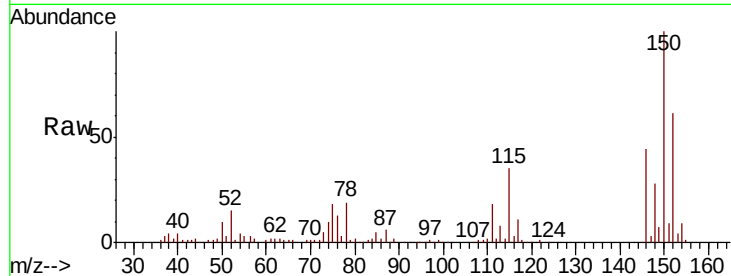
#67
 1,2-Dichlorobenzene
 Concen: 2.166 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.4	32.0	48.0
148	64.6	50.8	76.2

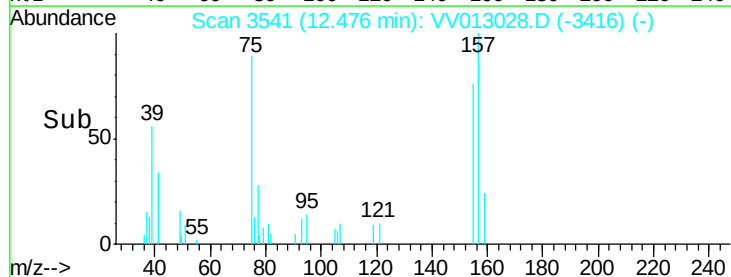
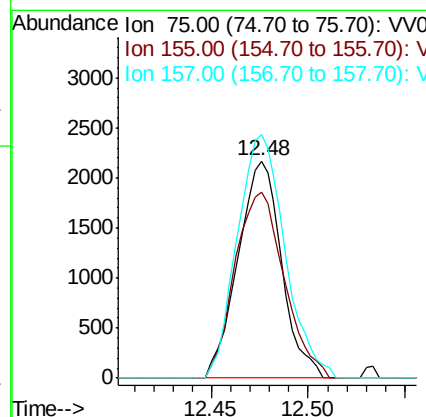
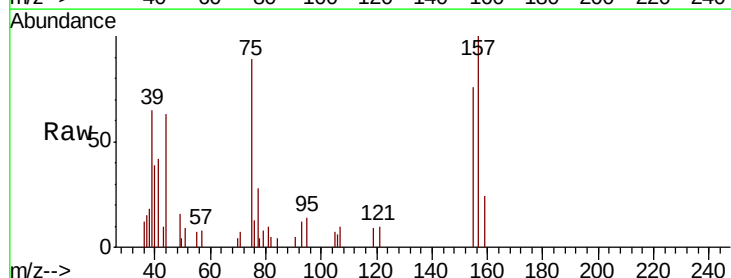
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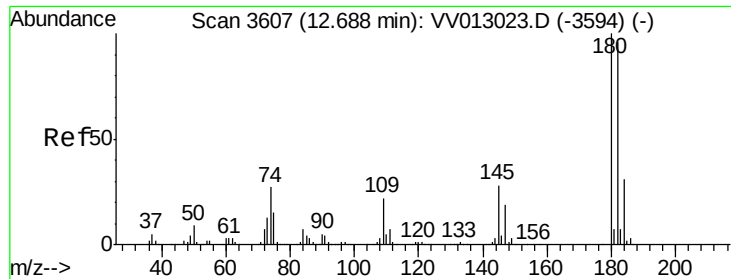
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.092 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.5	74.4	111.6
157	112.3	95.8	143.6





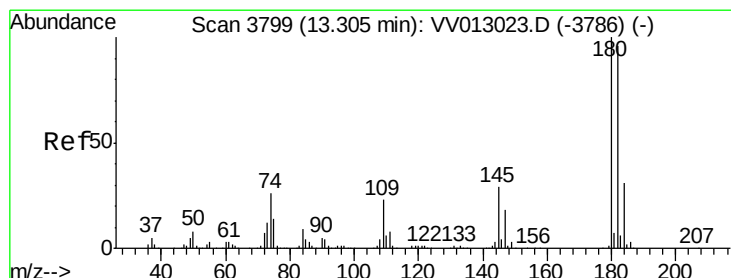
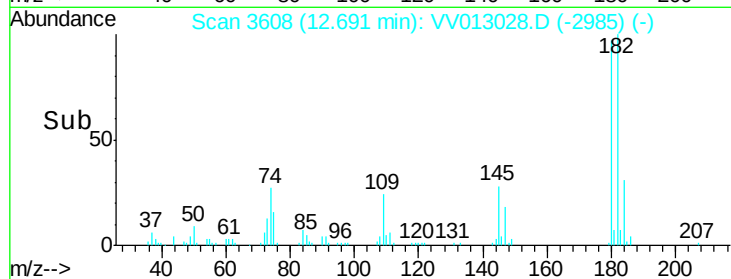
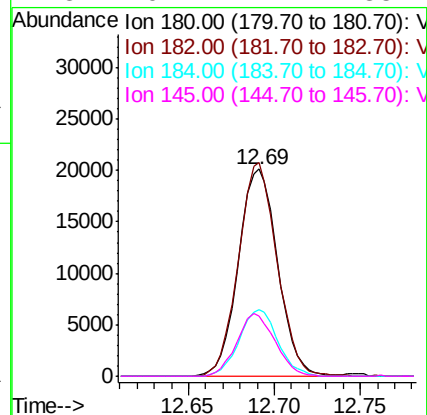
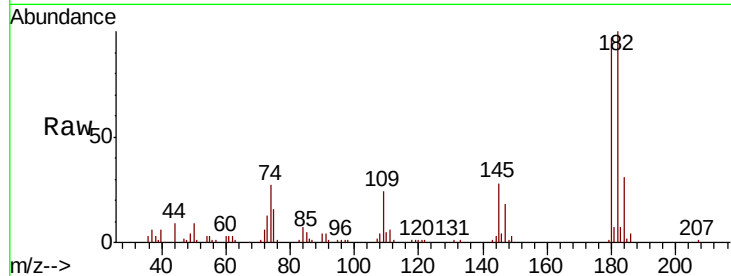
#69
 1,3,5-Trichlorobenzene
 Concen: 1.917 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL04

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.1	76.6	115.0
184	31.4	24.6	37.0
145	29.4	22.2	33.4

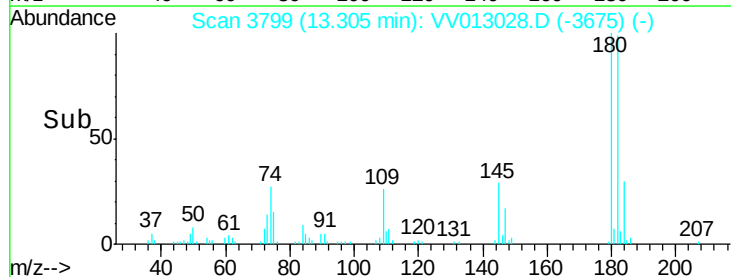
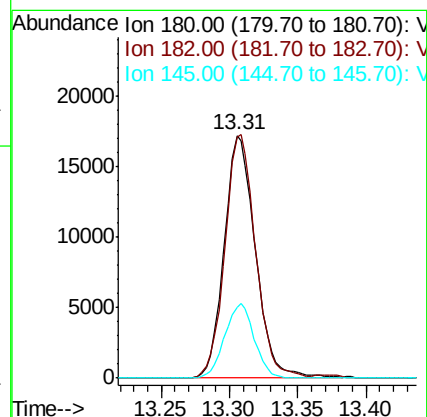
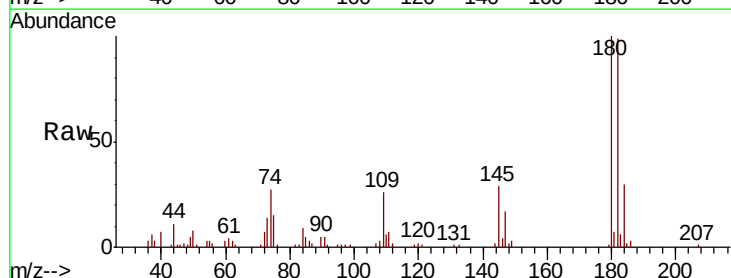
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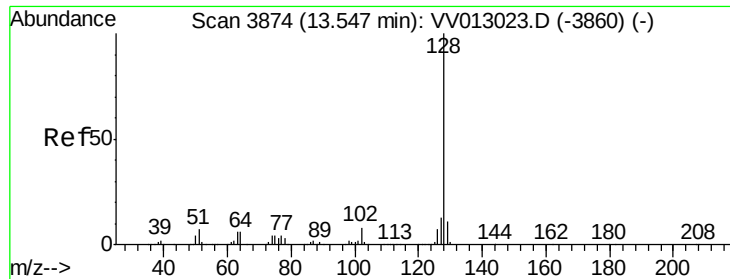
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#70
 1,2,4-trichlorobenzene
 Concen: 1.892 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013028.D
 Acq: 02 Oct 2019 12:17

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.4	76.0	114.0
145	28.9	22.5	33.7





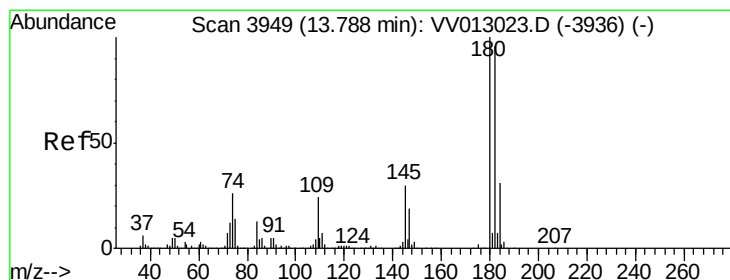
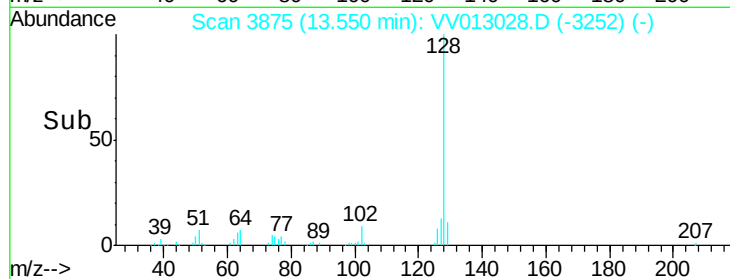
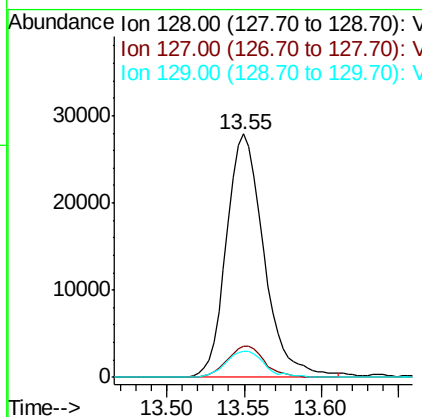
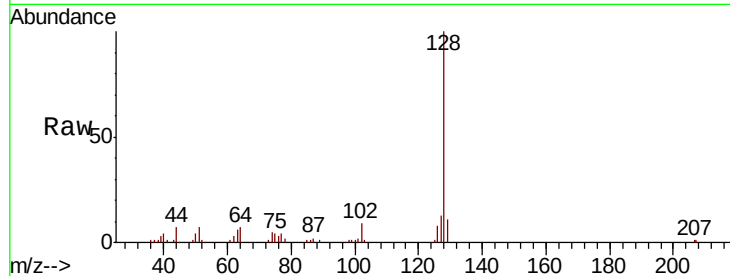
#71
Naphthalene
Concen: 1.662 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Instrument :
MSVOA_V
ClientSampleId :
MDL04

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.4	8.6	12.8

Manual Integrations
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#72
1,2,3-Trichlorobenzene
Concen: 1.890 ug/L
RT: 13.79 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VV013028.D
Acq: 02 Oct 2019 12:17

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.6	76.7	115.1
145	30.3	24.2	36.4

