

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062620\
 Data File : VX017002.D
 Acq On : 27 Jun 2020 00:26
 Operator : JC/SP
 Sample : L3146-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 200624026-02-VOA

Manual Integrations
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Quant Time: Jun 29 07:12:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 09:03:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	53190	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	295158	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	282868	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	123111	29.74	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.13%
60) 4-Bromofluorobenzene	11.12	95	137008	29.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.80%
63) Toluene-d8	8.70	98	357113	28.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.47%

Target Compounds

					Ovalue
4) Vinyl Chloride	1.40	62	1700	0.475	ug/l 93
8) Diethyl Ether	2.17	74	12082	5.708	ug/l 97
15) Acetone	2.42	58	13539	28.759	ug/l 84
22) cis-1,2-Dichloroethene	4.57	96	3530	0.919	ug/l 83
23) tert-Butyl Alcohol	3.01	59	3427664	4253.546	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	28268	2.600	ug/l 99
34) Benzene	6.12	78	46078	3.291	ug/l 96
36) 1,2-Dichloroethane	6.17	62	3248m	0.606	ug/l
37) Trichloroethene	7.20	130	7746m	2.028	ug/l
39) 1,2-Dichloropropane	7.49	63	861	0.236	ug/l 95
45) 1,4-Dioxane	7.72	88	7005	81.145	ug/l # 81
58) 4-Methyl-2-Pentanone	8.62	43	30695	5.891	ug/l 94
62) Toluene	8.77	91	87688	5.668	ug/l 99
64) Chlorobenzene	10.12	112	9471m	0.977	ug/l
66) Ethyl Benzene	10.24	91	17104	0.997	ug/l 96
67) m/p-Xylenes	10.34	106	52593	8.126	ug/l 97
68) o-Xylene	10.68	106	33232	5.345	ug/l 96
76) 1,3,5-Trimethylbenzene	11.49	105	10680	0.755	ug/l 94
80) 1,2,4-Trimethylbenzene	11.79	105	29370	2.067	ug/l 99
82) p-Isopropyltoluene	12.05	119	3643	0.246	ug/l 87
84) 1,4-Dichlorobenzene	12.08	146	22465	2.932	ug/l 96
91) Naphthalene	13.82	128	4978	0.315	ug/l 96

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

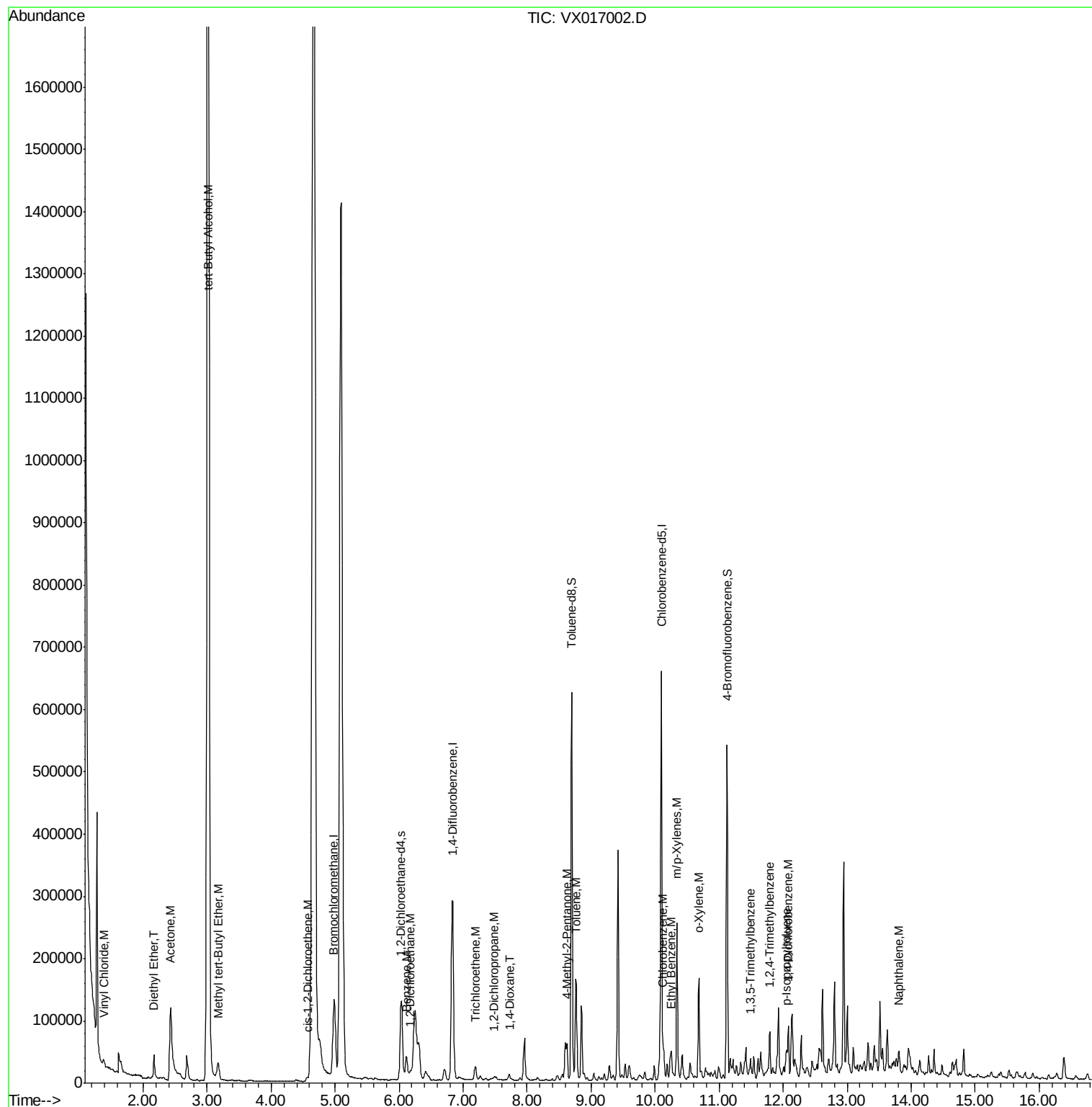
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062620\
Data File : VX017002.D
Acq On : 27 Jun 2020 00:26
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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 36 Sample Multiplier: 1

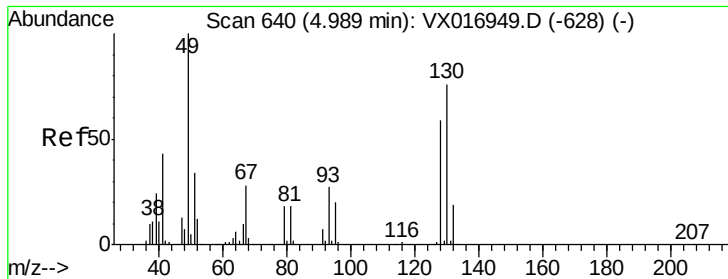
Instrument :
MSVOA_X
ClientSampleId :
200624026-02-VOA

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Quant Time: Jun 29 07:12:20 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jun 26 09:03:25 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.99 min Scan# 640

Delta R.T. 0.00 min

Lab File: VX017002.D

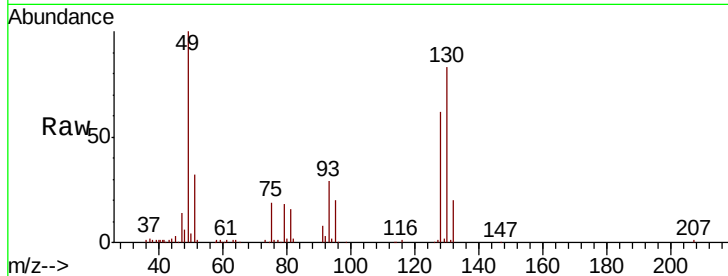
Acq: 27 Jun 2020 00:26

Instrument :

MSVOA_X

ClientSampleId :

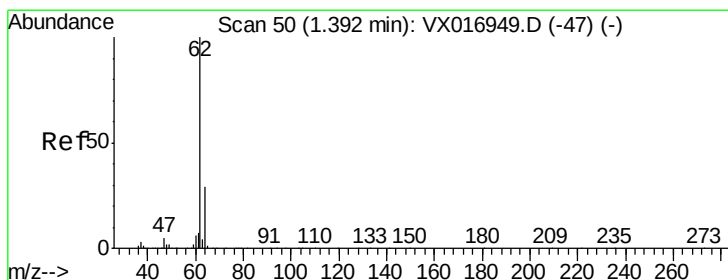
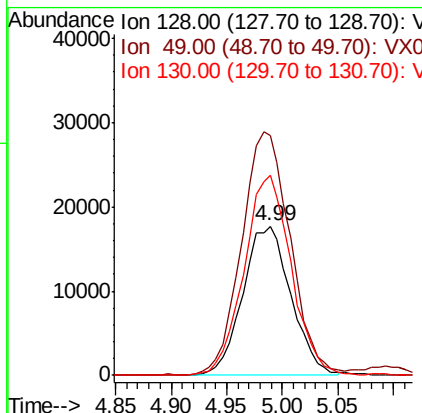
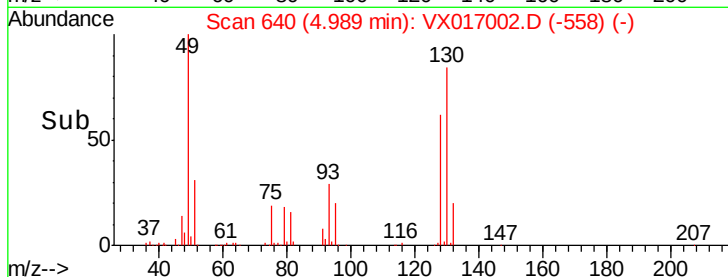
200624026-02-VOA



Tot Ion:	128	Resp:	53190
Ion	Ratio	Lower	Upper
128	100		
49	165.5	0.0	428.0
130	131.5	0.0	318.0

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#4

Vinyl Chloride

Concen: 0.475 ug/l

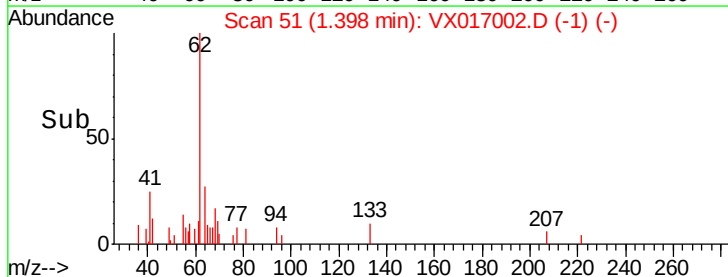
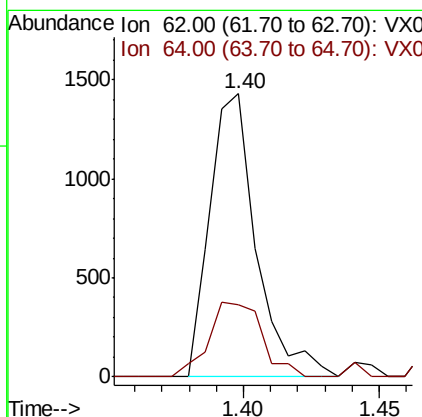
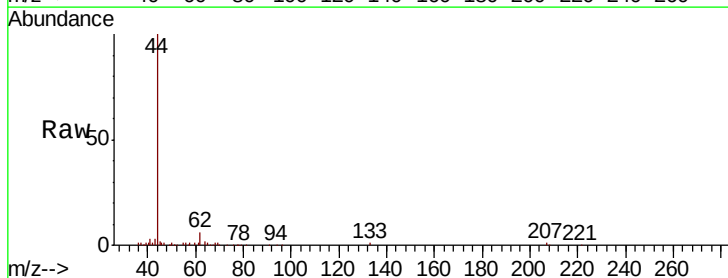
RT: 1.40 min Scan# 51

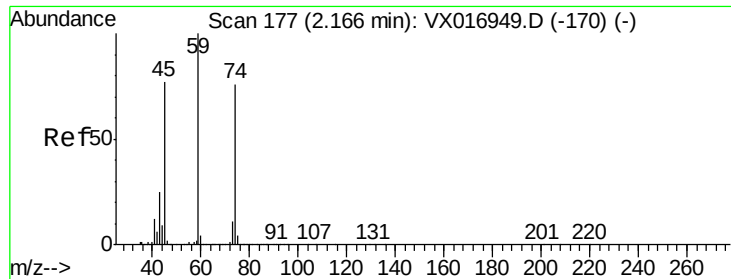
Delta R.T. 0.01 min

Lab File: VX017002.D

Acq: 27 Jun 2020 00:26

Tgt Ion:	62	Resp:	1700
Ion	Ratio	Lower	Upper
62	100		
64	25.5	23.4	35.0





#8

Diethyl Ether

Concen: 5.708 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017002.D

Acq: 27 Jun 2020 00:26

Instrument :

MSVOA_X

ClientSampleId :

200624026-02-VOA

Tot Ion: 74 Resp: 12082

Ion Ratio Lower Upper

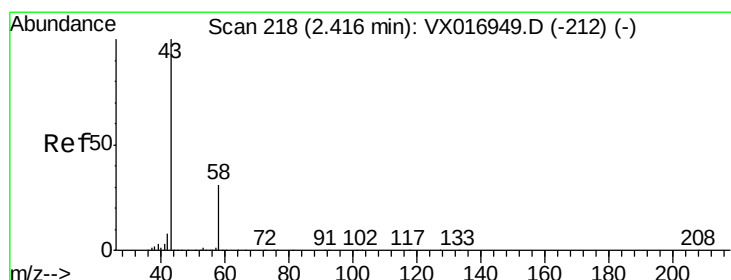
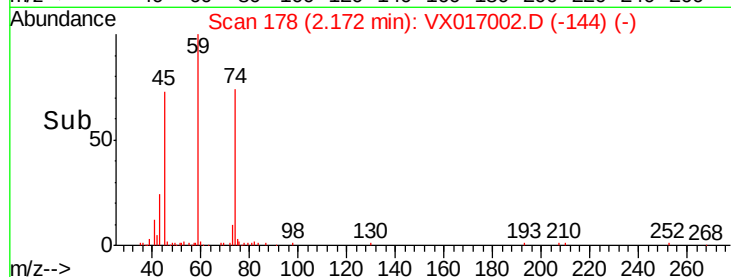
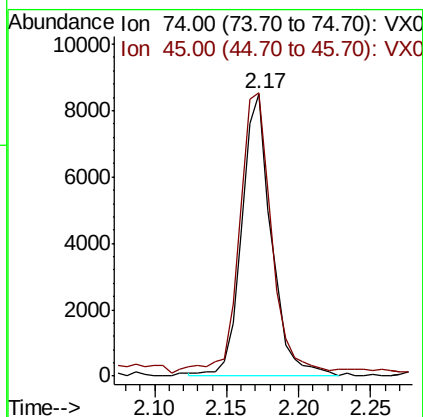
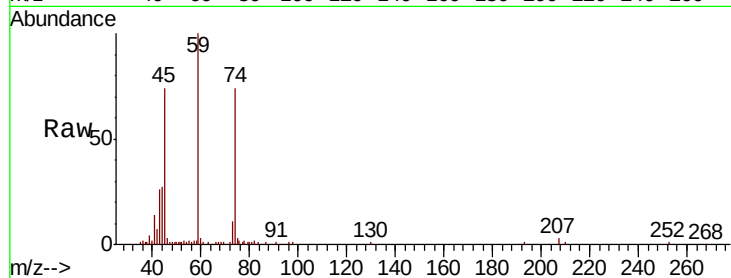
74 100

45 102.4 19.8 178.2

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#15

Acetone

Concen: 28.759 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX017002.D

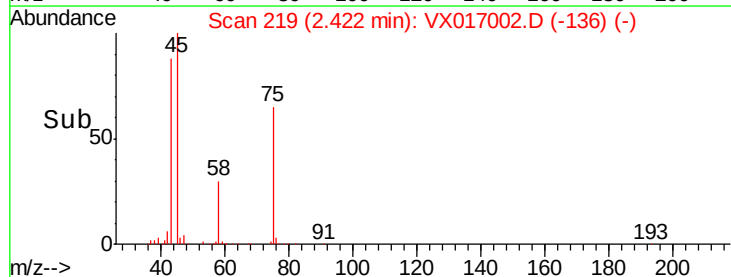
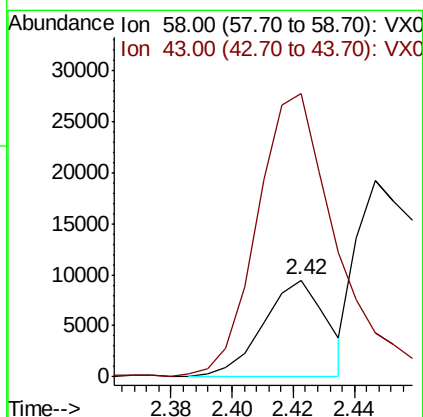
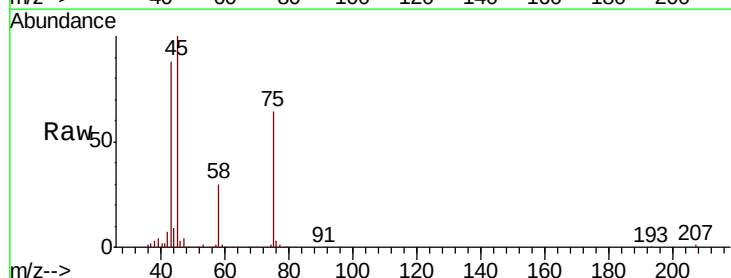
Acq: 27 Jun 2020 00:26

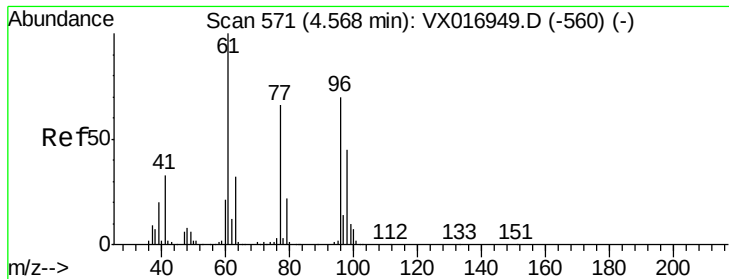
Tgt Ion: 58 Resp: 13539

Ion Ratio Lower Upper

58 100

43 289.6 257.6 386.4





#22

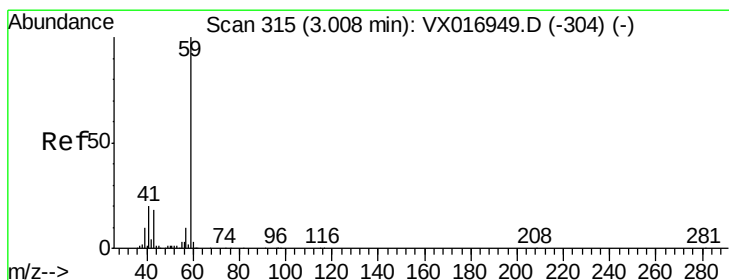
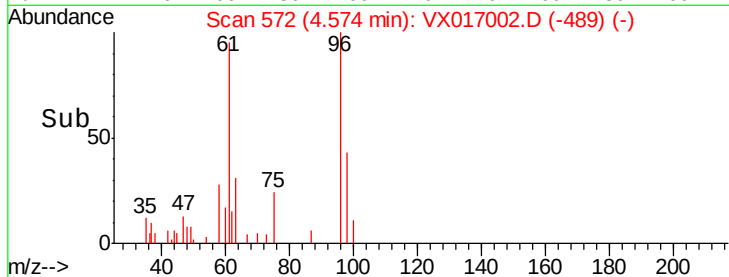
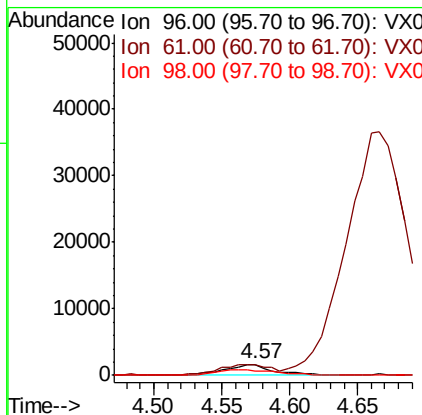
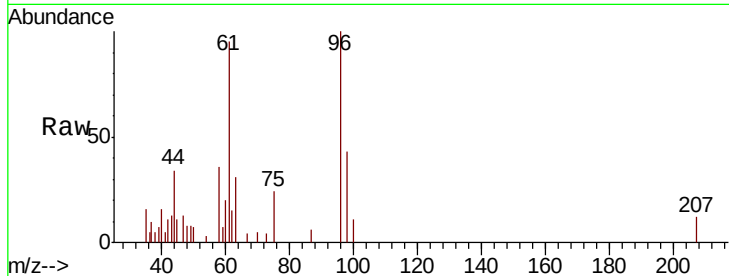
cis-1,2-Dichloroethene
 Concen: 0.919 ug/l
 RT: 4.57 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VX017002.D
 Acq: 27 Jun 2020 00:26

Instrument :
 MSVOA_X
 ClientSampleId :
 200624026-02-VOA

Tot Ion	Ratio	Lower	Upper
96	100		
61	125.9	120.8	181.2
98	56.0	51.7	77.5

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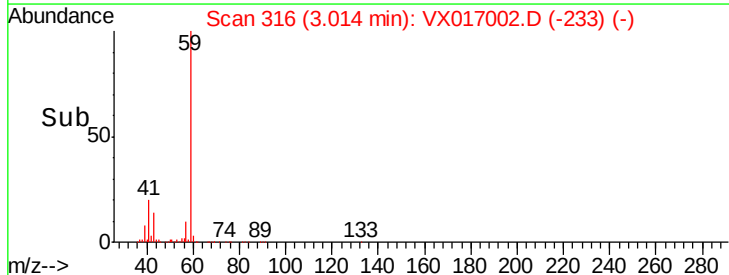
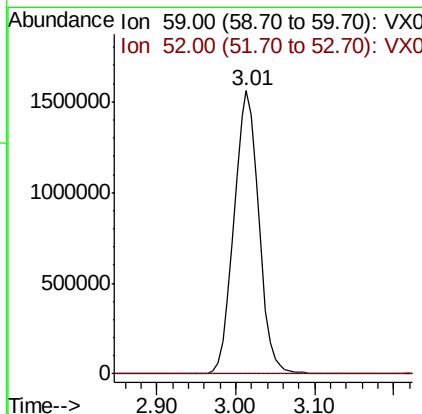
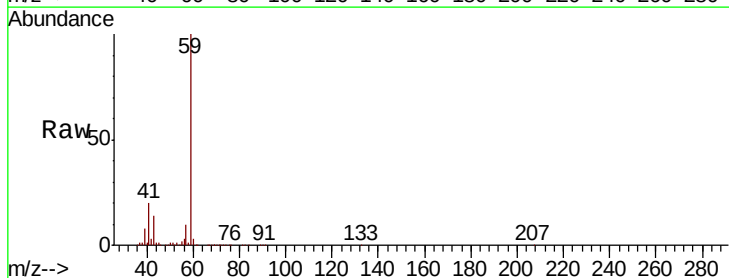
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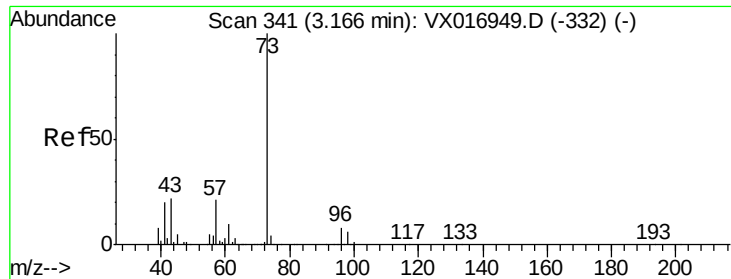


#23

tert-Butyl Alcohol
 Concen: 4253.546 ug/l
 RT: 3.01 min Scan# 316
 Delta R.T. 0.01 min
 Lab File: VX017002.D
 Acq: 27 Jun 2020 00:26

Tgt Ion	Ratio	Lower	Upper
59	100		
52	0.2	0.1	0.1#





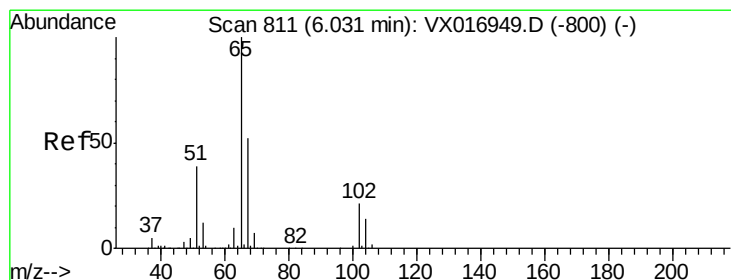
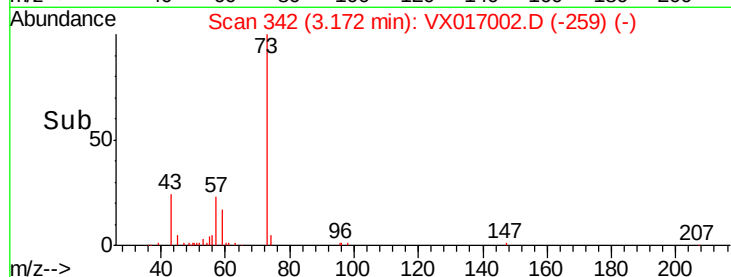
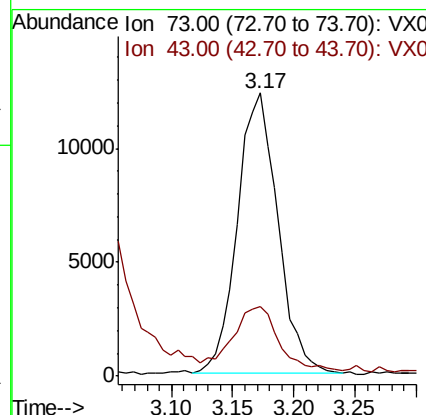
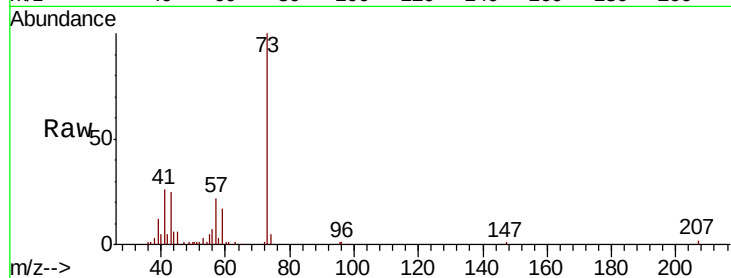
#24
Methyl tert-Butyl Ether
Concen: 2.600 ug/l
RT: 3.17 min Scan# 342
Delta R.T. 0.01 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Instrument :
MSVOA_X
ClientSampleId :
200624026-02-VOA

Tot Ion: 73 Resp: 28268
Ion Ratio Lower Upper
73 100
43 21.1 17.2 25.8

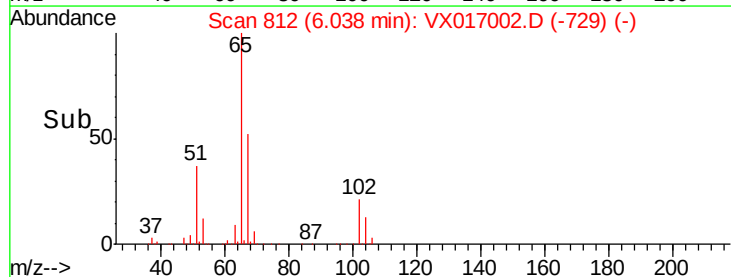
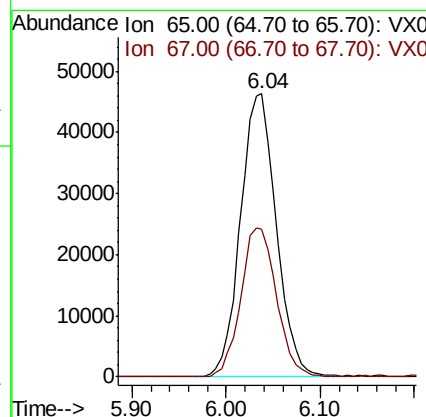
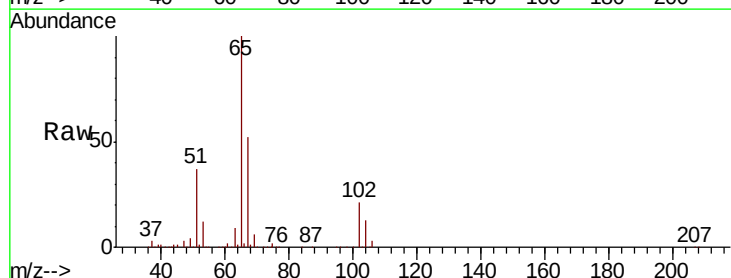
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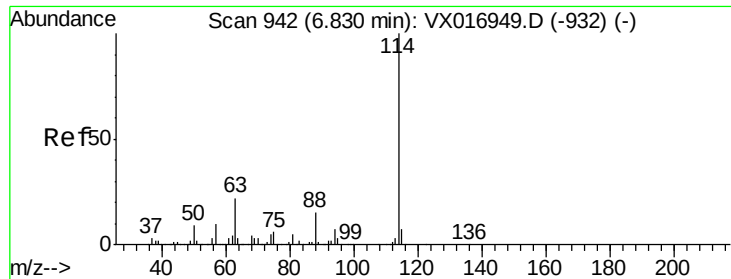
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#27
1,2-Dichloroethane-d4
Concen: 29.737 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Tgt Ion: 65 Resp: 123111
Ion Ratio Lower Upper
65 100
67 52.4 41.5 62.3





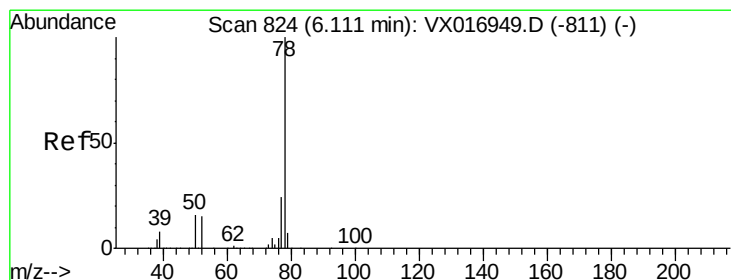
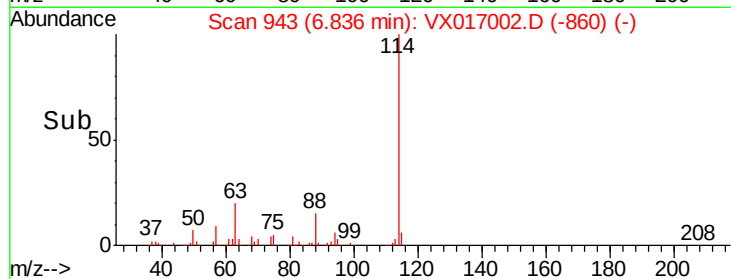
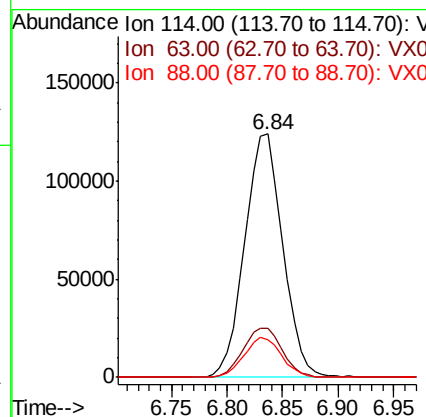
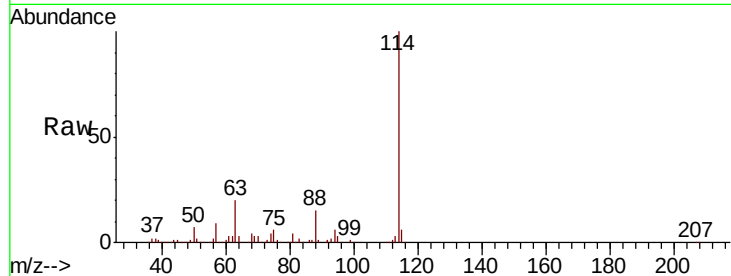
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017002.D
 Acq: 27 Jun 2020 00:26

Instrument :
 MSVOA_X
 ClientSampleId :
 200624026-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
114	100	295158		
63	21.0		17.4	26.2
88	16.1		13.0	19.6

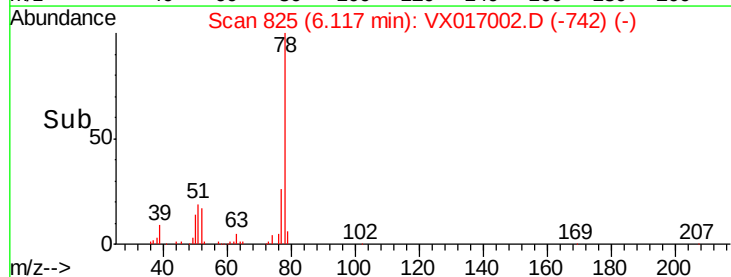
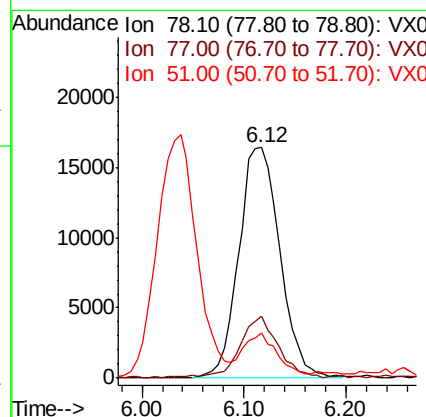
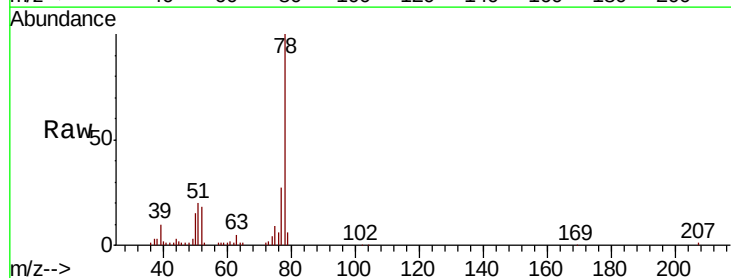
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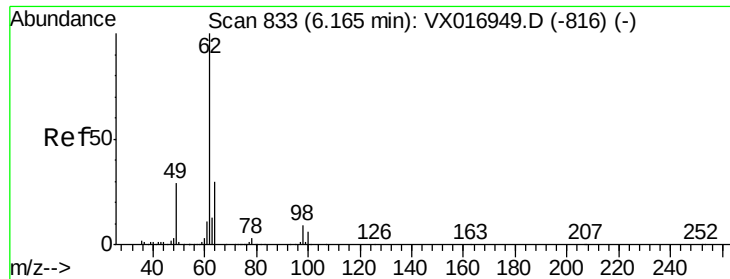
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#34
 Benzene
 Concen: 3.291 ug/l
 RT: 6.12 min Scan# 825
 Delta R.T. 0.01 min
 Lab File: VX017002.D
 Acq: 27 Jun 2020 00:26

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	46078		
77	25.5		19.0	28.6
51	17.9		12.8	19.2





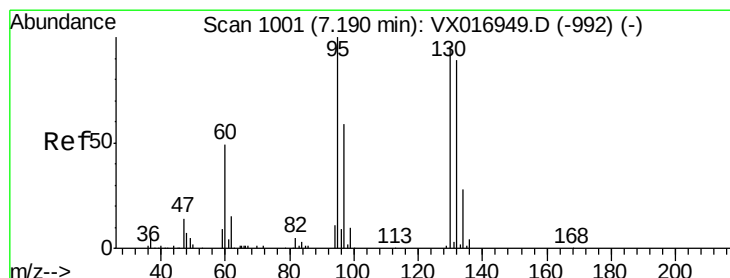
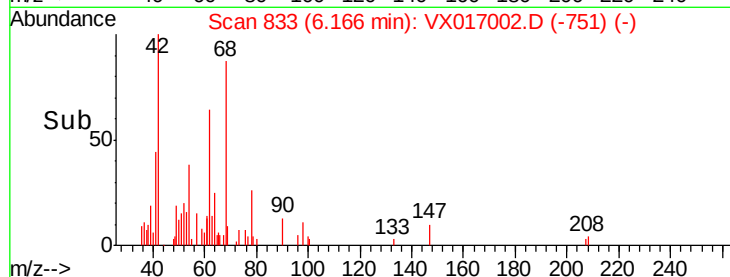
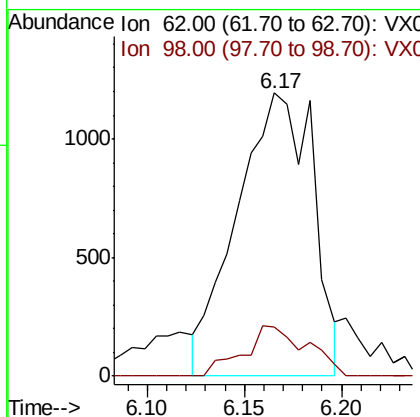
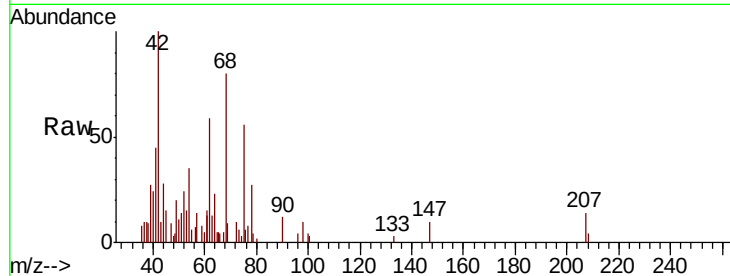
#36
 1,2-Dichloroethane
 Concen: 0.606 ug/l m
 RT: 6.17 min Scan# 833
 Delta R.T. 0.00 min
 Lab File: VX017002.D
 Acq: 27 Jun 2020 00:26

Instrument :
 MSVOA_X
 ClientSampleId :
 200624026-02-VOA

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.6	7.6	11.4#

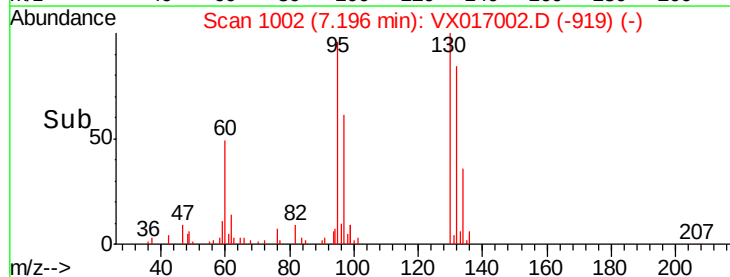
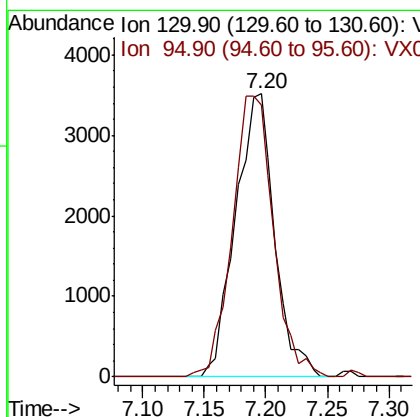
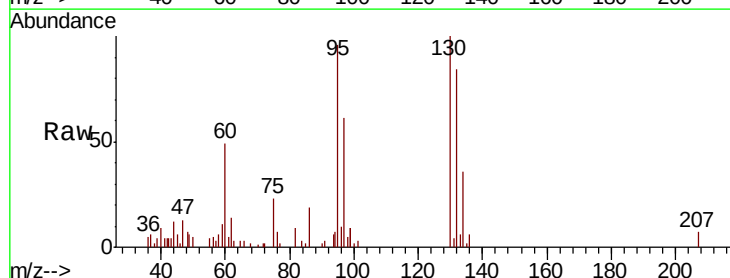
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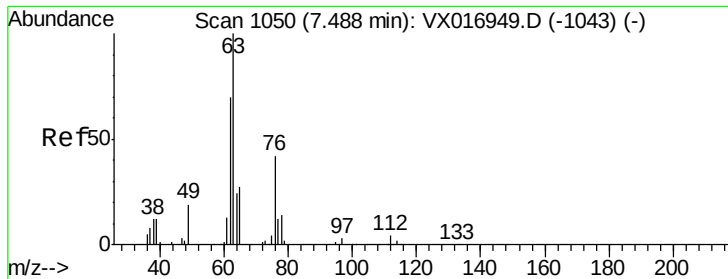
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#37
 Trichloroethene
 Concen: 2.028 ug/l m
 RT: 7.20 min Scan# 1002
 Delta R.T. 0.01 min
 Lab File: VX017002.D
 Acq: 27 Jun 2020 00:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	96.0	83.1	124.7





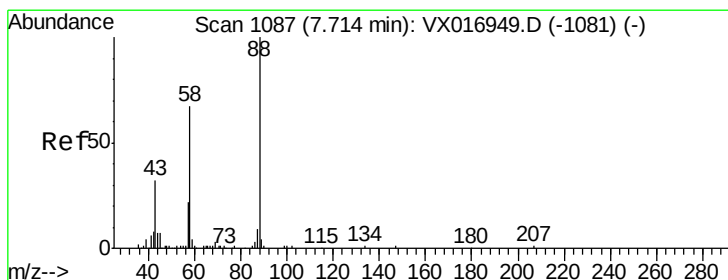
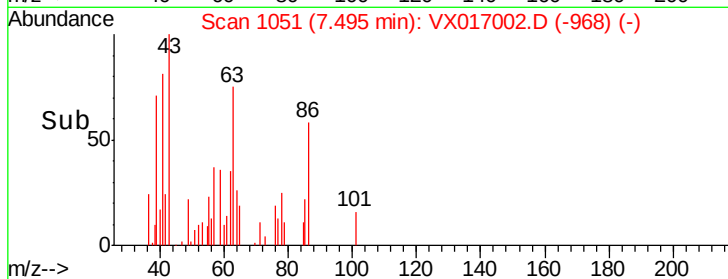
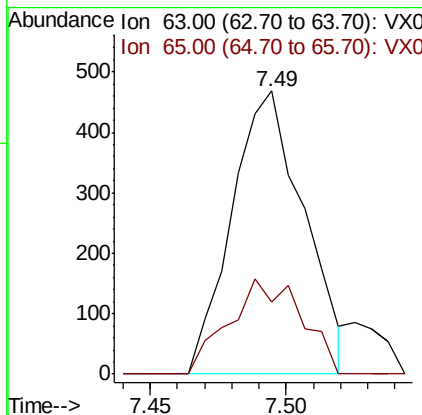
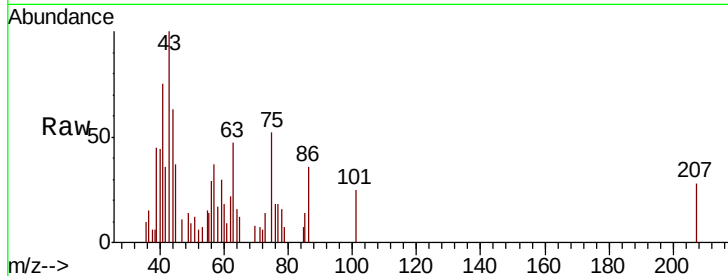
#39
 1,2-Dichloropropane
 Concen: 0.236 ug/l
 RT: 7.49 min Scan# 1051
 Delta R.T. 0.01 min
 Lab File: VX017002.D
 Acq: 27 Jun 2020 00:26

Instrument :
 MSVOA_X
 ClientSampleId :
 200624026-02-VOA

Tot Ion: 63 Resp: 861
 Ion Ratio Lower Upper
 63 100
 65 25.6 22.8 34.2

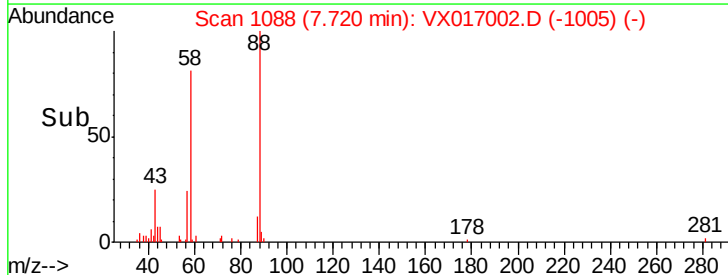
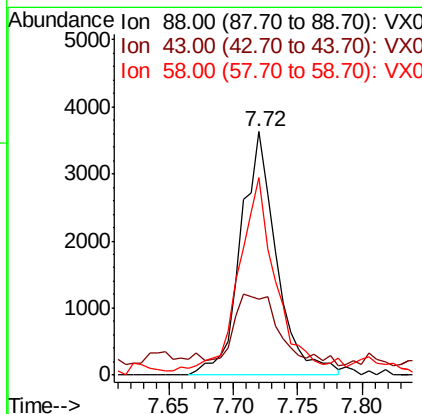
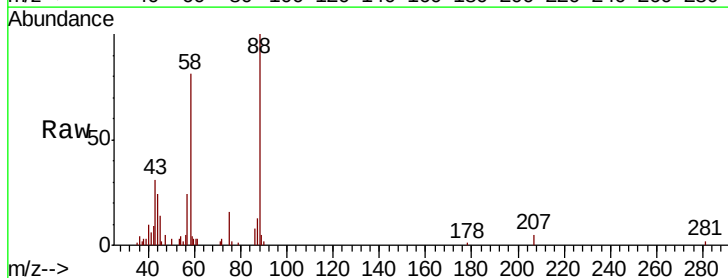
Manual Integrations
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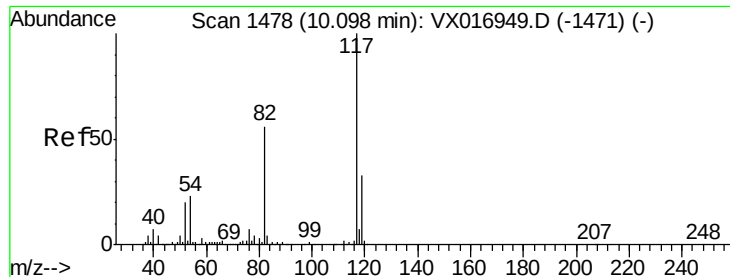
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#45
 1,4-Dioxane
 Concen: 81.145 ug/l
 RT: 7.72 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: VX017002.D
 Acq: 27 Jun 2020 00:26

Tgt Ion: 88 Resp: 7005
 Ion Ratio Lower Upper
 88 100
 43 19.4 28.9 43.3#
 58 82.9 56.7 85.1





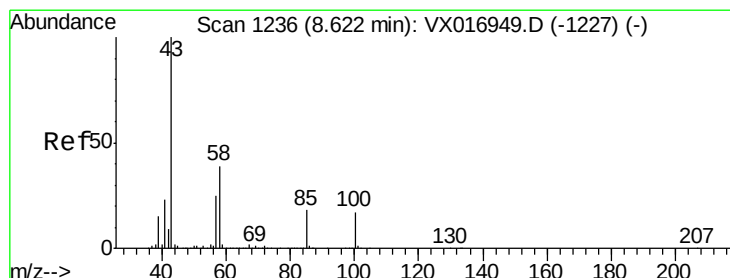
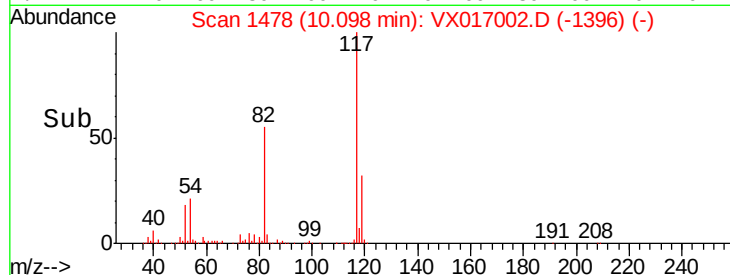
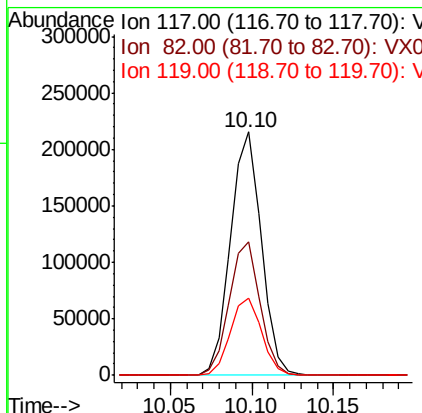
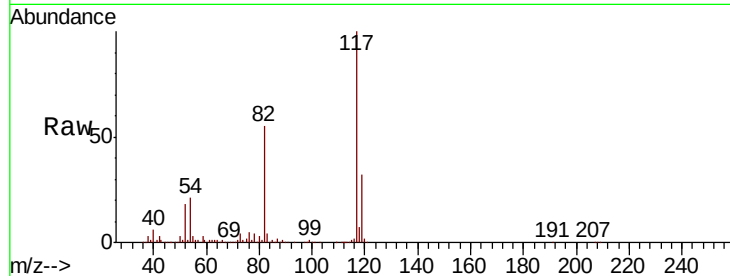
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Instrument :
MSVOA_X
ClientSampleId :
200624026-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
117	100	282868		
82	54.8		44.9	67.3
119	32.3		25.8	38.8

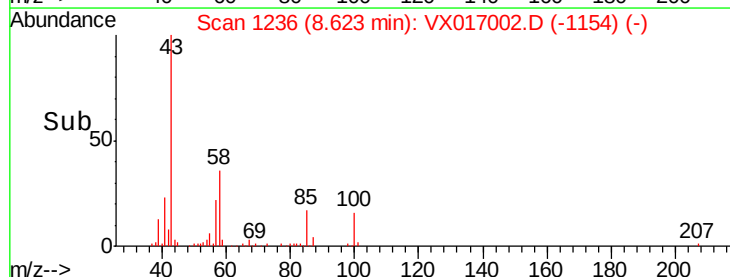
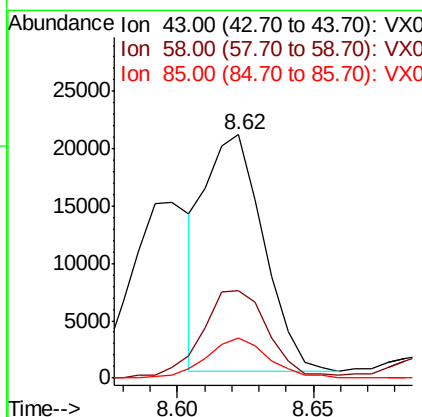
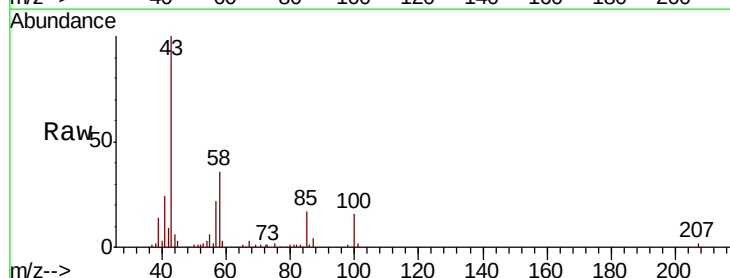
Manual Integrations
APPROVED

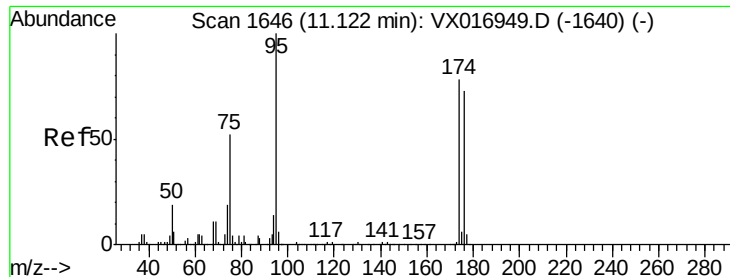
MMDadoda
6/29/2020 12:32:56 PM



#58
4-Methyl-2-Pentanone
Concen: 5.891 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	30695		
58	42.2		30.4	45.6
85	18.1		13.5	20.3





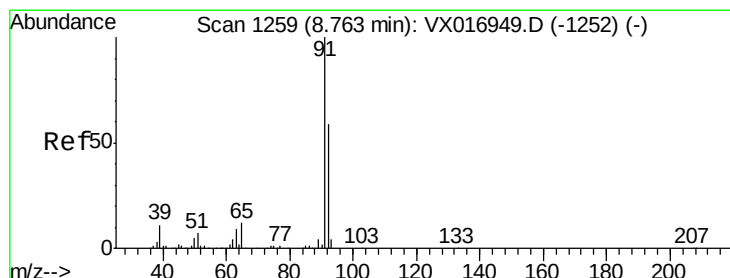
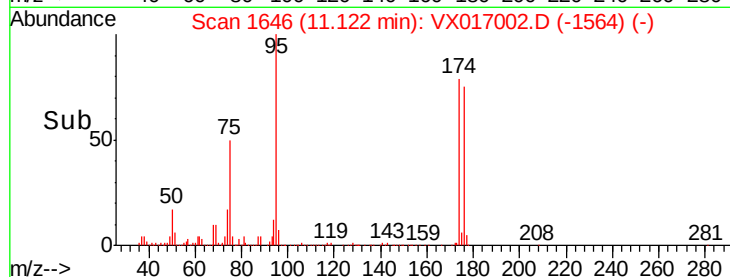
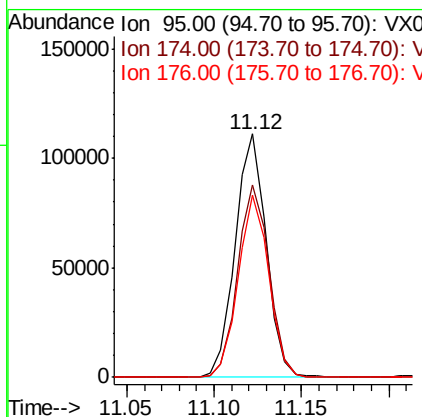
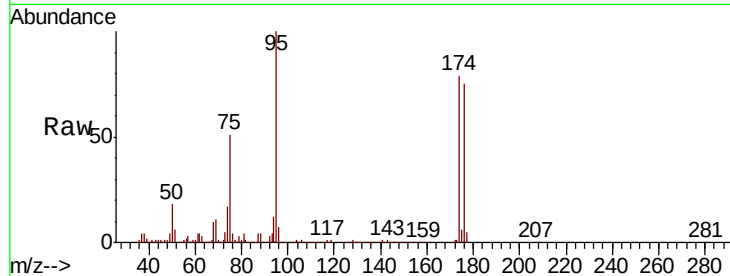
#60
4-Bromofluorobenzene
Concen: 29.043 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Instrument :
MSVOA_X
ClientSampleId :
200624026-02-VOA

Tot Ion	Ratio	Lower	Upper
95	100		
174	80.0	62.2	93.4
176	74.0	58.9	88.3

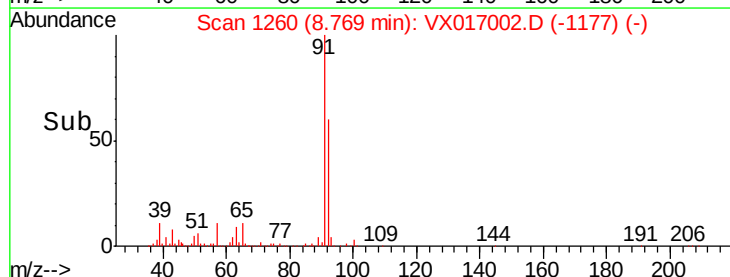
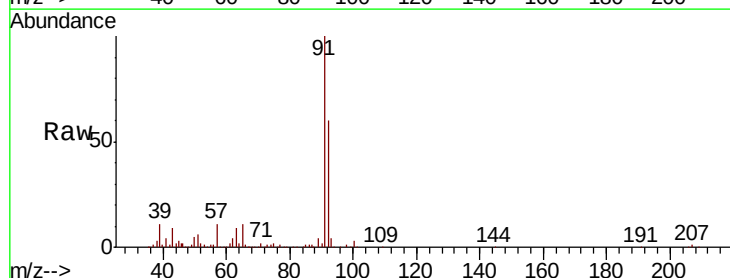
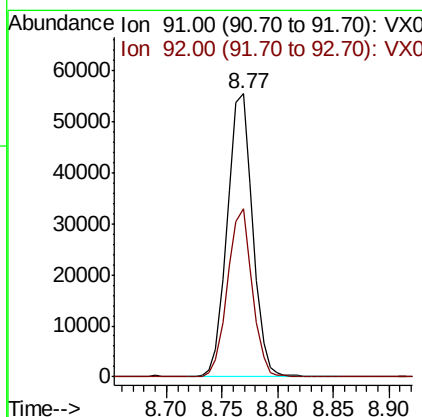
Manual Integrations
APPROVED

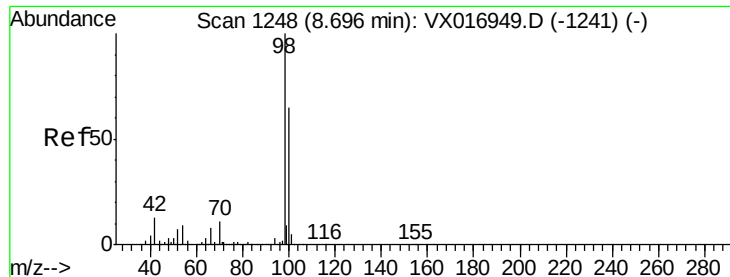
MMDadoda
6/29/2020 12:32:56 PM



#62
Toluene
Concen: 5.668 ug/l
RT: 8.77 min Scan# 1260
Delta R.T. 0.01 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.8	46.8	70.2





#63

Toluene-d8

Concen: 28.640 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017002.D

Acq: 27 Jun 2020 00:26

Instrument :

MSVOA_X

ClientSampleId :

200624026-02-VOA

Tot Ion: 98 Resp: 357113

Ion Ratio Lower Upper

98 100

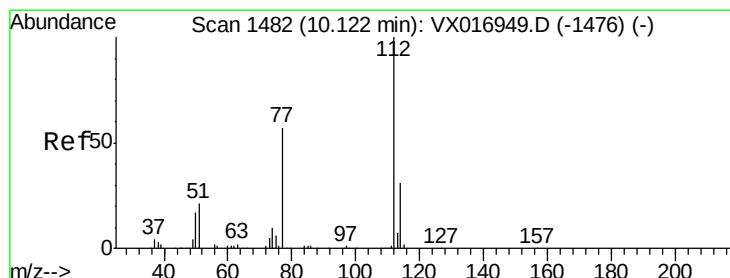
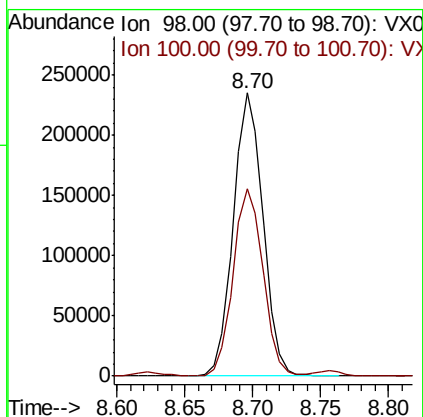
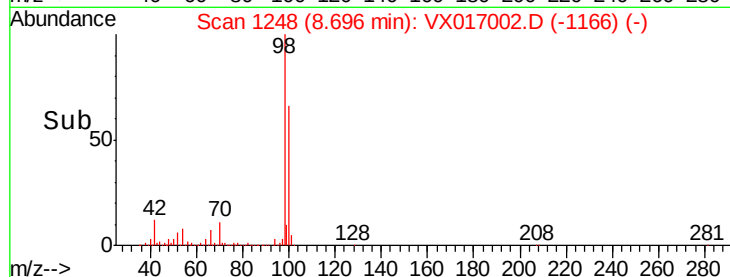
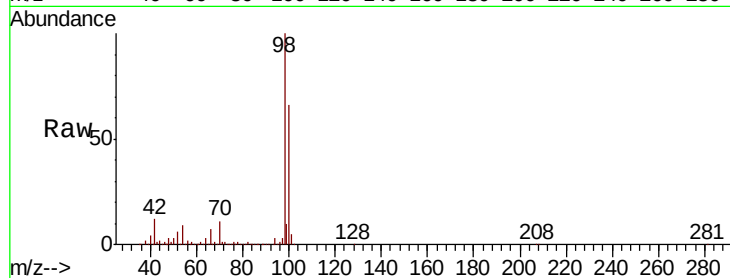
100 66.7 52.3 78.5

Manual Integrations

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#64

Chlorobenzene

Concen: 0.977 ug/l m

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX017002.D

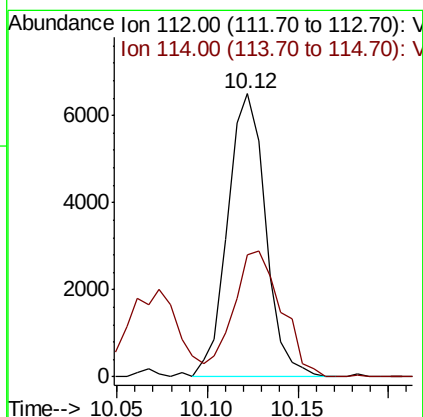
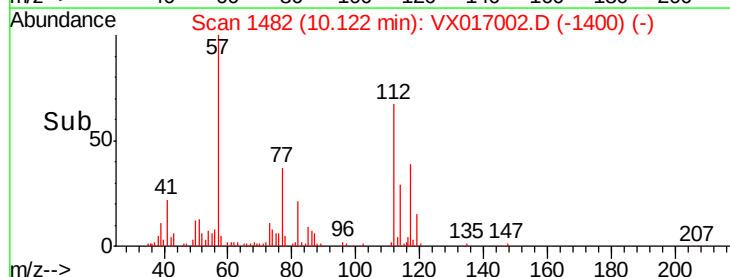
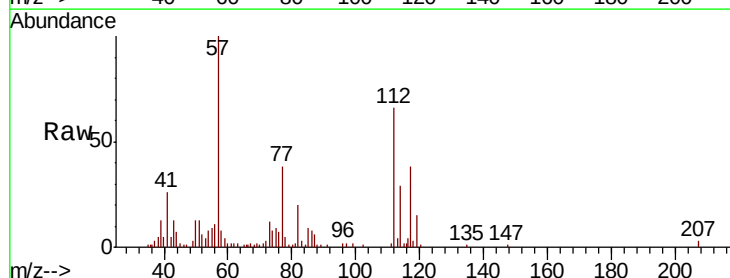
Acq: 27 Jun 2020 00:26

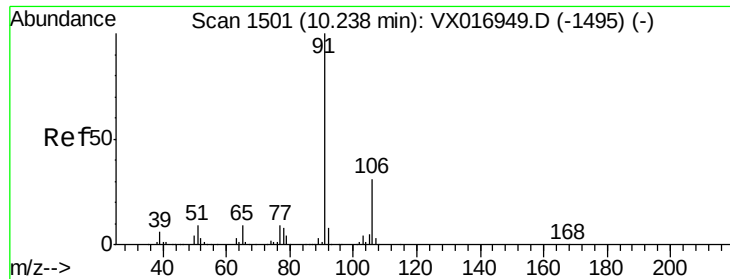
Tgt Ion: 112 Resp: 9471

Ion Ratio Lower Upper

112 100

114 43.3 24.9 37.3#





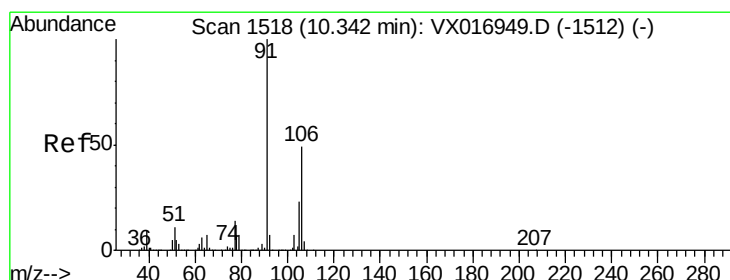
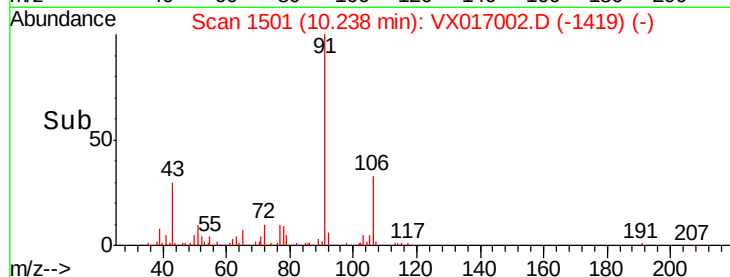
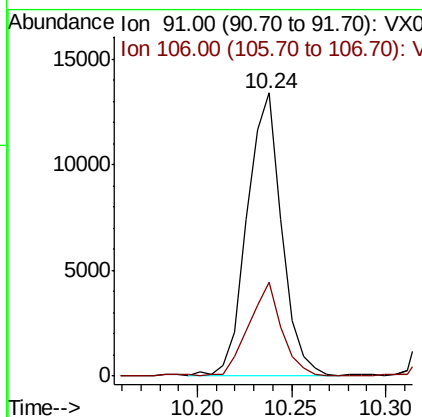
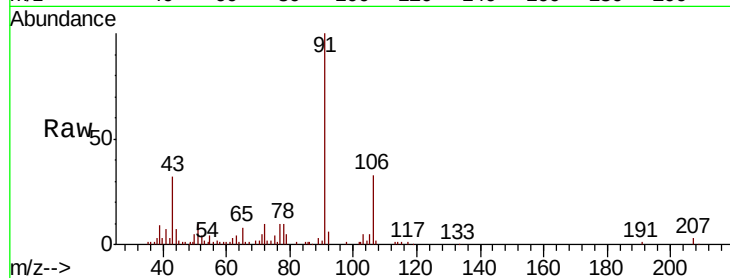
#66
Ethyl Benzene
Concen: 0.997 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. 0.00 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Instrument :
MSVOA_X
ClientSampleId :
200624026-02-VOA

Tot Ion: 91 Resp: 17104
Ion Ratio Lower Upper
91 100
106 33.2 24.8 37.2

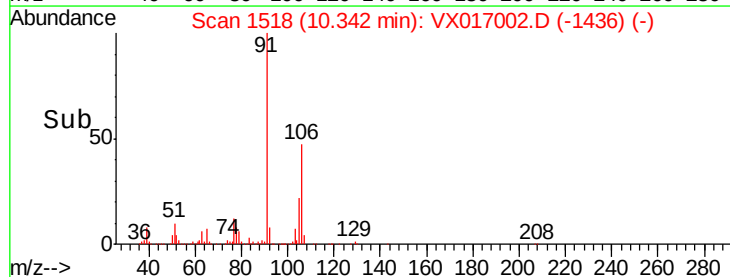
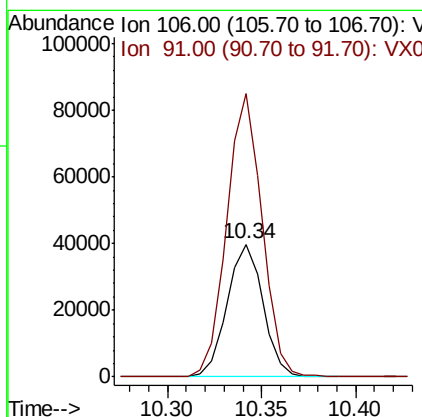
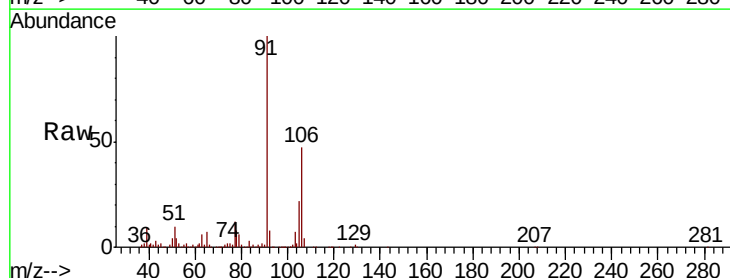
Manual Integrations
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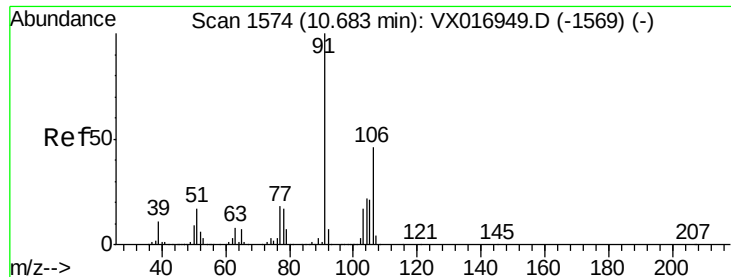
MMDadoda
6/29/2020 12:32:56 PM



#67
m/p-Xylenes
Concen: 8.126 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. 0.00 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Tgt Ion: 106 Resp: 52593
Ion Ratio Lower Upper
106 100
91 209.7 164.5 246.7





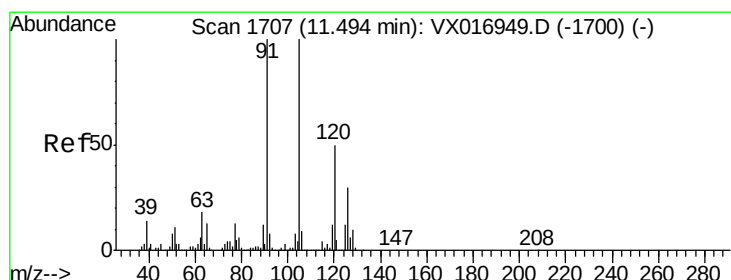
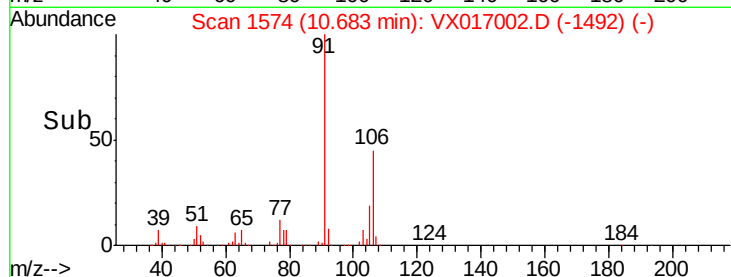
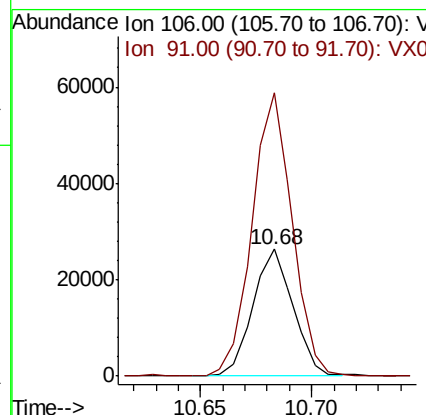
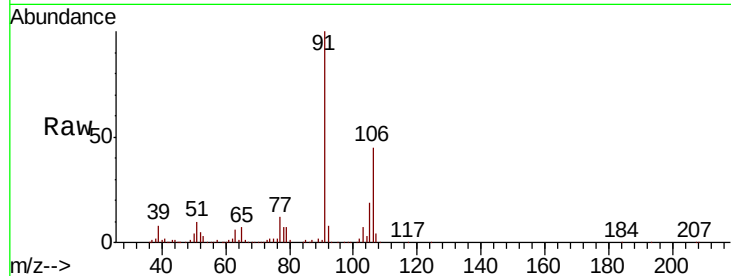
#68
o-Xylene
Concen: 5.345 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Instrument :
MSVOA_X
ClientSampleId :
200624026-02-VOA

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	221.6	107.3	33232		321.9

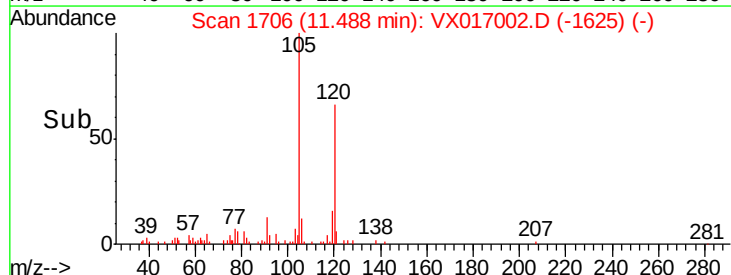
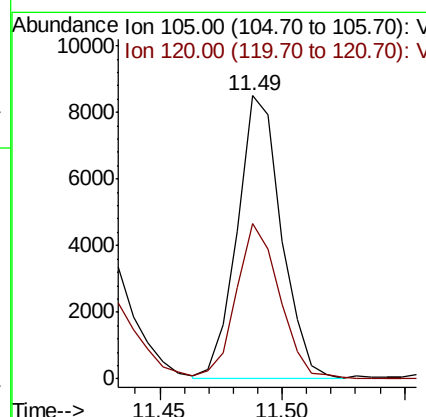
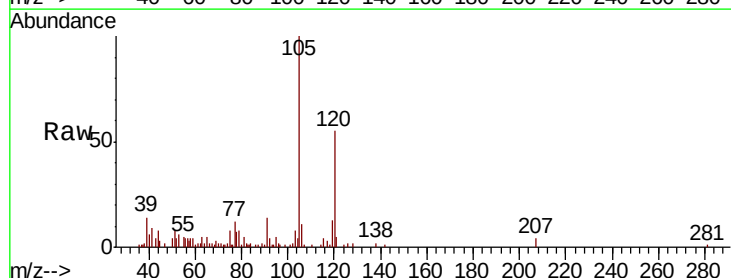
Manual Integrations
APPROVED

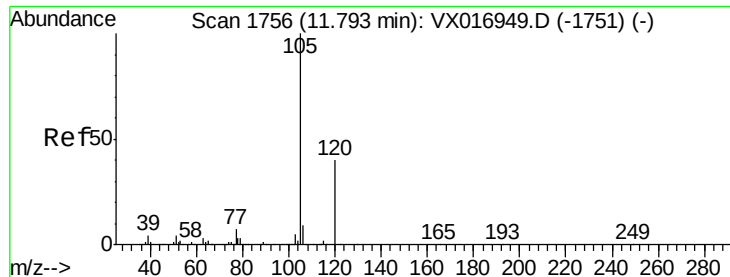
MMDadoda
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#76
1,3,5-Trimethylbenzene
Concen: 0.755 ug/l
RT: 11.49 min Scan# 1706
Delta R.T. -0.01 min
Lab File: VX017002.D
Acq: 27 Jun 2020 00:26

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100				
120	54.0	0.0	10680		99.4





#80

1,2,4-Trimethylbenzene

Concen: 2.067 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX017002.D

Acq: 27 Jun 2020 00:26

Instrument :

MSVOA_X

ClientSampleId :

200624026-02-VOA

Tot Ion:105 Resp: 29370

Ion Ratio Lower Upper

105 100

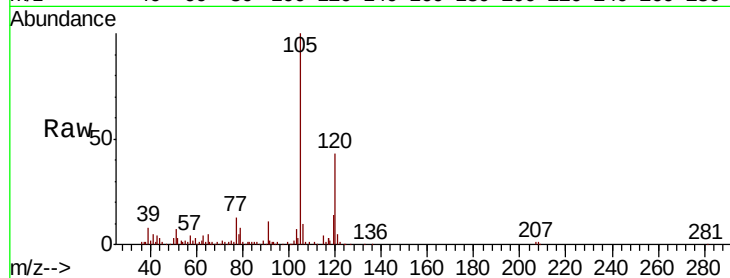
120 45.2 0.0 89.8

Manual Integrations

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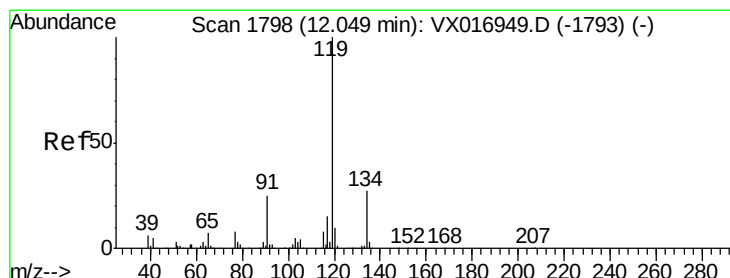
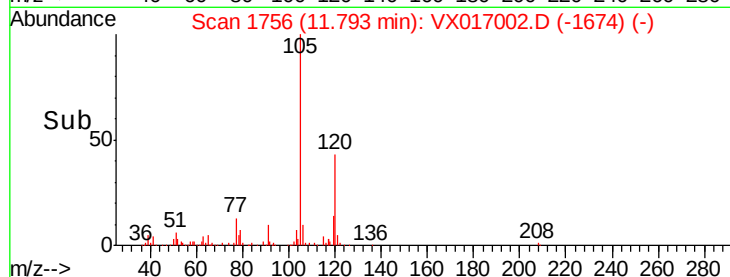
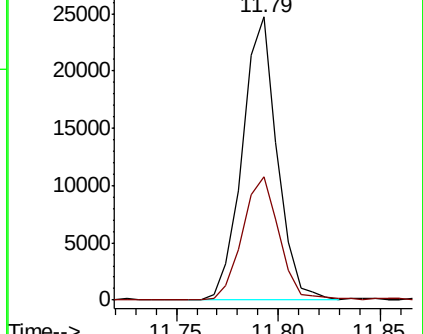
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

p-Isopropyltoluene

Concen: 0.246 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VX017002.D

Acq: 27 Jun 2020 00:26

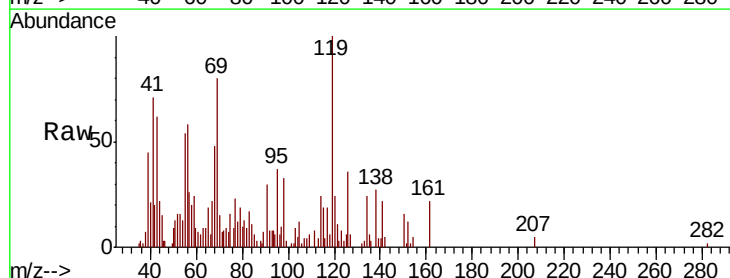
Tgt Ion:119 Resp: 3643

Ion Ratio Lower Upper

119 100

134 32.1 0.0 53.0

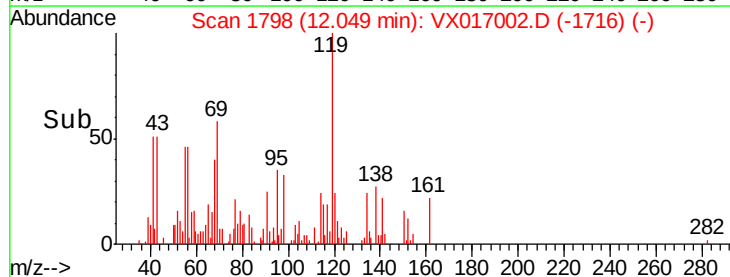
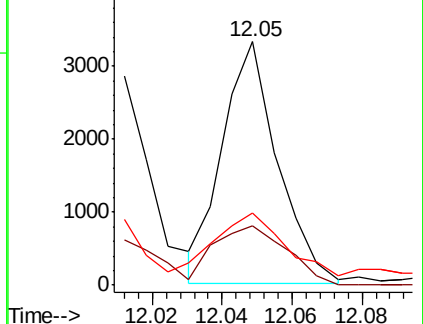
91 32.5 0.0 49.0

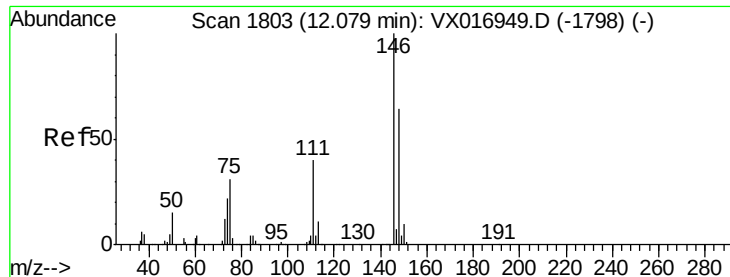


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#84

1,4-Dichlorobenzene

Concen: 2.932 ug/l

RT: 12.08 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VX017002.D

Acq: 27 Jun 2020 00:26

Instrument :

MSVOA_X

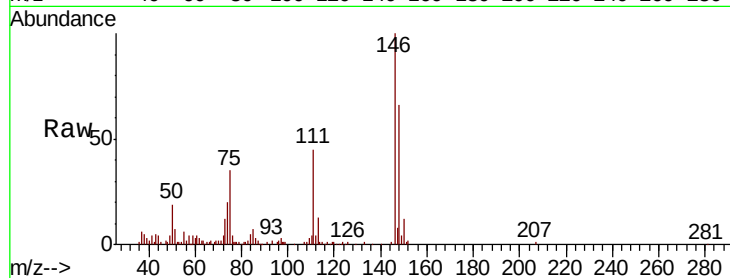
ClientSampleId :

200624026-02-VOA

Tot Ion:	146	Resp:	22465
Ion Ratio	Lower	Upper	
146	100		
111	42.2	19.4	58.2
148	66.7	32.1	96.3

Manual Integrations
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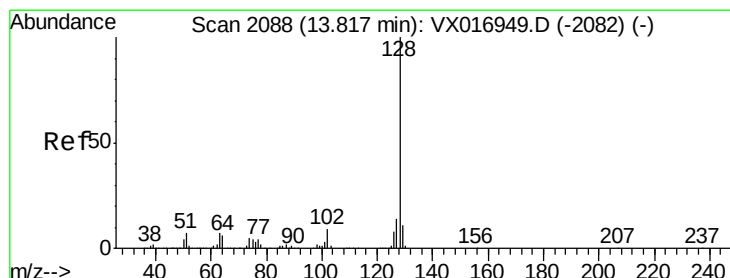
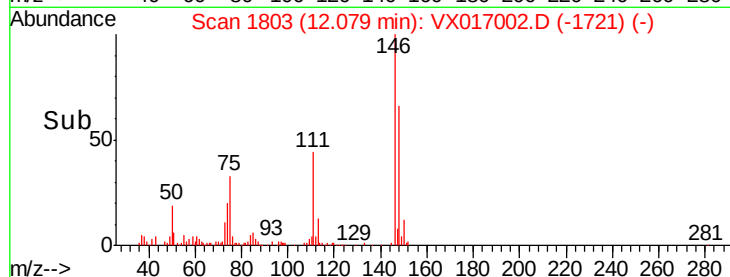
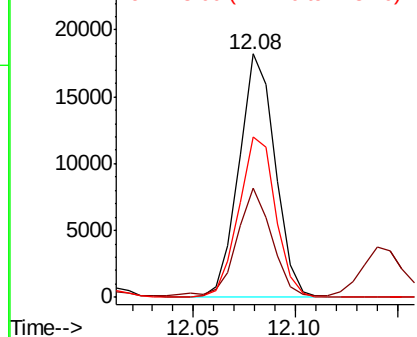


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#91

Naphthalene

Concen: 0.315 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX017002.D

Acq: 27 Jun 2020 00:26

Tgt Ion:	128	Resp:	4978
Ion Ratio	Lower	Upper	
128	100		
127	15.1	10.5	15.7
129	12.6	9.0	13.4

Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

