

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110320\
 Data File : VX019231.D
 Acq On : 03 Nov 2020 13:47
 Operator : JC/MD
 Sample : L4485-18
 Misc : 5.00µL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-ME-SOIL-04

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 10:35:40 AM

Quant Time: Nov 04 02:17:35 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SFAMXLM110220WMA.M

Quant Title : VOC Analysis

QLast Update : Wed Nov 04 01:20:42 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	438374	50.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	405619	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.06	152	180509	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	165241	43.78	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.56%
7) Chloroethane-d5	1.70	69	134637	48.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.10%
11) 1,1-Dichloroethene-d2	2.34	63	223134	35.83	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.66%
21) 2-Butanone-d5	4.54	46	207667	107.86	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.86%
24) Chloroform-d	5.14	84	278908	45.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.76%
26) 1,2-Dichloroethane-d4	6.03	65	199432	45.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.34%
32) Benzene-d6	6.05	84	590984	46.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.86%
36) 1,2-Dichloropropane-d6	7.37	67	181551	48.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.68%
41) Toluene-d8	8.70	98	559659	43.78	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.56%
43) trans-1,3-Dichloropropene-	8.99	79	93381	47.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.72%
47) 2-Hexanone-d5	9.43	63	164904	107.38	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.38%
56) 1,1,2,2-Tetrachloroethane-	11.23	84	215132	49.05	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.10%
66) 1,2-Dichlorobenzene-d4	12.36	152	181630	50.12	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.24%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	6288	2.263 ug/L	99
3) Chloromethane	1.31	50	6927	2.454 ug/L	99
5) Vinyl chloride	1.39	62	8115	2.551 ug/L #	63
6) Bromomethane	1.64	94	5354	2.547 ug/L	95
8) Chloroethane	1.72	64	4844	2.443 ug/L	93
9) Trichlorofluoromethane	1.92	101	10829	2.294 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.37	101	7940	2.916 ug/L #	83
12) 1,1-Dichloroethene	2.36	96	7440	2.816 ug/L #	1
13) Acetone	2.43	43	6032	5.069 ug/L	99
14) Carbon disulfide	2.56	76	17104	2.145 ug/L	98
15) Methyl Acetate	2.75	43	6728	2.591 ug/L	96
16) Methylene chloride	2.84	84	7782	2.642 ug/L	99
17) trans-1,2-Dichloroethene	3.15	96	6416	2.259 ug/L	96
18) Methyl tert-butyl Ether	3.17	73	20701	2.306 ug/L	95
19) 1,1-Dichloroethane	3.67	63	11551	2.289 ug/L	97
20) cis-1,2-Dichloroethene	4.57	96	7276	2.332 ug/L	95
22) 2-Butanone	4.65	43	8553	4.552 ug/L	95

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MMDadoda
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 QLast Update : Wed Nov 04 01:20:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.98	128	3645	2.320	ug/L	91
25) Chloroform	5.18	83	24323	4.592	ug/L	99
27) 1,2-Dichloroethane	6.16	62	10370	2.486	ug/L	97
29) Cyclohexane	5.55	56	10408	2.229	ug/L	100
30) 1,1,1-Trichloroethane	5.45	97	10769m	2.202	ug/L	
31) Carbon tetrachloride	5.76	117	9092	2.164	ug/L	98
33) Benzene	6.12	78	26841	2.305	ug/L	100
34) Trichloroethene	7.19	95	7377	2.321	ug/L	96
35) Methylcyclohexane	7.44	83	10907	2.168	ug/L	100
37) 1,2-Dichloropropane	7.49	63	6989	2.416	ug/L	97
38) Bromodichloromethane	7.87	83	9069	2.254	ug/L	97
39) cis-1,3-Dichloropropene	8.42	75	10645	2.215	ug/L	99
40) 4-Methyl-2-pentanone	8.62	43	17094	4.832	ug/L	100
42) Toluene	8.76	91	36829	2.907	ug/L	100
44) trans-1,3-Dichloropropene	9.02	75	10940	2.337	ug/L	98
45) 1,1,2-Trichloroethane	9.20	97	6741	2.372	ug/L	96
46) Tetrachloroethene	9.32	164	5373	2.241	ug/L	97
48) 2-Hexanone	9.48	43	16380	5.876	ug/L	95
49) Dibromochloromethane	9.56	129	6367	2.048	ug/L	94
50) 1,2-Dibromoethane	9.65	107	6974	2.347	ug/L	96
51) Chlorobenzene	10.12	112	18616	2.363	ug/L	96
52) Ethylbenzene	10.23	91	31322	2.287	ug/L	99
53) m,p-Xylene	10.34	106	11665	2.267	ug/L	93
54) o-Xylene	10.68	106	10945	2.197	ug/L	98
55) Styrene	10.70	104	17285	2.057	ug/L	97
57) 1,1,2,2-Tetrachloroethane	11.25	83	9678	2.485	ug/L #	95
59) Bromoform	10.84	173	4010	2.051	ug/L	98
60) Isopropylbenzene	11.00	105	29222	2.385	ug/L	98
61) 1,2,3-Trichloropropane	11.28	75	7926	2.578	ug/L	99
62) 1,3,5-Trimethylbenzene	11.49	105	22662	2.249	ug/L	96
63) 1,2,4-Trimethylbenzene	11.79	105	21967	2.304	ug/L	98
64) 1,3-Dichlorobenzene	12.01	146	12241	2.314	ug/L	98
65) 1,4-Dichlorobenzene	12.08	146	12435	2.317	ug/L	94
67) 1,2-Dichlorobenzene	12.37	146	12296	2.401	ug/L	93
68) 1,2-Dibromo-3-chloropropan	12.98	75	1774	2.119	ug/L	94
69) 1,3,5-Trichlorobenzene	13.15	180	8335	2.250	ug/L	94
70) 1,2,4-trichlorobenzene	13.63	180	7492	2.194	ug/L	99
71) Naphthalene	13.82	128	23047	2.088	ug/L	99
72) 1,2,3-Trichlorobenzene	14.00	180	7470	2.236	ug/L	99

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

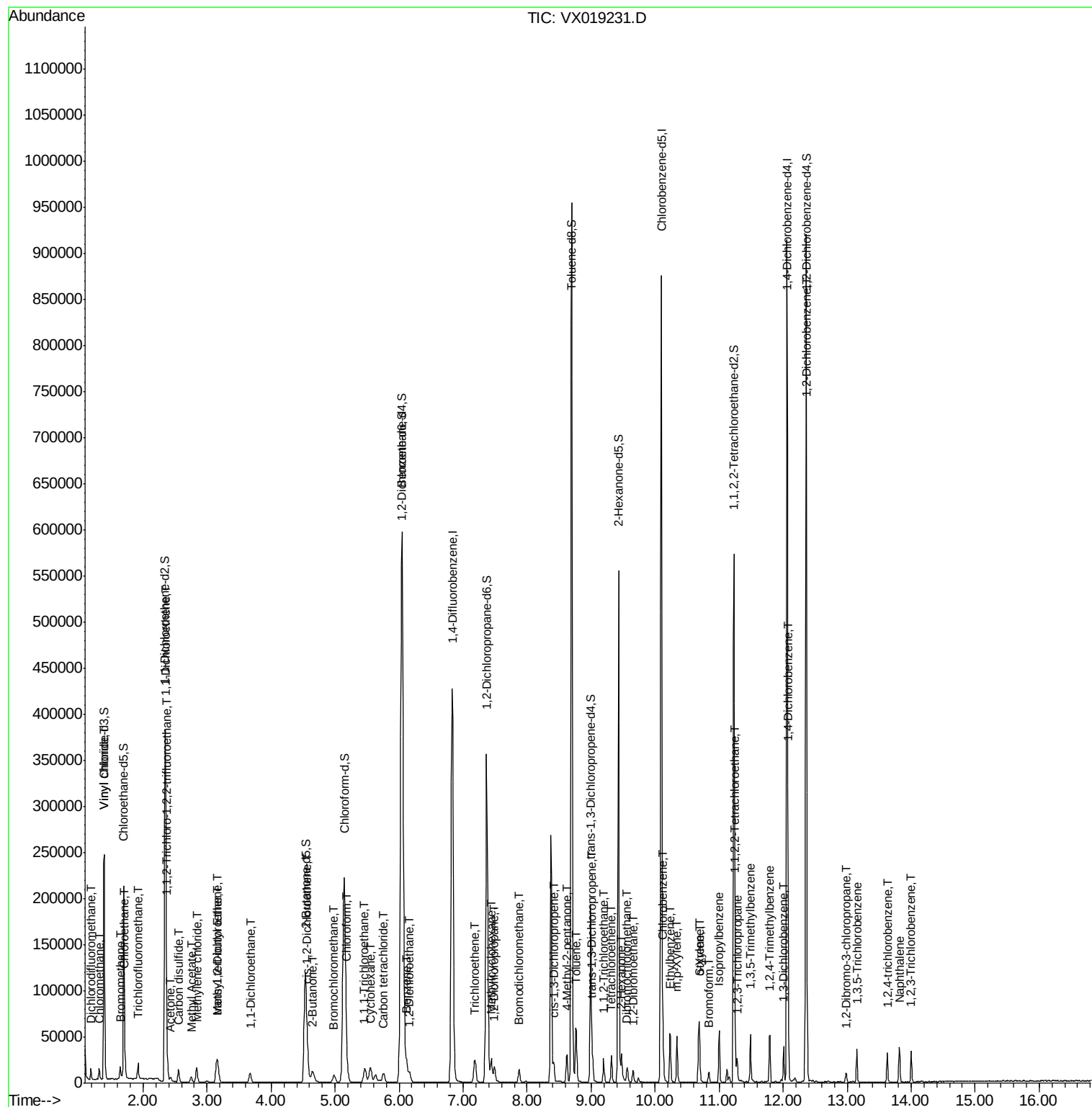
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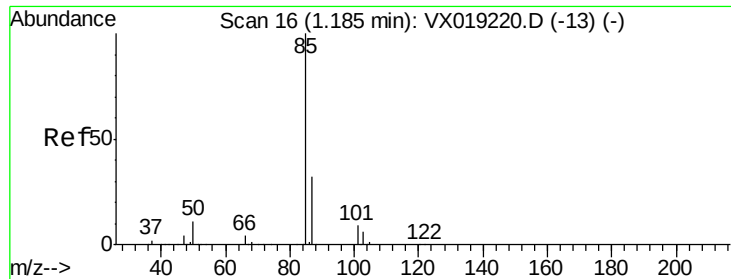
Instrument :
MSVOA_X
ClientSampleID :
MDL-ME-SOIL-04

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Quant Title : VOC Analysis
QLast Update : Wed Nov 04 01:20:42 2020
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.263 ug/L

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 85 Resp: 6288

Ion Ratio Lower Upper

85 100

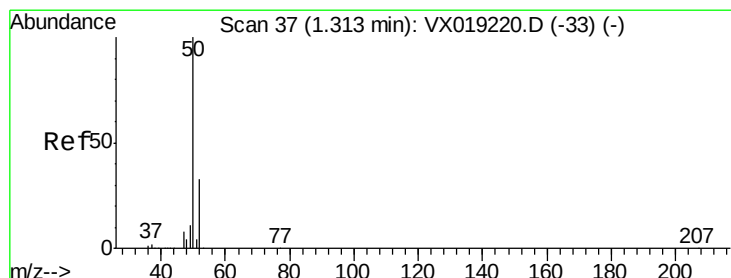
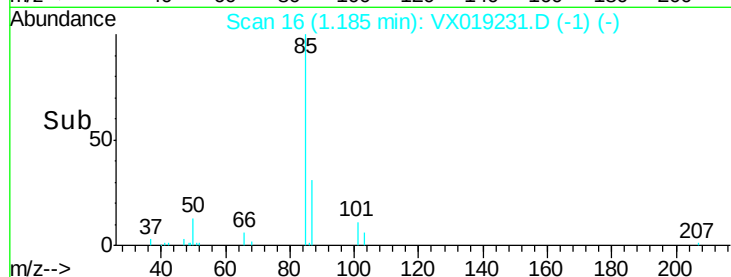
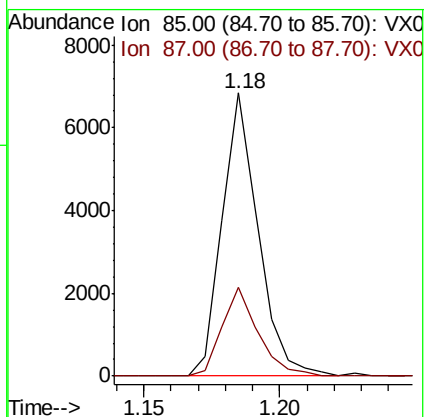
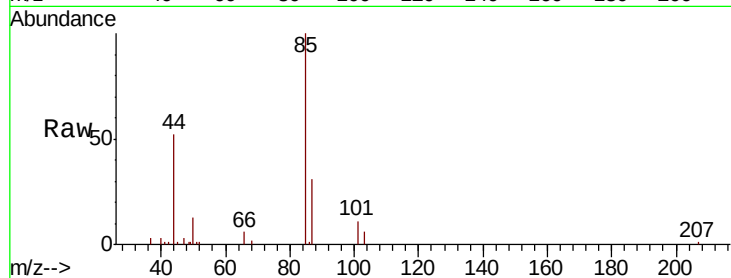
87 31.6 25.8 38.8

Manual Integrations

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#3

Chloromethane

Concen: 2.454 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019231.D

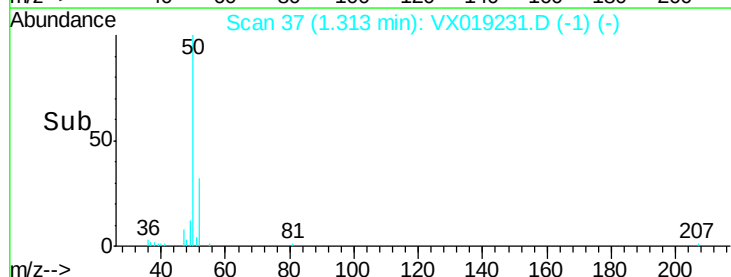
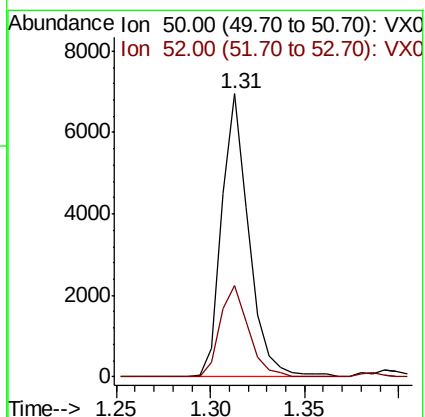
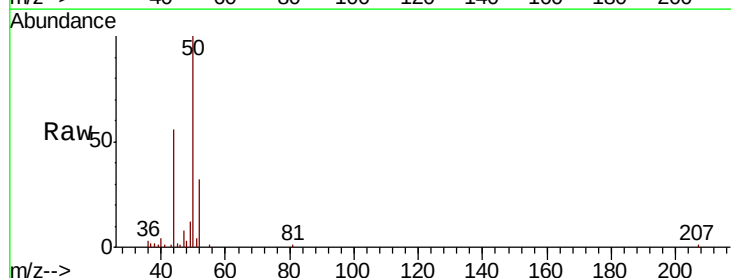
Acq: 03 Nov 2020 13:47

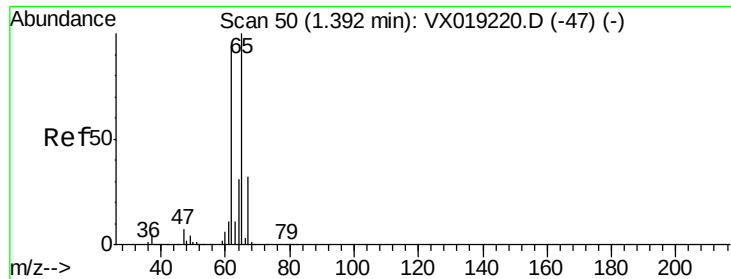
Tgt Ion: 50 Resp: 6927

Ion Ratio Lower Upper

50 100

52 32.1 22.8 42.4





#5

Vinyl chloride

Concen: 2.551 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 62 Resp: 8115

Ion Ratio Lower Upper

62 100

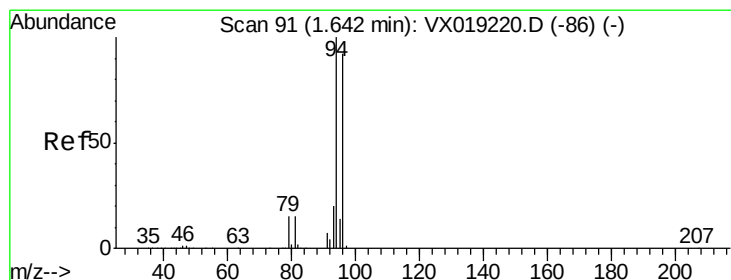
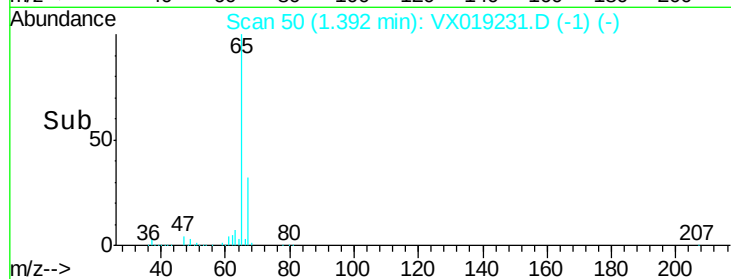
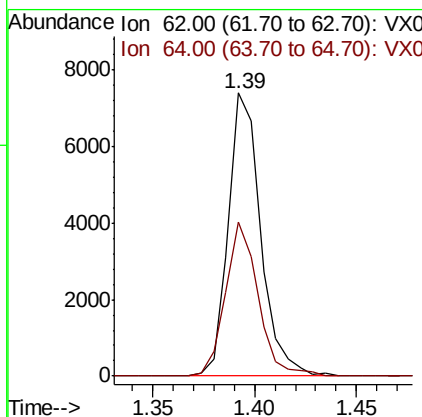
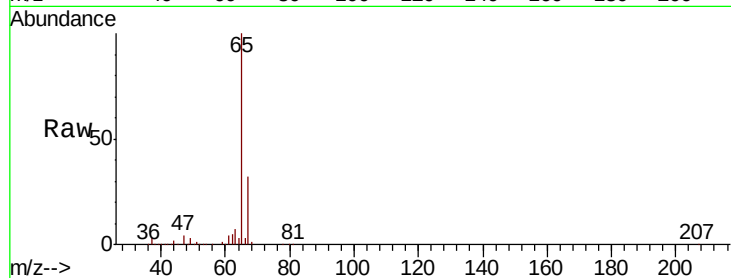
64 54.6 23.4 43.6#

Manual Integrations

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#6

Bromomethane

Concen: 2.547 ug/L

RT: 1.64 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX019231.D

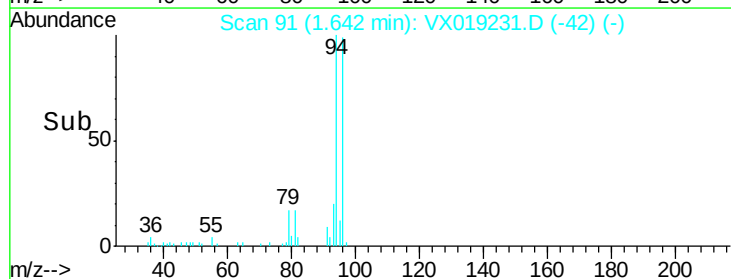
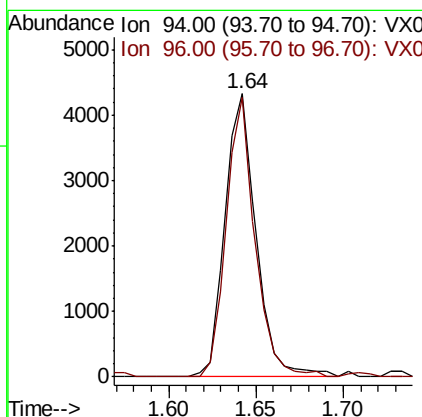
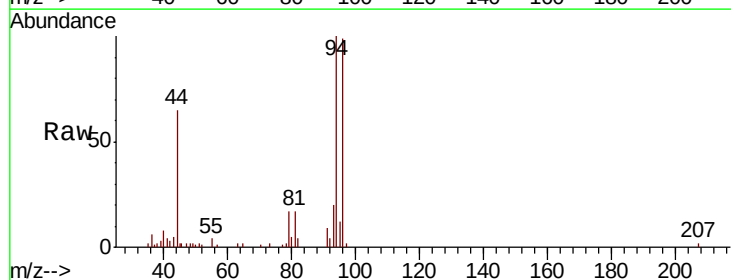
Acq: 03 Nov 2020 13:47

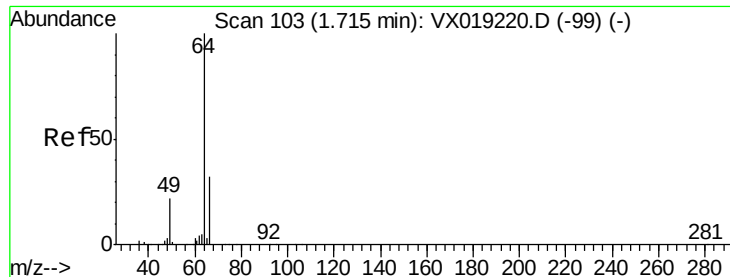
Tgt Ion: 94 Resp: 5354

Ion Ratio Lower Upper

94 100

96 98.8 66.0 122.6





#8

Chloroethane

Concen: 2.443 ug/L

RT: 1.72 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 64 Resp: 4844

Ion Ratio Lower Upper

64 100

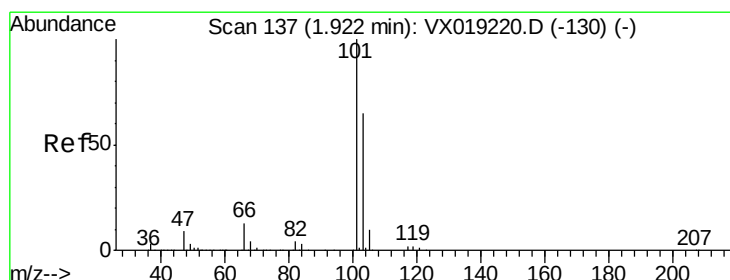
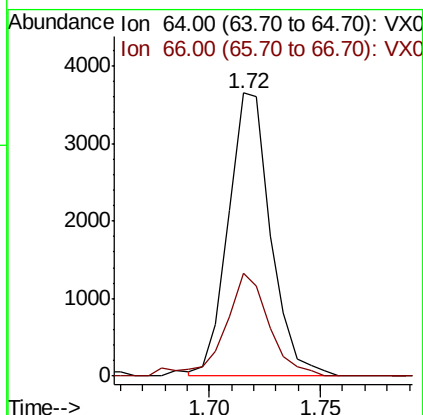
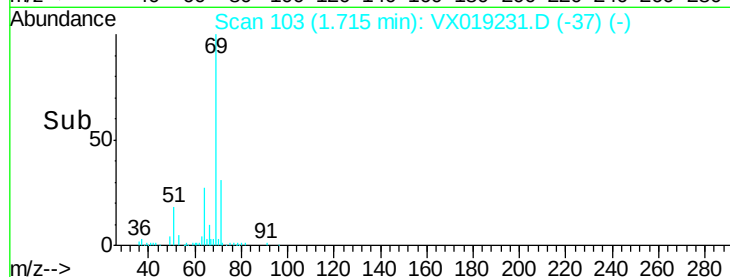
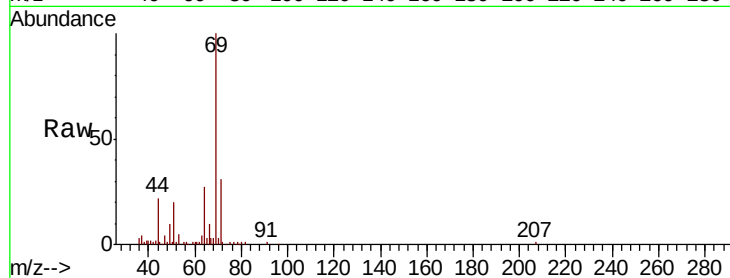
66 36.3 22.5 41.9

Manual Integrations

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#9

Trichlorofluoromethane

Concen: 2.294 ug/L

RT: 1.92 min Scan# 137

Delta R.T. 0.00 min

Lab File: VX019231.D

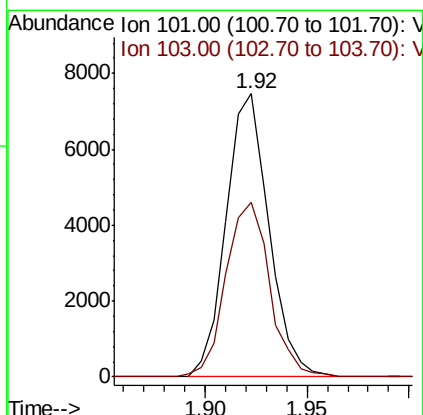
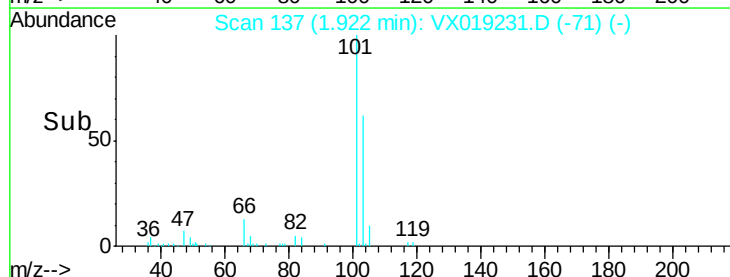
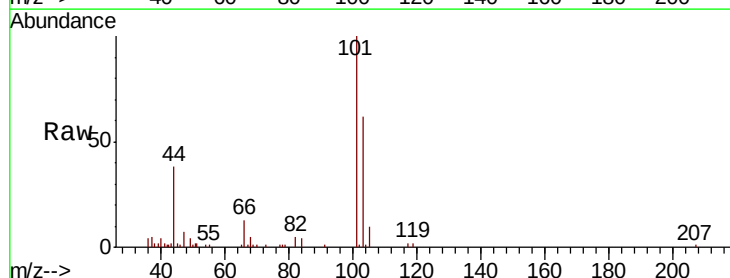
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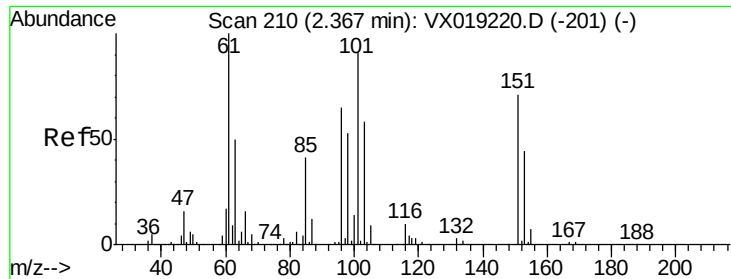
Tgt Ion: 101 Resp: 10829

Ion Ratio Lower Upper

101 100

103 63.2 51.3 76.9





#10

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

Concen: 2.916 ug/L

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

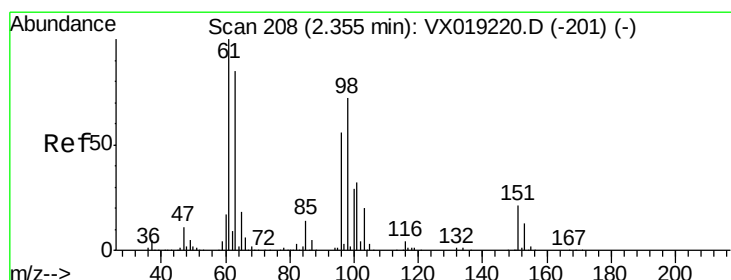
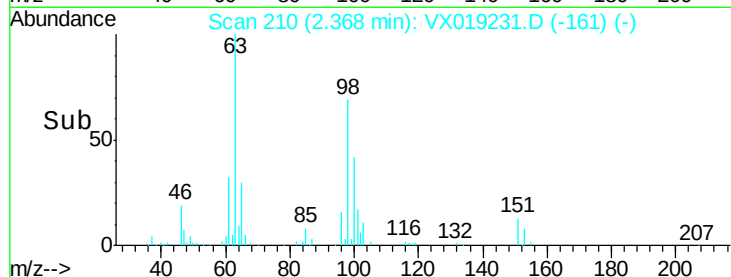
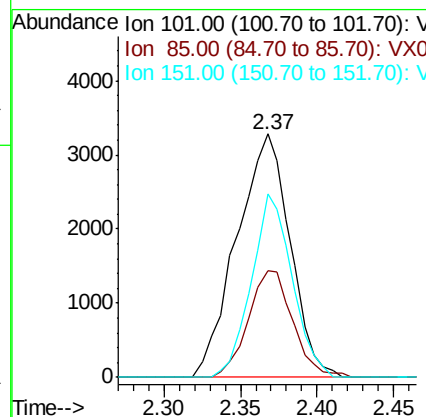
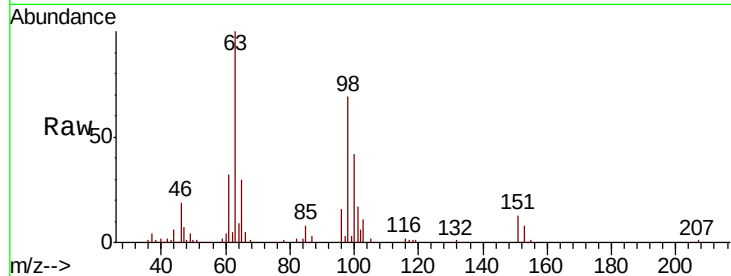
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	101	Resp:	7940
Ion Ratio	Lower	Upper	
101	100		
85	36.4	35.0	52.4
151	57.5	59.9	89.9#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 2.816 ug/L

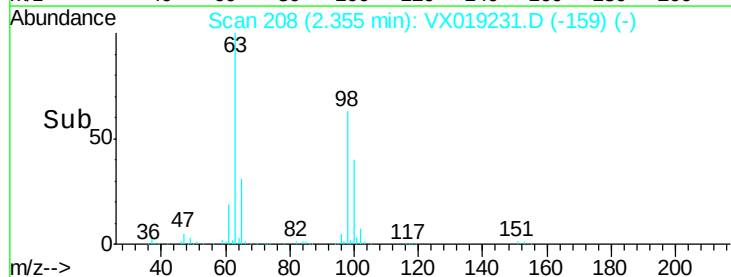
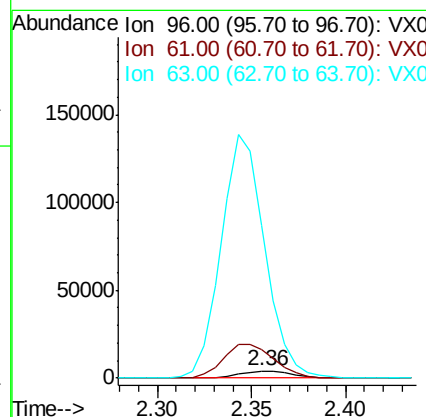
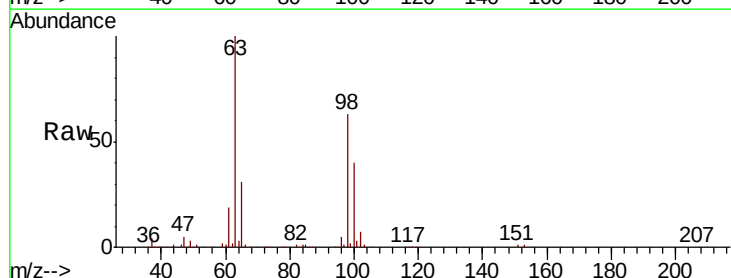
RT: 2.36 min Scan# 208

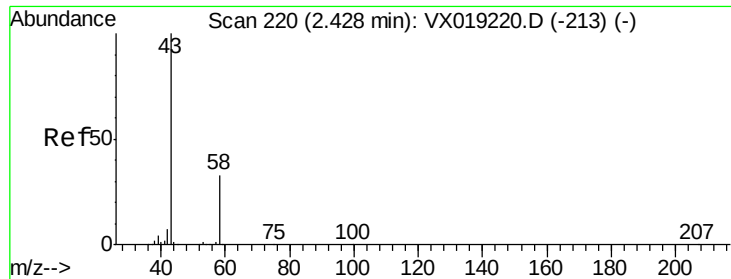
Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Tgt Ion:	96	Resp:	7440
Ion Ratio	Lower	Upper	
96	100		
61	384.8	115.1	213.8#
63	2079.5	78.3	145.5#





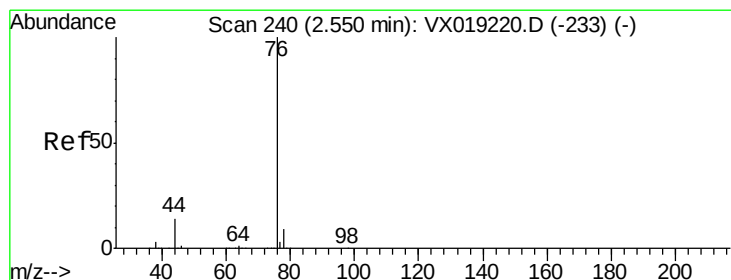
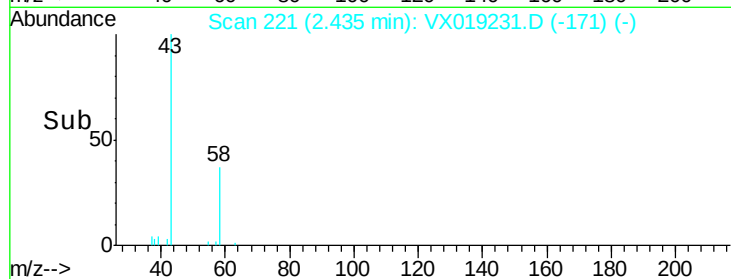
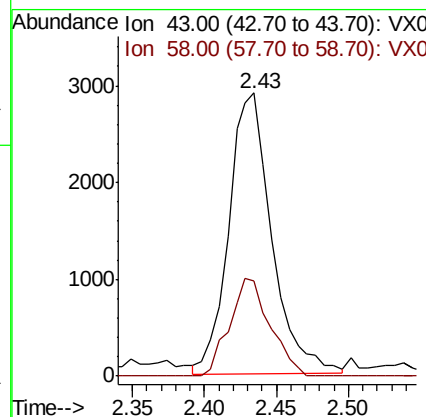
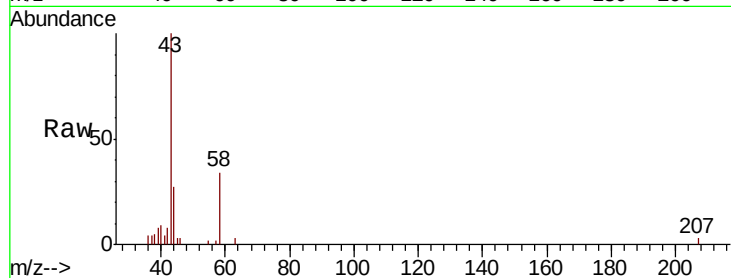
#13
Acetone
Concen: 5.069 ug/L
RT: 2.43 min Scan# 221
Delta R.T. 0.01 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
43	100		
58	32.8	0.0	64.6

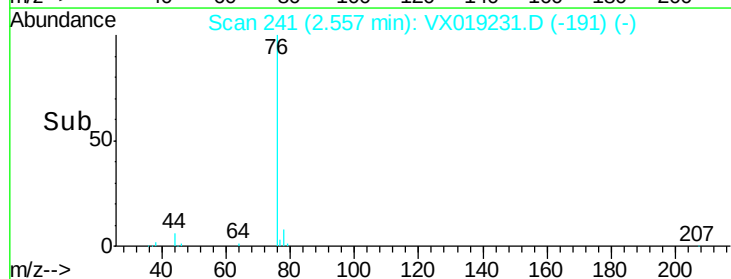
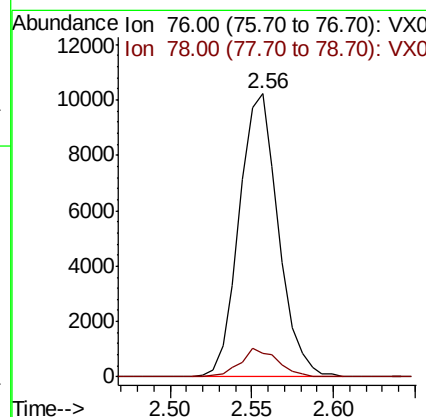
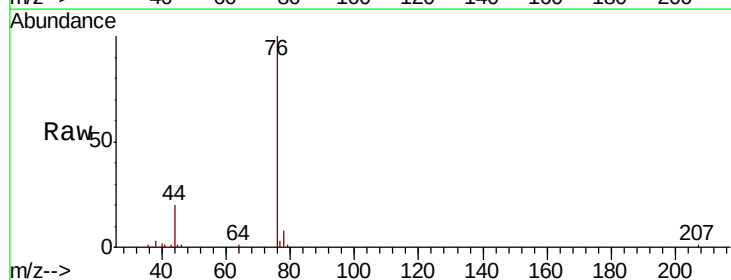
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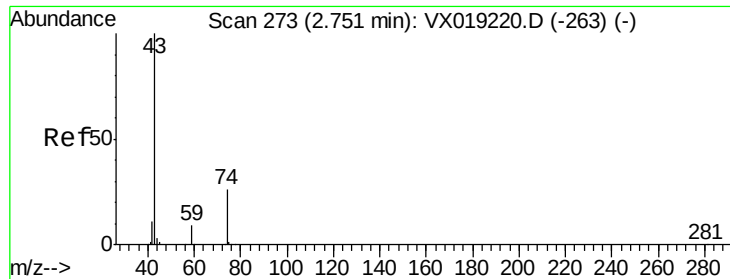
MMDadoda
11/5/2020 10:35:40 AM



#14
Carbon disulfide
Concen: 2.145 ug/L
RT: 2.56 min Scan# 241
Delta R.T. 0.01 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.2	7.1	10.7





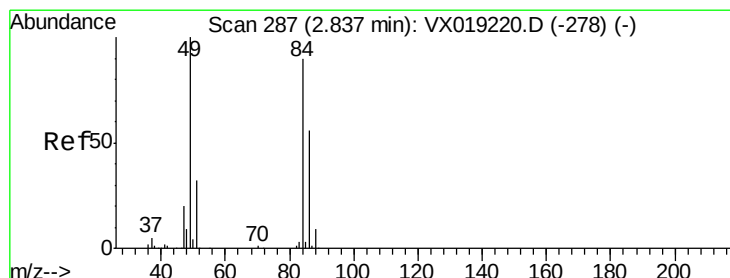
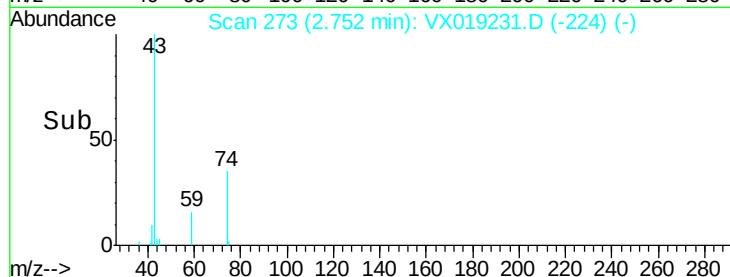
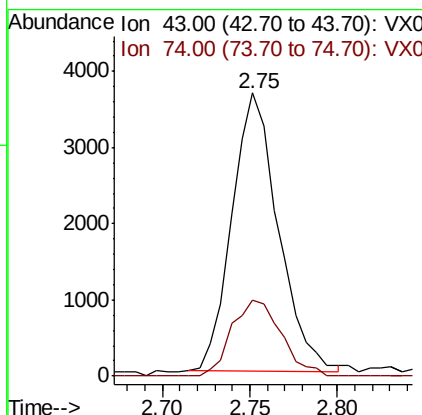
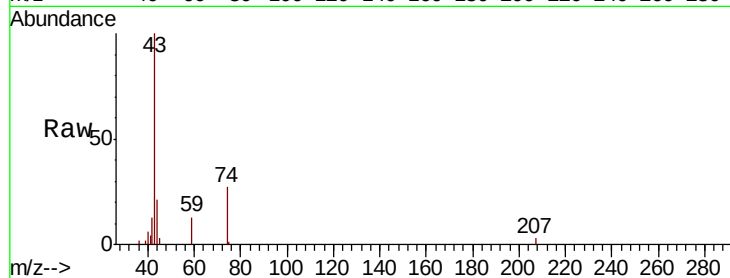
#15
Methvl Acetate
Concen: 2.591 ug/L
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
43	100		
74	29.2	21.8	32.8

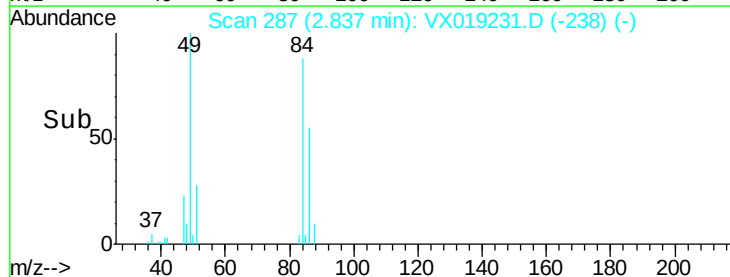
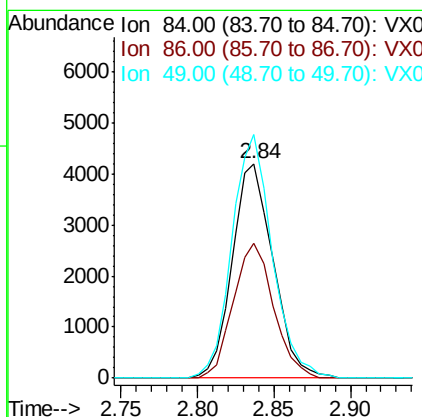
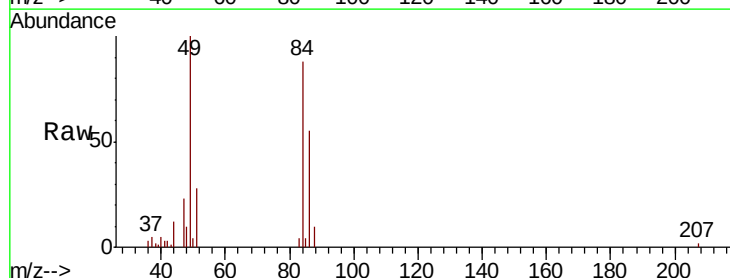
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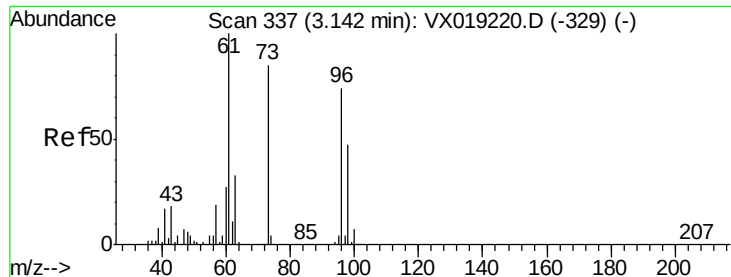
MMDadoda
11/5/2020 10:35:40 AM



#16
Methylene chloride
Concen: 2.642 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion	Ratio	Lower	Upper
84	100		
86	62.6	44.0	81.6
49	113.5	80.6	149.6





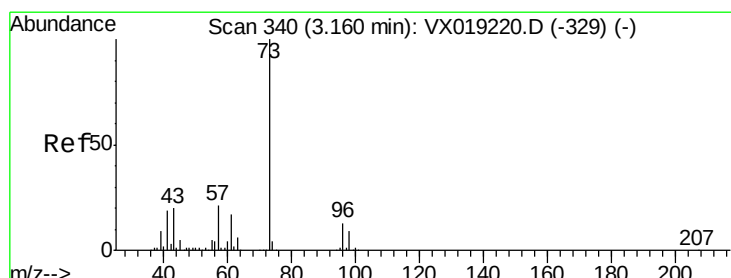
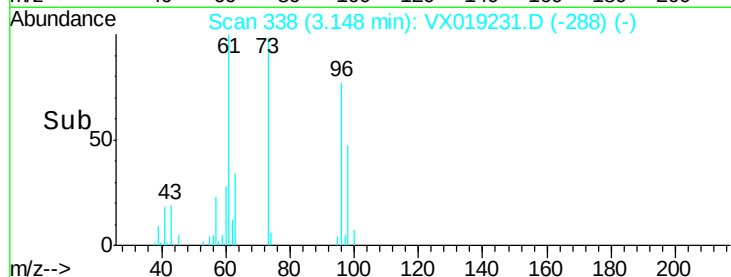
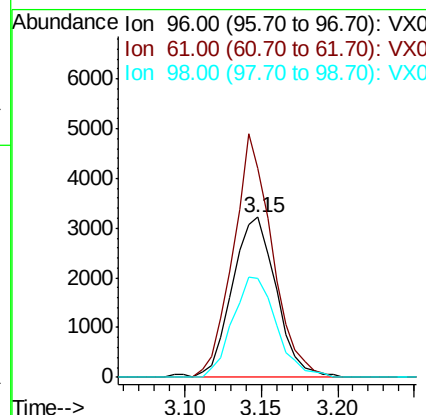
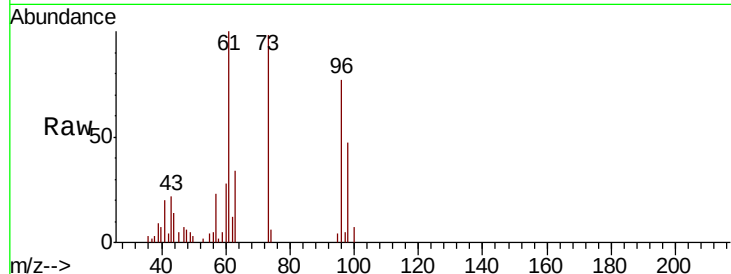
#17
trans-1,2-Dichloroethene
Concen: 2.259 ug/L
RT: 3.15 min Scan# 338
Delta R.T. 0.01 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		6416		
61	130.7	95.7	177.7		
98	61.8	44.2	82.0		

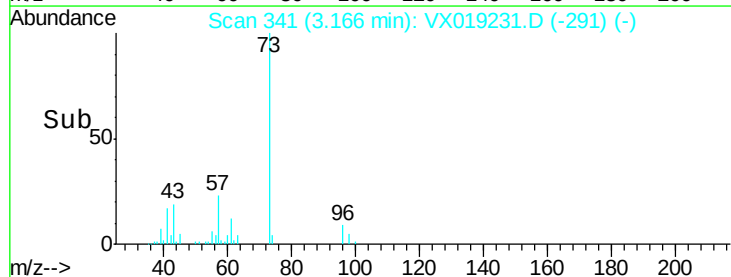
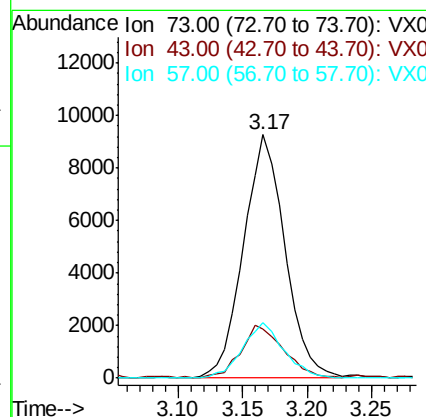
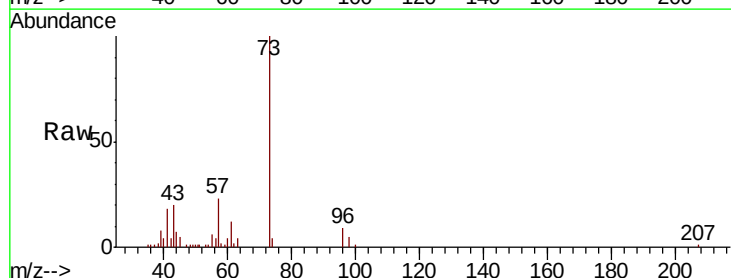
Manual Integrations
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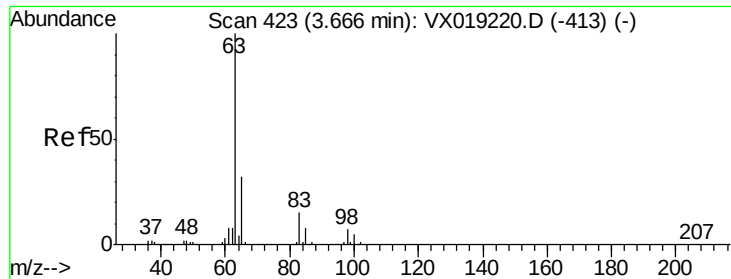
MMDadoda
11/5/2020 10:35:40 AM



#18
Methyl tert-butyl Ether
Concen: 2.306 ug/L
RT: 3.17 min Scan# 341
Delta R.T. 0.01 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
73	100		20701		
43	22.4	15.8	23.6		
57	22.8	17.0	25.4		





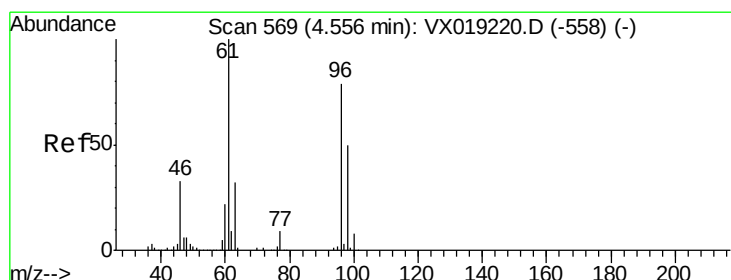
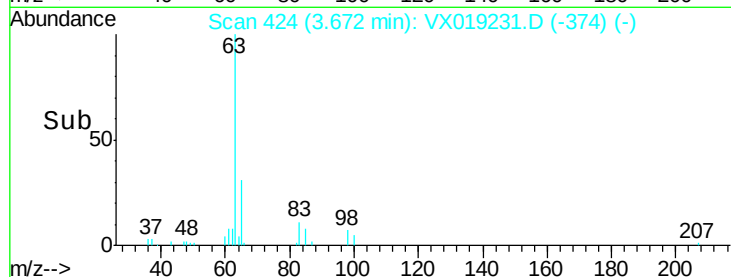
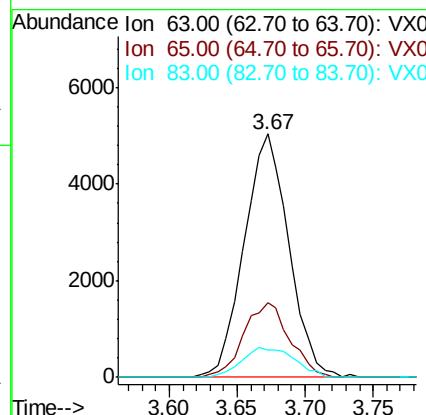
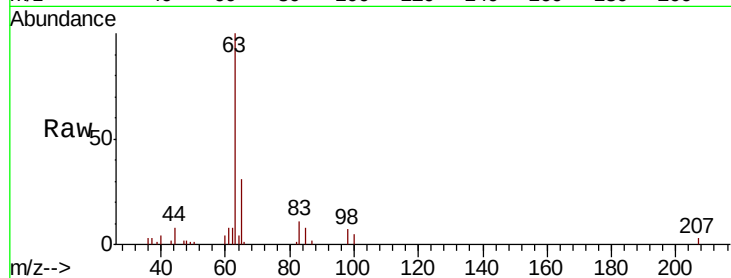
#19
 1,1-Dichloroethane
 Concen: 2.289 ug/L
 RT: 3.67 min Scan# 424
 Delta R.T. 0.01 min
 Lab File: VX019231.D
 Acq: 03 Nov 2020 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion:	63	Resp:	11551
Ion Ratio	Lower	Upper	
63	100		
65	30.7	22.3	41.3
83	11.3	9.7	18.1

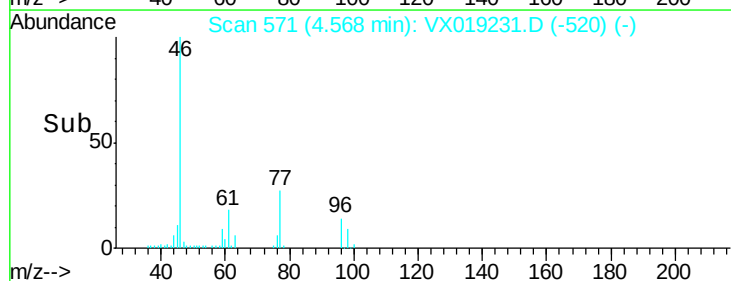
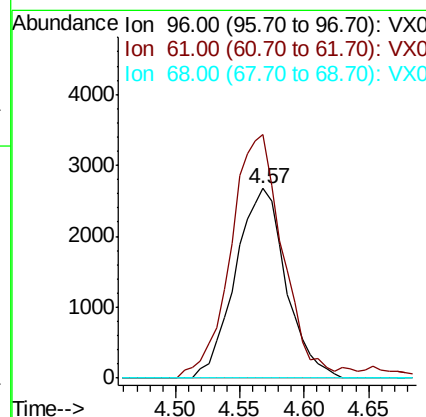
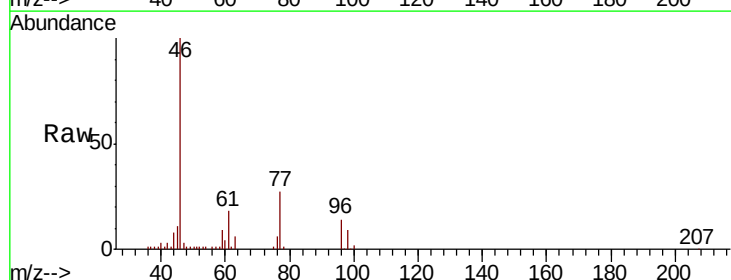
Manual Integrations
 APPROVED

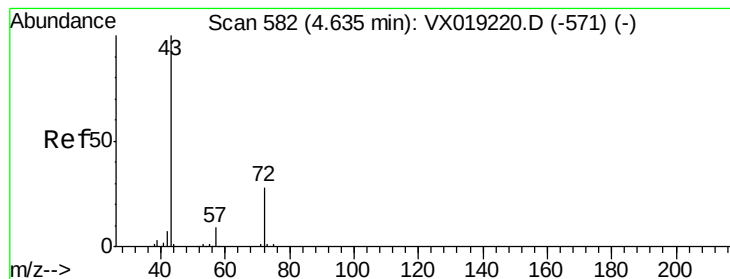
MMDadoda
 11/5/2020 10:35:40 AM



#20
 cis-1,2-Dichloroethene
 Concen: 2.332 ug/L
 RT: 4.57 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VX019231.D
 Acq: 03 Nov 2020 13:47

Tgt Ion:	96	Resp:	7276
Ion Ratio	Lower	Upper	
96	100		
61	128.6	86.1	159.9
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 4.552 ug/L

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 43 Resp: 8553

Ion Ratio Lower Upper

43 100

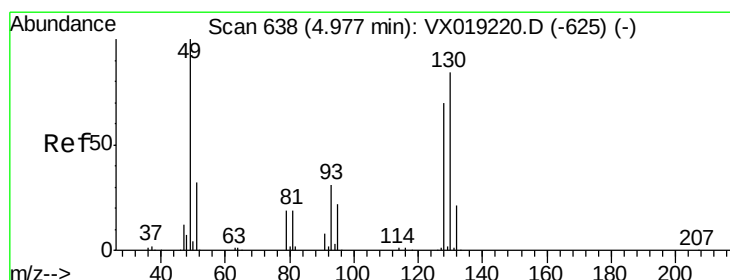
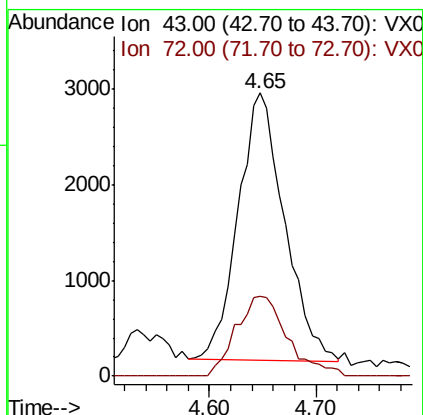
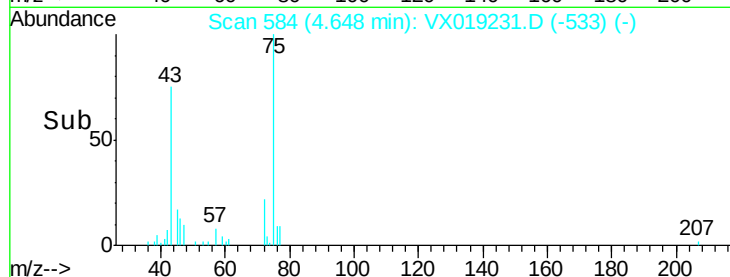
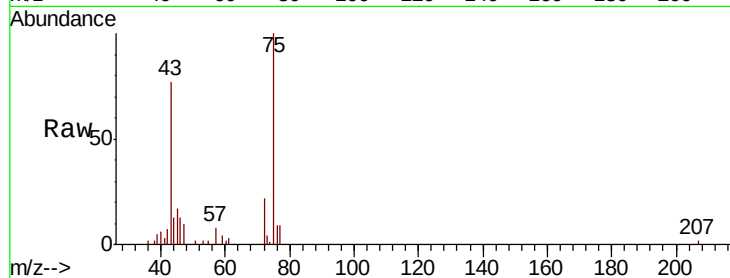
72 32.5 15.0 45.0

Manual Integrations

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MMDadoda

11/5/2020 10:35:40 AM



#23

Bromochloromethane

Concen: 2.320 ug/L

RT: 4.98 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Tgt Ion: 128 Resp: 3645

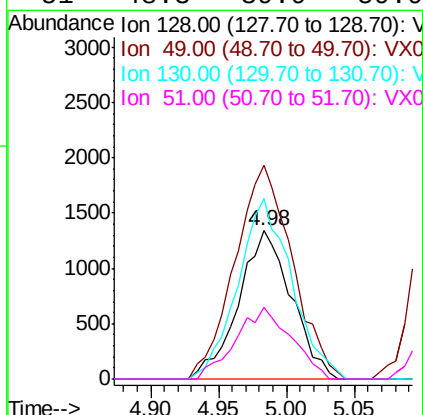
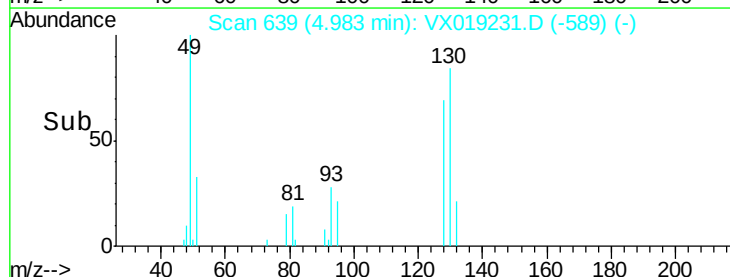
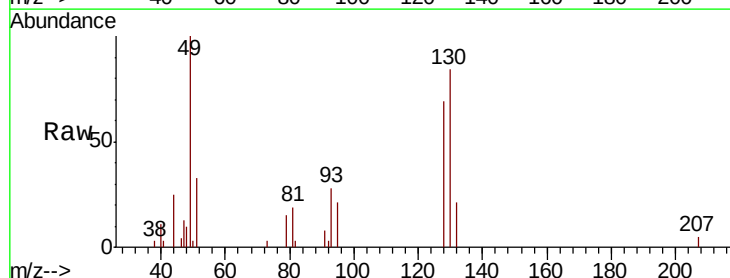
Ion Ratio Lower Upper

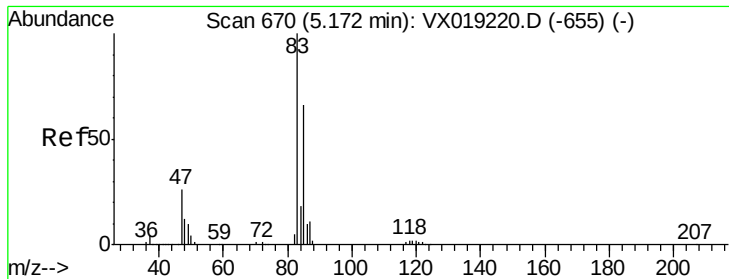
128 100

49 144.4 108.4 201.4

130 122.0 96.7 179.7

51 48.3 39.9 59.9





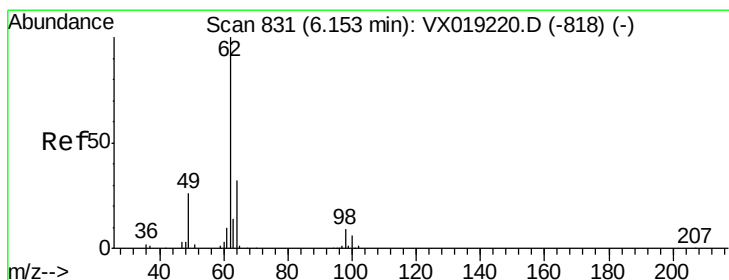
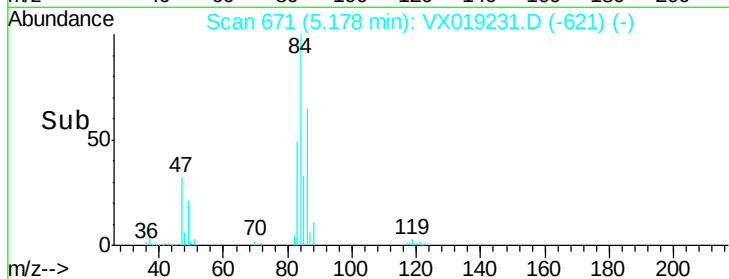
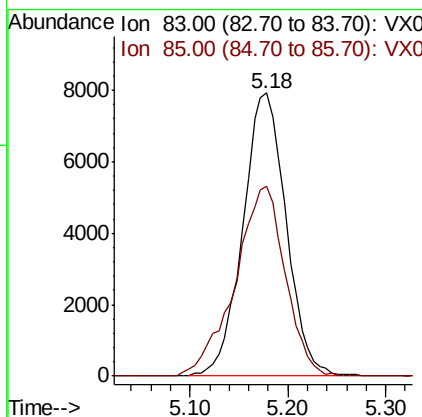
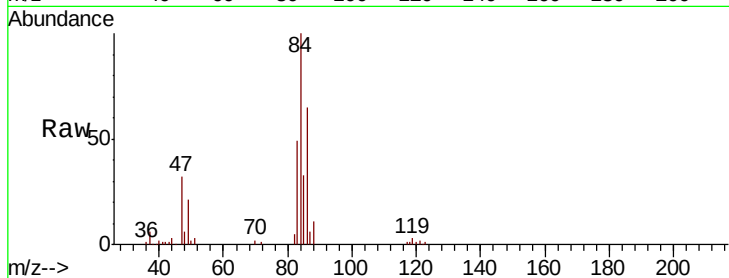
#25
Chloroform
Concen: 4.592 ug/L
RT: 5.18 min Scan# 671
Delta R.T. 0.01 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion	83	Resp	24323
Ion Ratio	100	Lower	Upper
85	66.9	46.5	86.3

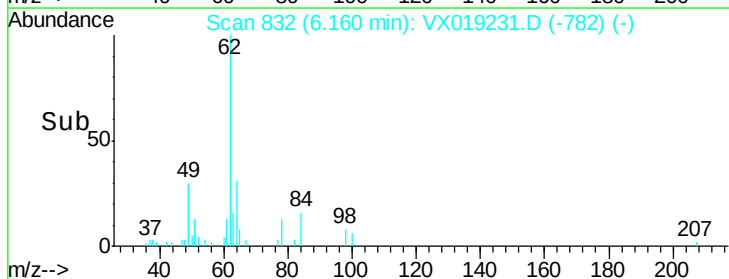
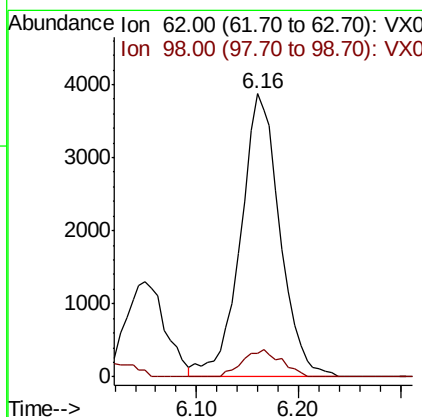
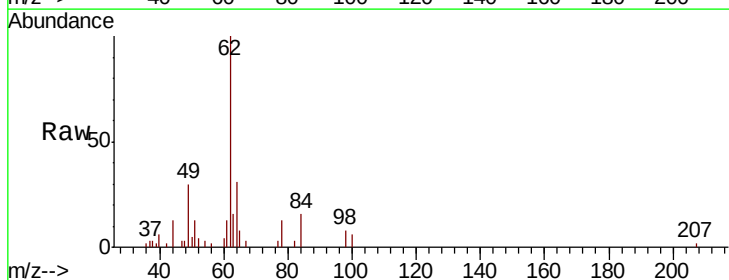
Manual Integrations
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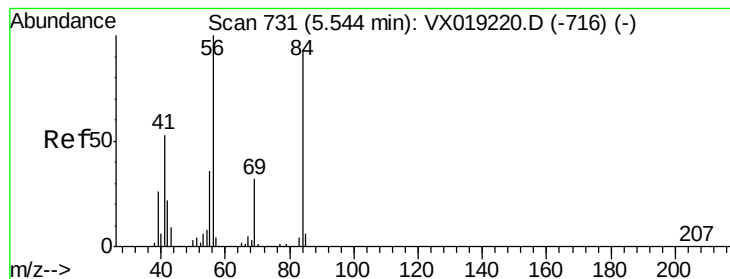
MMDadoda
11/5/2020 10:35:40 AM



#27
1,2-Dichloroethane
Concen: 2.486 ug/L
RT: 6.16 min Scan# 832
Delta R.T. 0.01 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion	62	Resp	10370
Ion Ratio	100	Lower	Upper
98	8.5	7.6	11.4





#29

Cyclohexane

Concen: 2.229 ug/L

RT: 5.55 min Scan# 732

Delta R.T. 0.01 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

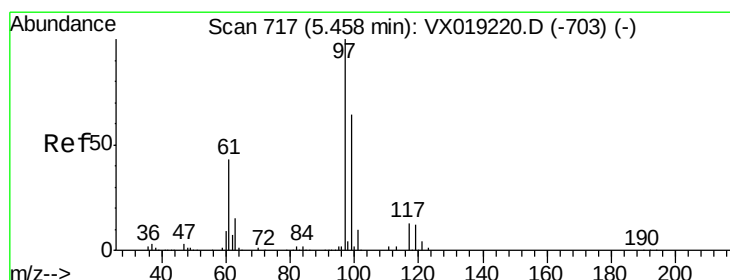
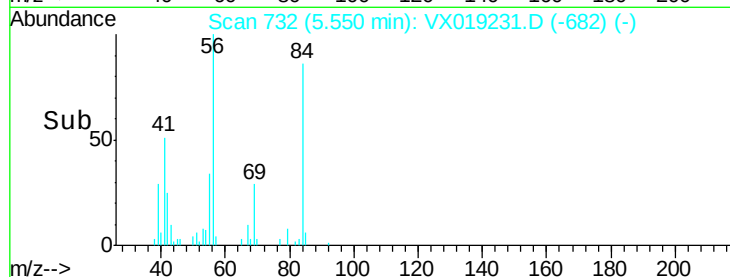
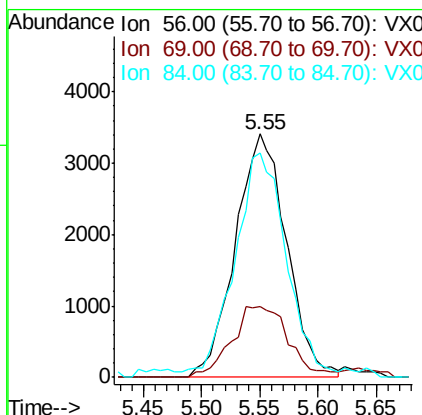
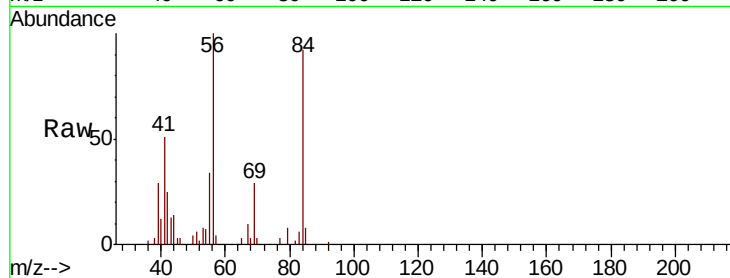
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	56	Resp:	10408
Ion Ratio	Lower	Upper	
56	100		
69	31.4	25.2	37.8
84	91.8	73.6	110.4

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11/5/2020 10:35:40 AM



#30

1,1,1-Trichloroethane

Concen: 2.202 ug/L m

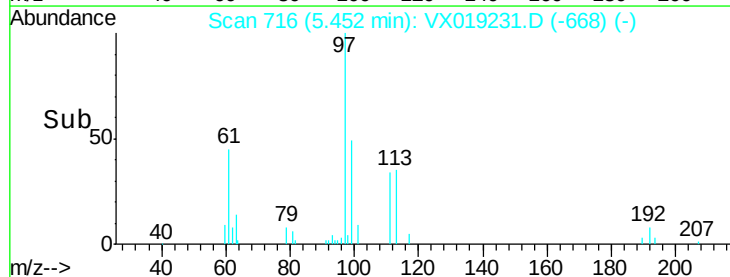
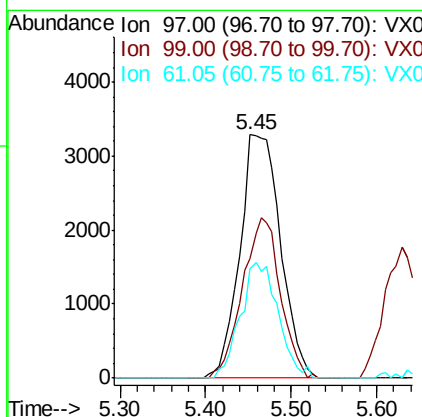
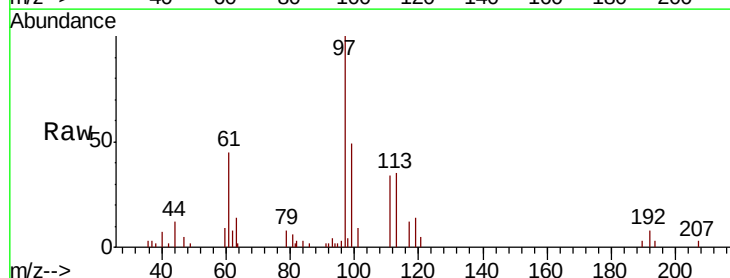
RT: 5.45 min Scan# 716

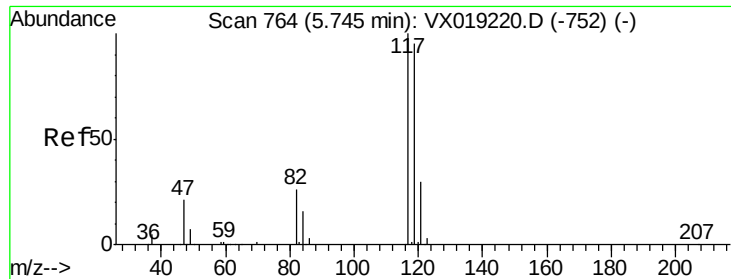
Delta R.T. -0.01 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Tgt Ion:	97	Resp:	10769
Ion Ratio	Lower	Upper	
97	100		
99	61.1	51.0	76.6
61	43.2	34.8	52.2





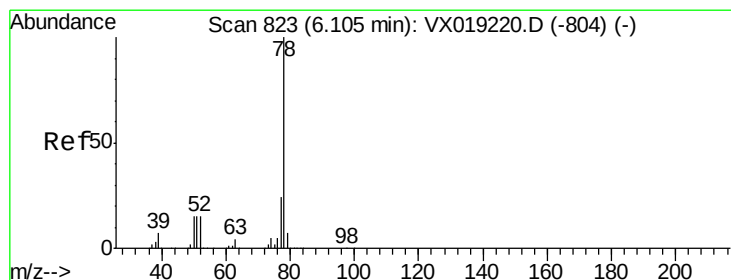
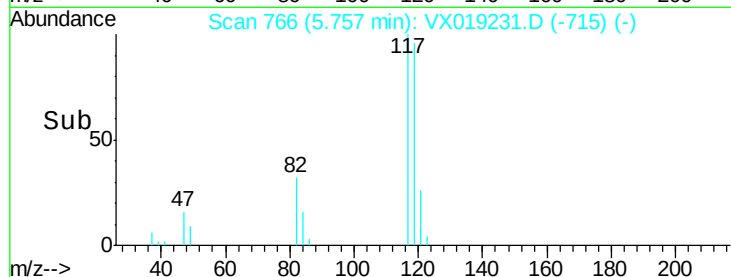
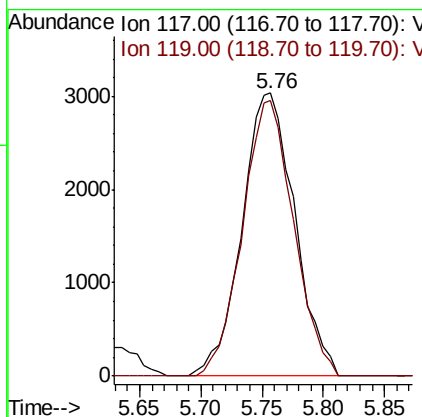
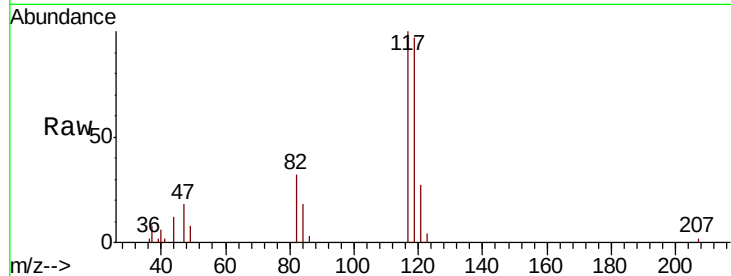
#31
Carbon tetrachloride
Concen: 2.164 ug/L
RT: 5.76 min Scan# 766
Delta R.T. 0.01 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion:117 Resp: 9092
Ion Ratio Lower Upper
117 100
119 94.3 76.9 115.3

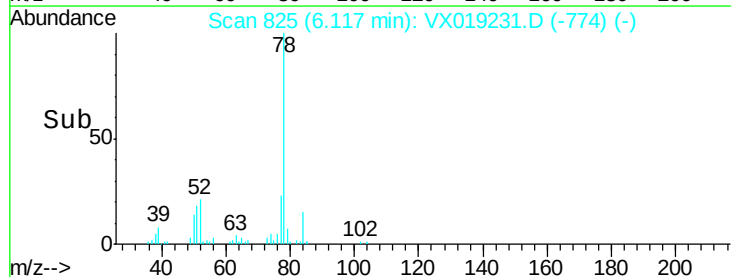
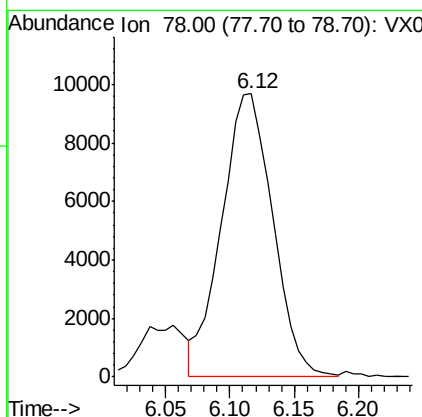
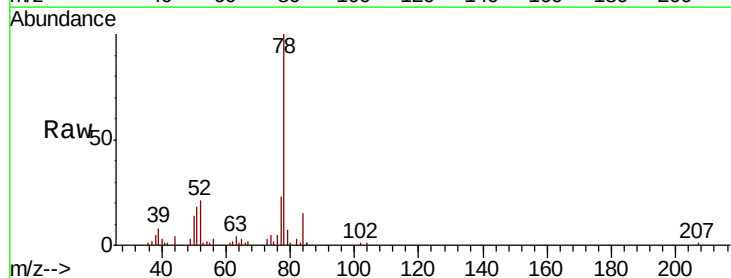
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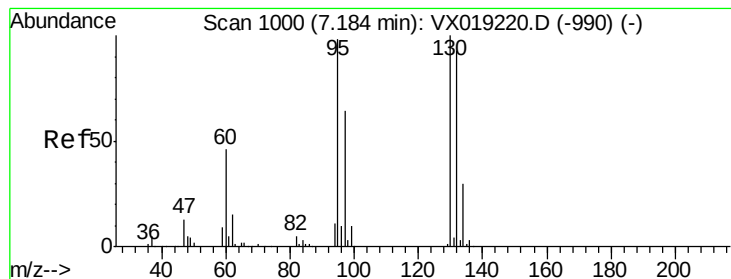
MMDadoda
11/5/2020 10:35:40 AM



#33
Benzene
Concen: 2.305 ug/L
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion: 78 Resp: 26841





#34

Trichloroethene

Concen: 2.321 ug/L

RT: 7.19 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

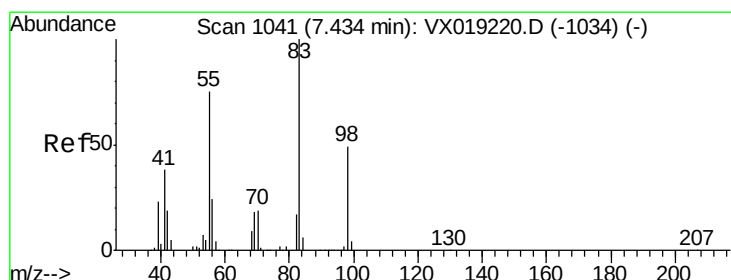
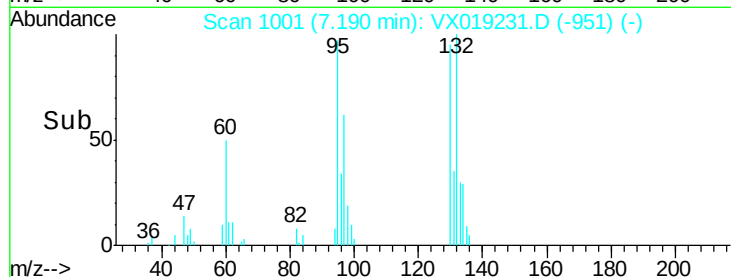
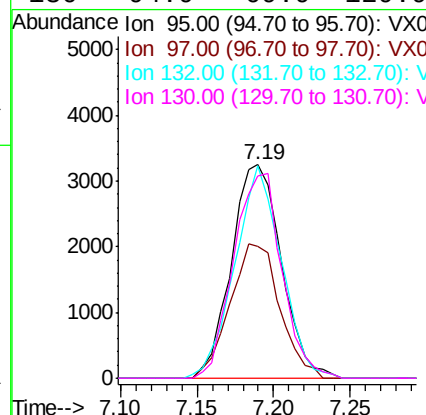
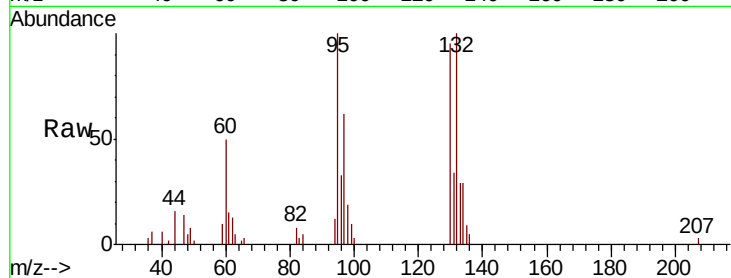
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion	95	Resp:	7377
Ion	Ratio	Lower	Upper
95	100		
97	61.5	45.1	83.9
132	99.7	67.3	124.9
130	94.9	69.9	129.9

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11/5/2020 10:35:40 AM



#35

Methylcyclohexane

Concen: 2.168 ug/L

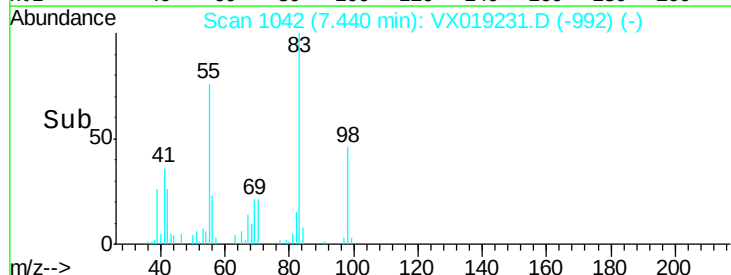
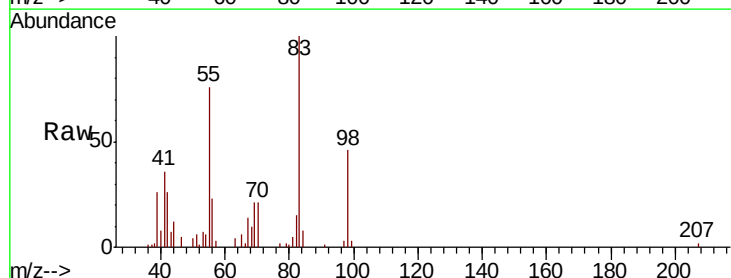
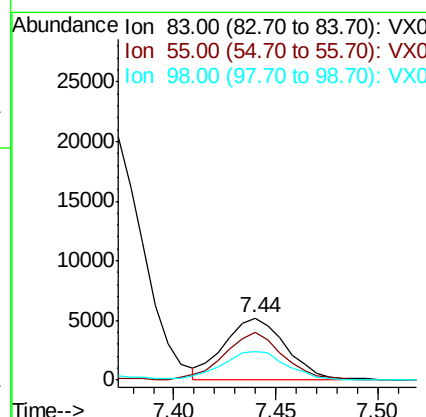
RT: 7.44 min Scan# 1042

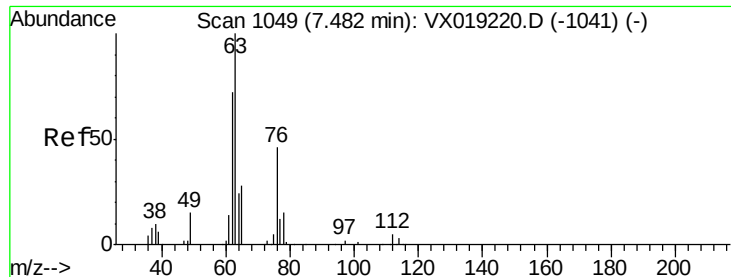
Delta R.T. 0.01 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Tgt Ion	83	Resp:	10907
Ion	Ratio	Lower	Upper
83	100		
55	73.4	58.6	87.8
98	49.0	39.0	58.6





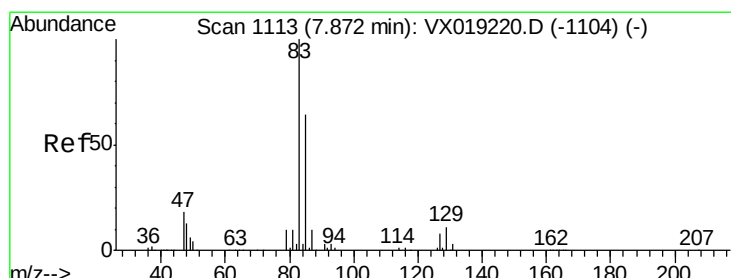
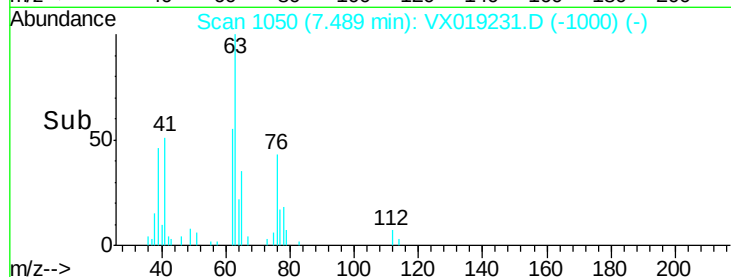
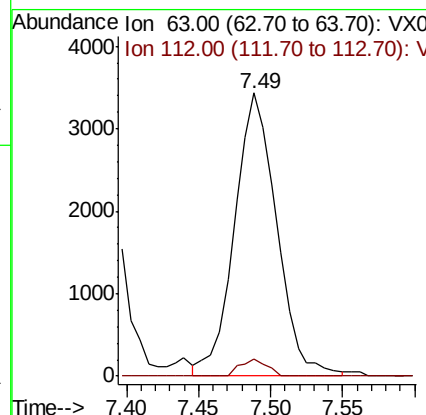
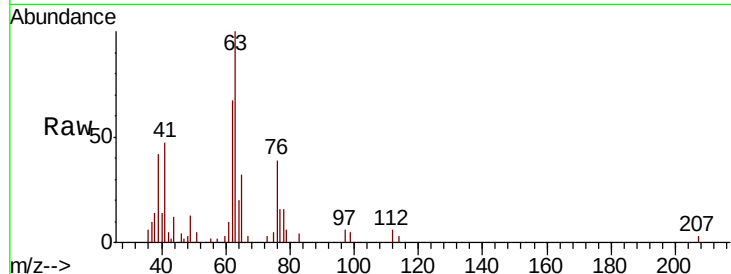
#37
 1,2-Dichloropropane
 Concen: 2.416 ug/L
 RT: 7.49 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VX019231.D
 Acq: 03 Nov 2020 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
63	100		
112	3.8	3.8	5.6

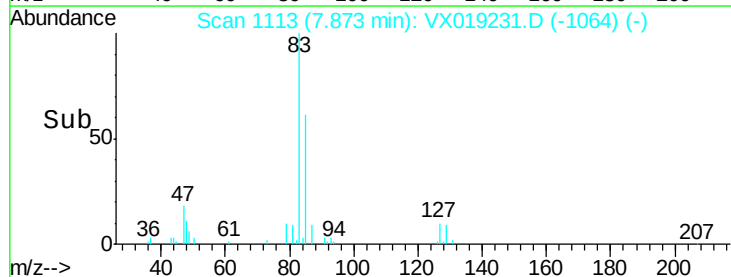
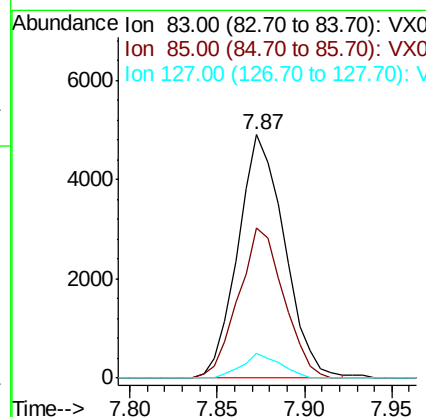
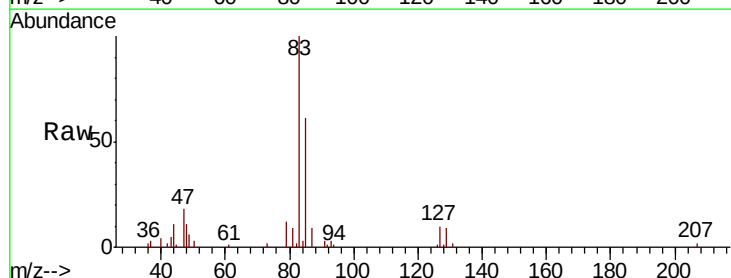
Manual Integrations
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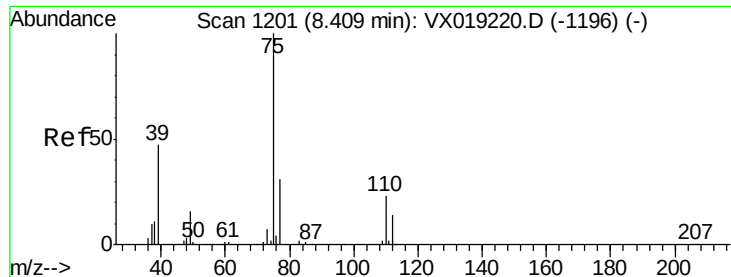
MMDadoda
 11/5/2020 10:35:40 AM



#38
 Bromodichloromethane
 Concen: 2.254 ug/L
 RT: 7.87 min Scan# 1113
 Delta R.T. 0.00 min
 Lab File: VX019231.D
 Acq: 03 Nov 2020 13:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.5	44.6	82.8
127	10.1	6.8	10.2





#39

cis-1,3-Dichloropropene

Concen: 2.215 ug/L

RT: 8.42 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

ClientSampled :

MDL-ME-SOIL-04

Tot Ion: 75 Resp: 10645

Ion Ratio Lower Upper

75 100

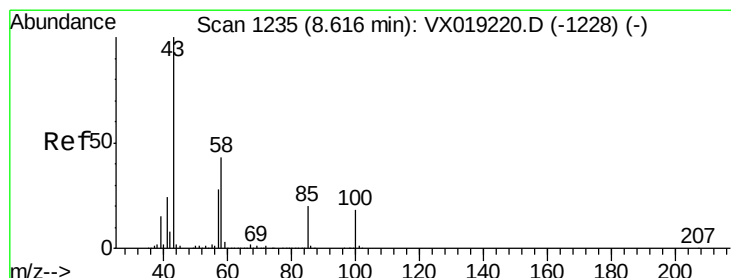
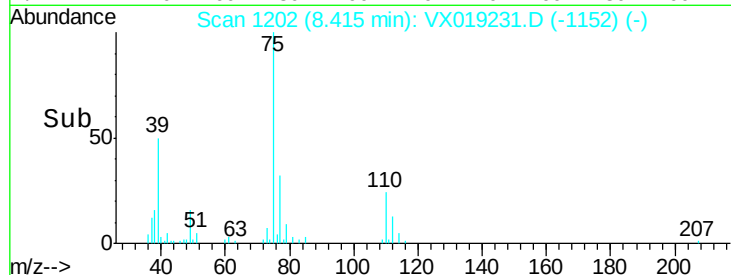
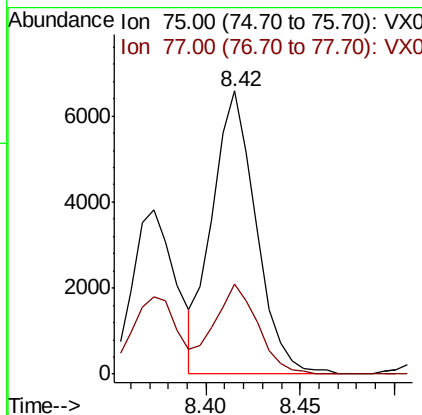
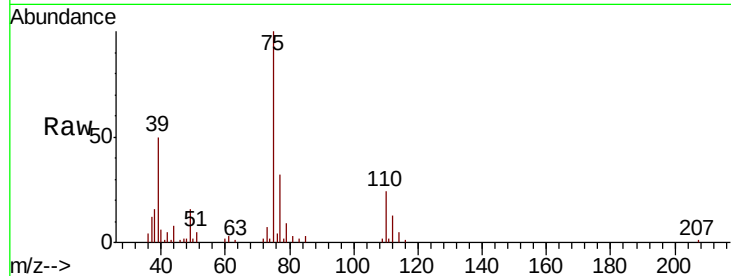
77 31.7 22.5 41.7

Manual Integrations

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MMDadoda

11/5/2020 10:35:40 AM



#40

4-Methyl-2-pentanone

Concen: 4.832 ug/L

RT: 8.62 min Scan# 1235

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

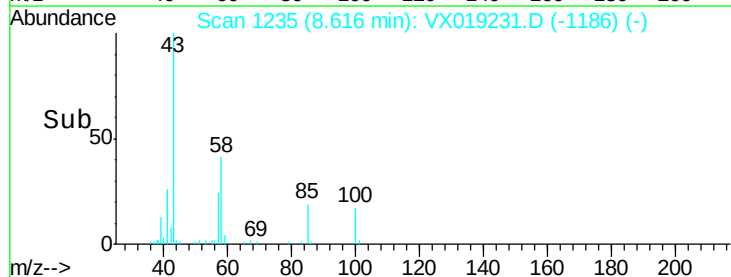
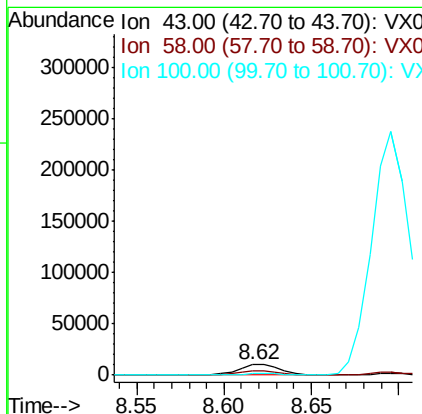
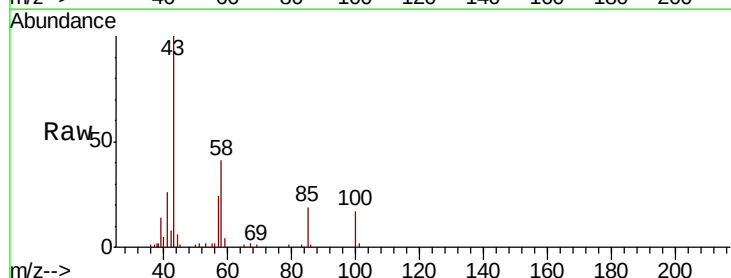
Tgt Ion: 43 Resp: 17094

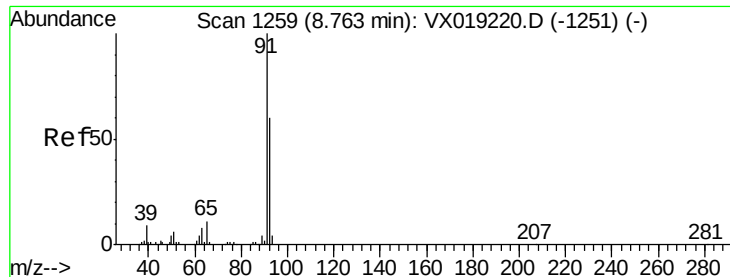
Ion Ratio Lower Upper

43 100

58 42.8 34.1 51.1

100 18.8 14.8 22.2





#42

Toluene

Concen: 2.907 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 91 Resp: 36829

Ion Ratio Lower Upper

91 100

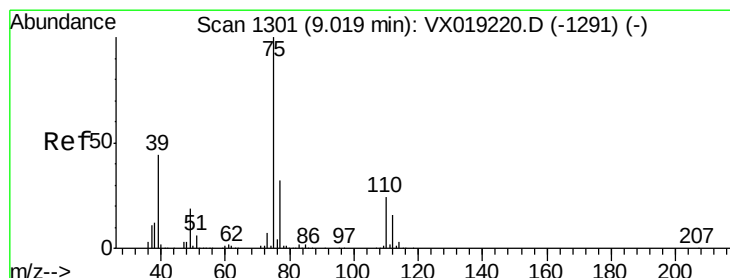
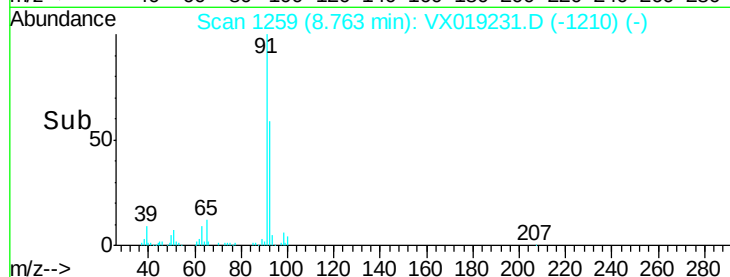
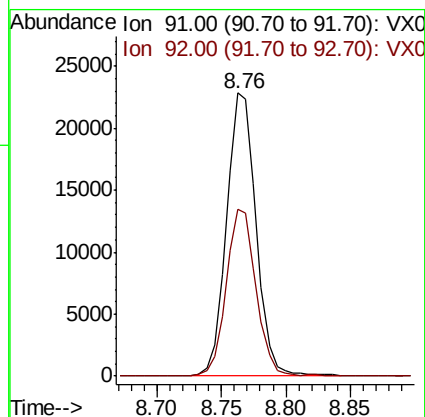
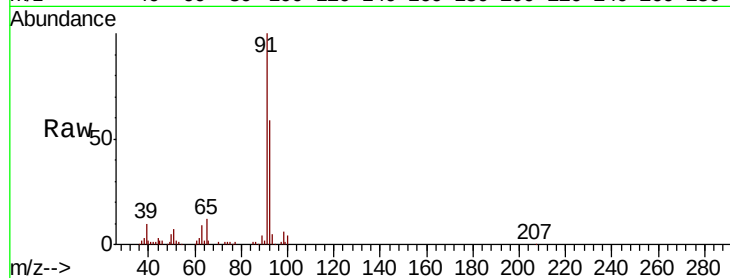
92 58.8 41.2 76.6

Manual Integrations

APPROVED

MMDadoda

11/5/2020 10:35:40 AM



#44

trans-1,3-Dichloropropene

Concen: 2.337 ug/L

RT: 9.02 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VX019231.D

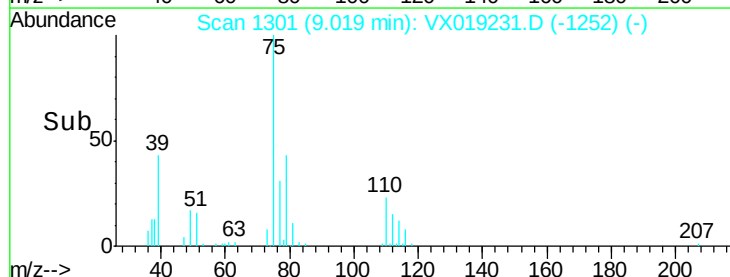
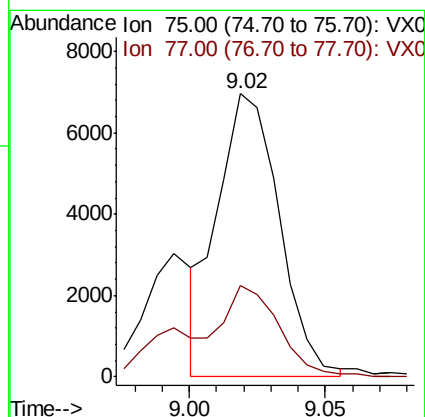
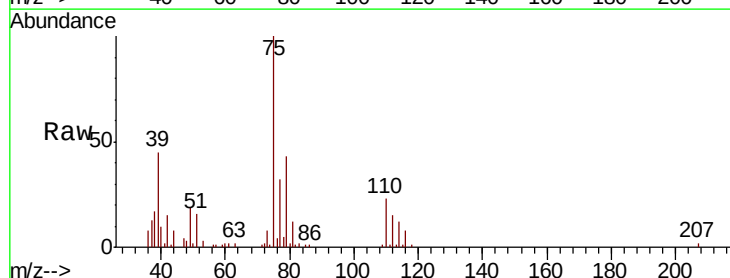
Acq: 03 Nov 2020 13:47

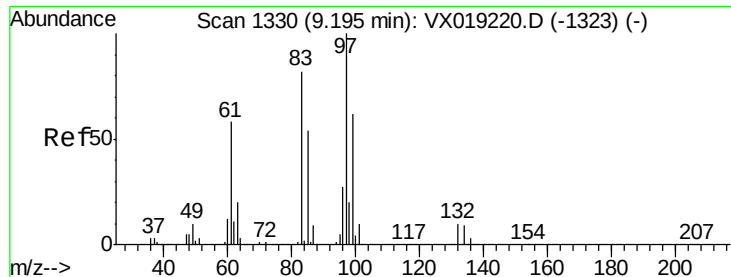
Tgt Ion: 75 Resp: 10940

Ion Ratio Lower Upper

75 100

77 32.3 21.8 40.6





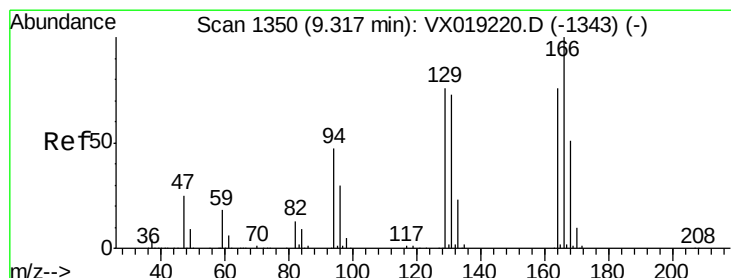
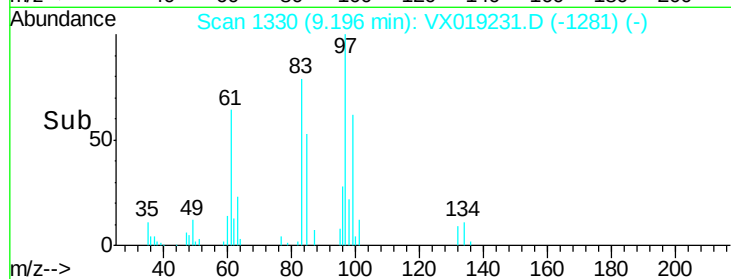
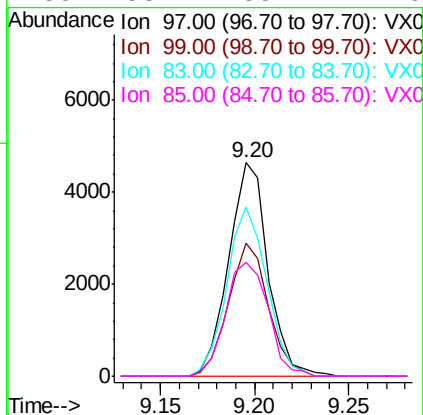
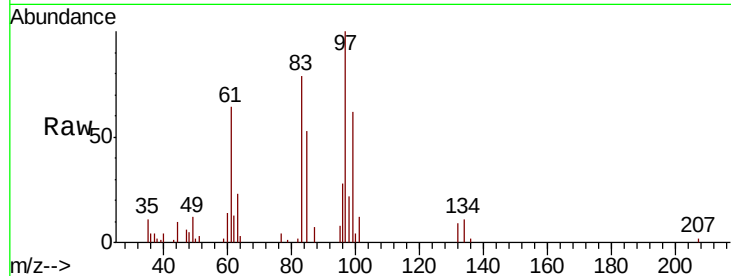
#45
1,1,2-Trichloroethane
Concen: 2.372 ug/L
RT: 9.20 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion:	97	Resp:	6741
Ion	Ratio	Lower	Upper
97	100		
99	62.3	43.3	80.3
83	78.9	59.4	110.4
85	53.1	38.7	71.9

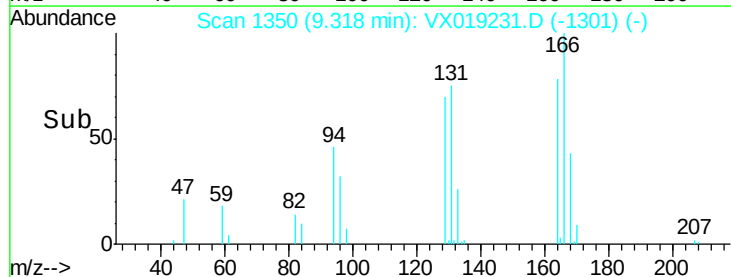
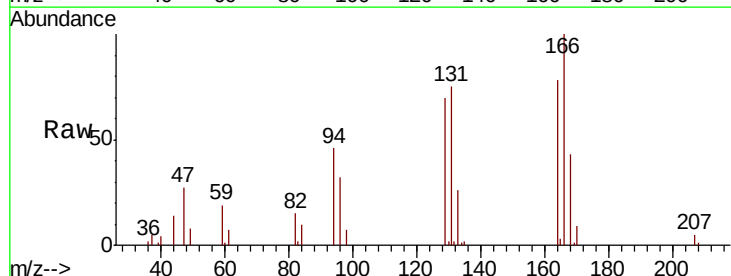
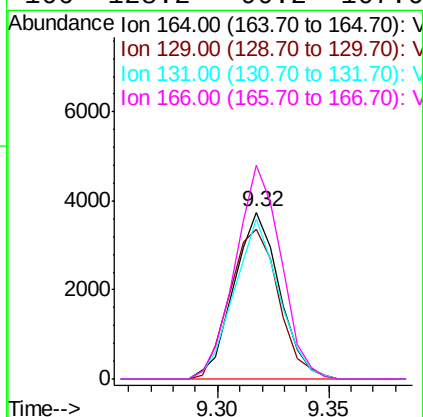
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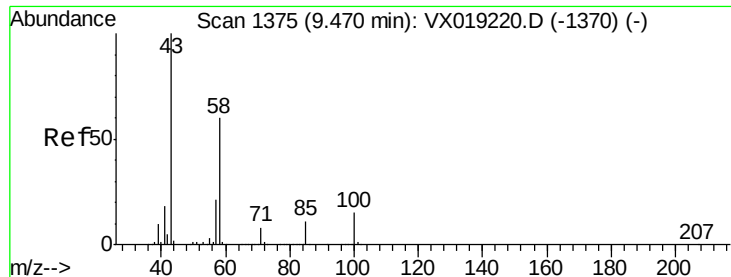
MMDadoda
11/5/2020 10:35:40 AM



#46
Tetrachloroethene
Concen: 2.241 ug/L
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion:	164	Resp:	5373
Ion	Ratio	Lower	Upper
164	100		
129	89.9	65.2	121.2
131	95.9	62.5	116.1
166	128.2	90.2	167.6





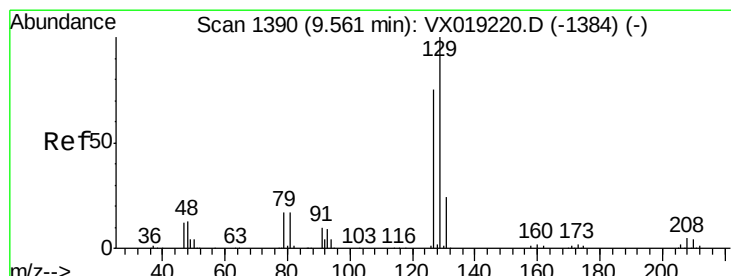
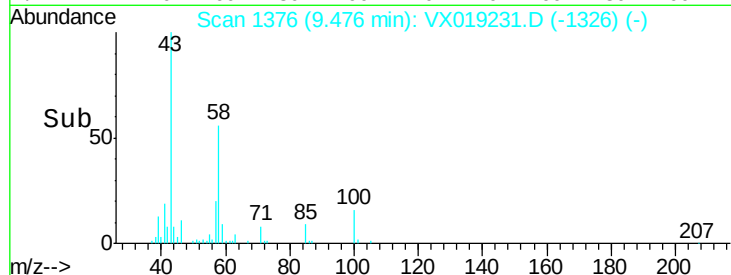
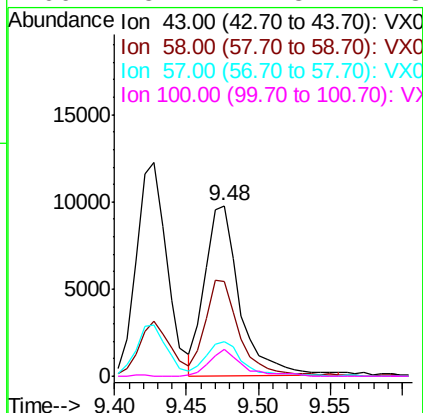
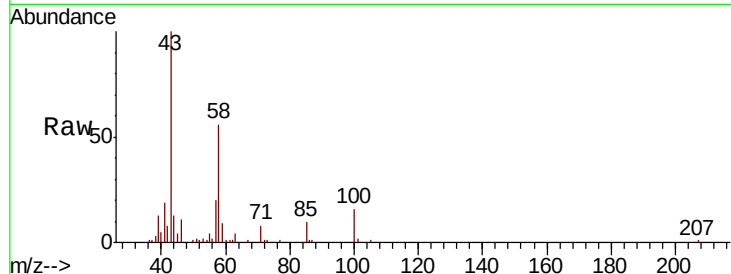
#48
2-Hexanone
Concen: 5.876 ug/L
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion	43	Resp	16380
Ion	Ratio	Lower	Upper
43	100		
58	54.8	48.2	72.2
57	20.9	17.1	25.7
100	15.1	11.8	17.8

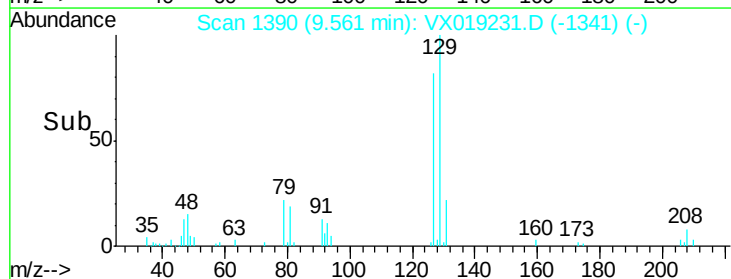
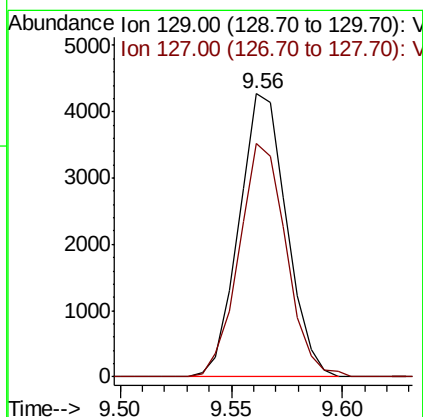
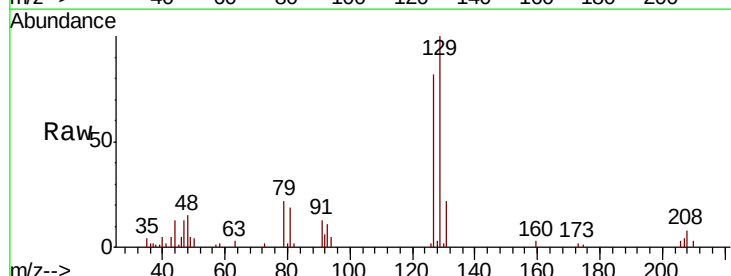
Manual Integrations
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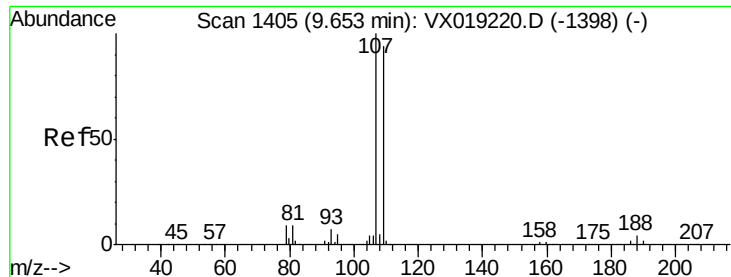
MMDadoda
11/5/2020 10:35:40 AM



#49
Dibromochloromethane
Concen: 2.048 ug/L
RT: 9.56 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion	129	Resp	6367
Ion	Ratio	Lower	Upper
129	100		
127	82.4	54.0	100.2





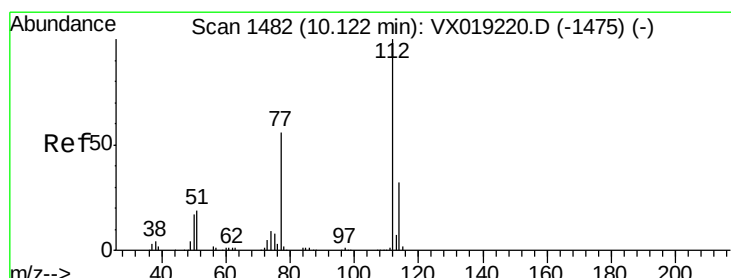
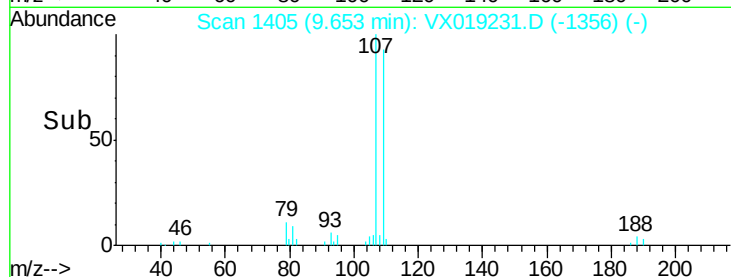
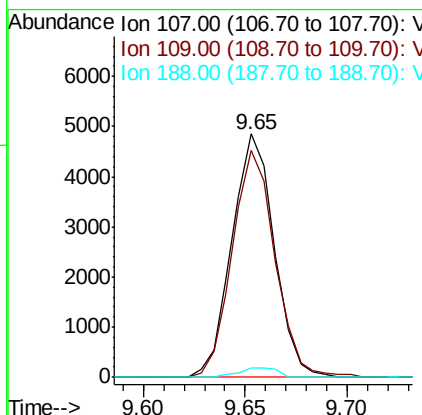
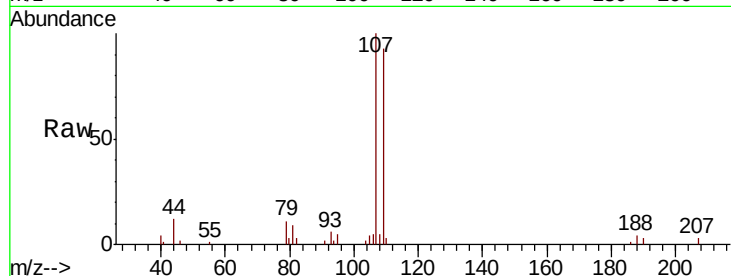
#50
1,2-Dibromoethane
Concen: 2.347 ug/L
RT: 9.65 min Scan# 1405
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	68.1	126.5
188	3.9	3.0	4.4

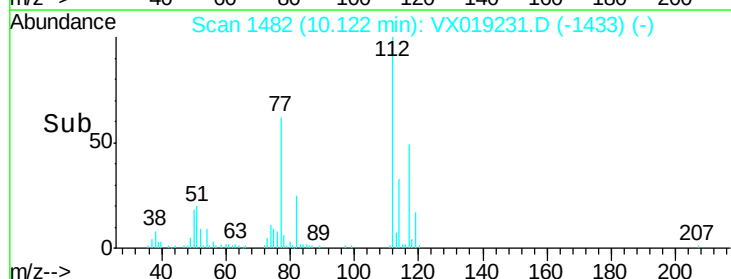
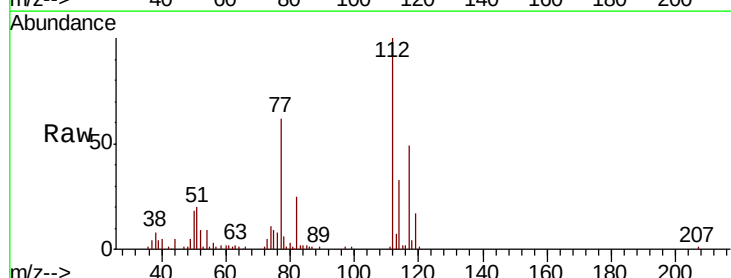
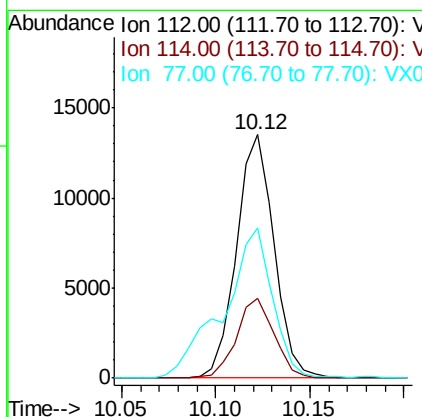
Manual Integrations
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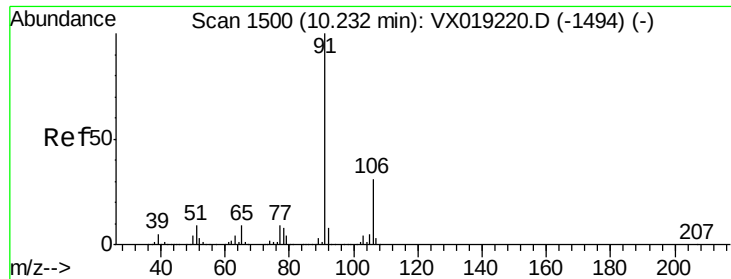
MMDadoda
11/5/2020 10:35:40 AM



#51
Chlorobenzene
Concen: 2.363 ug/L
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.0	22.2	41.2
77	61.6	46.2	69.4





#52

Ethylbenzene

Concen: 2.287 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion: 91 Resp: 31322

Ion Ratio Lower Upper

91 100

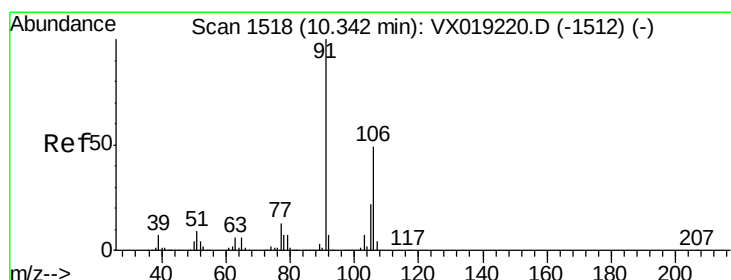
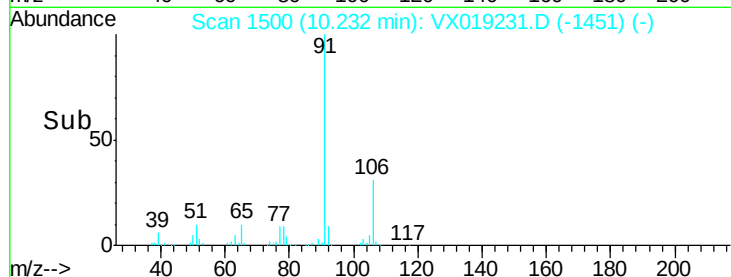
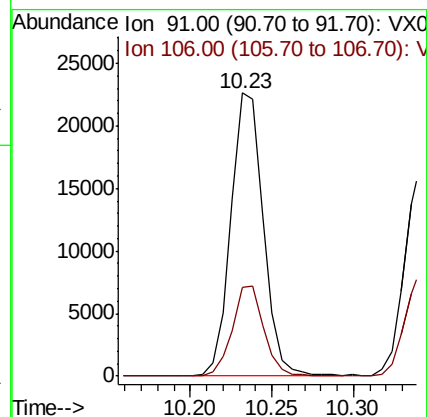
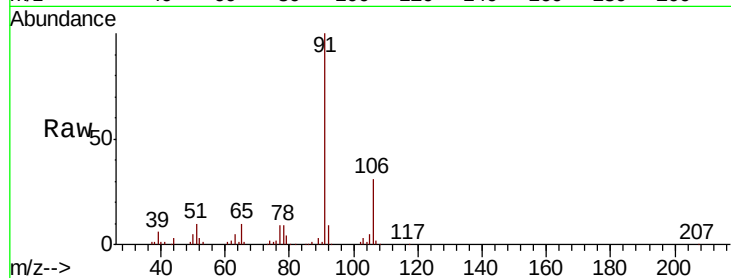
106 31.2 21.5 39.9

Manual Integrations

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MMDadoda

11/5/2020 10:35:40 AM



#53

m,p-Xylene

Concen: 2.267 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX019231.D

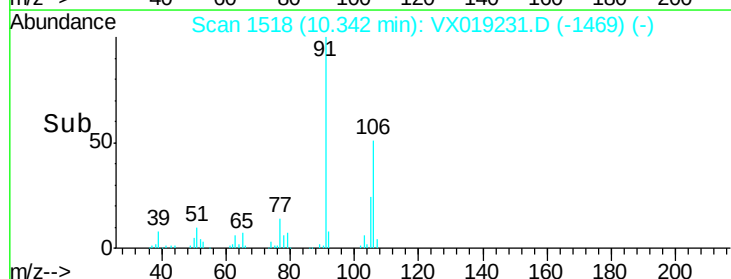
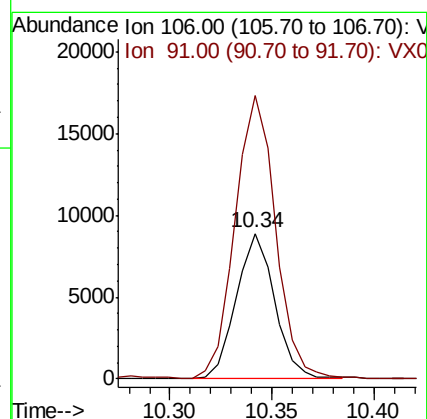
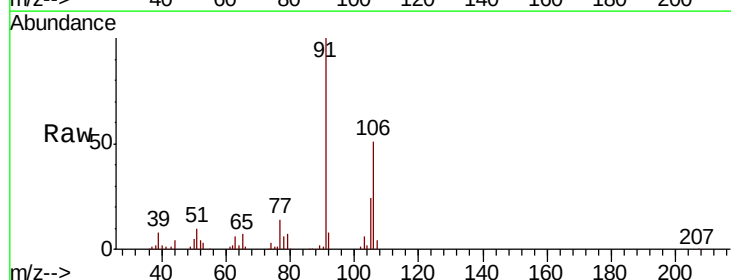
Acq: 03 Nov 2020 13:47

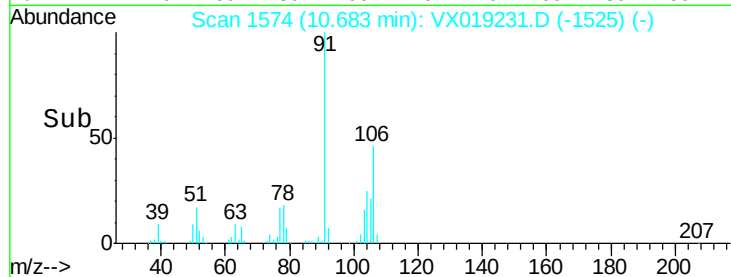
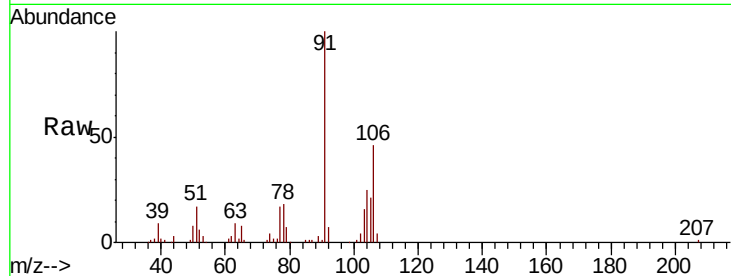
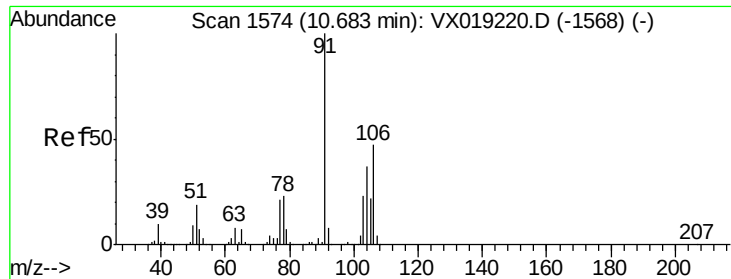
Tgt Ion: 106 Resp: 11665

Ion Ratio Lower Upper

106 100

91 194.8 144.2 267.8





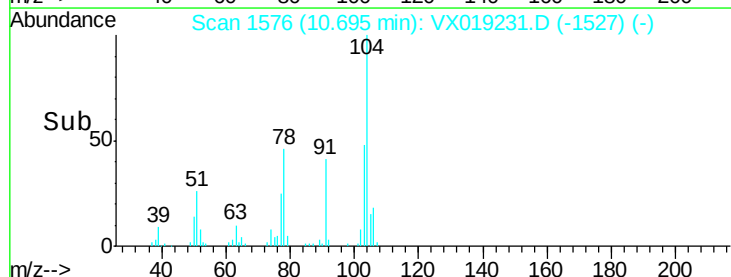
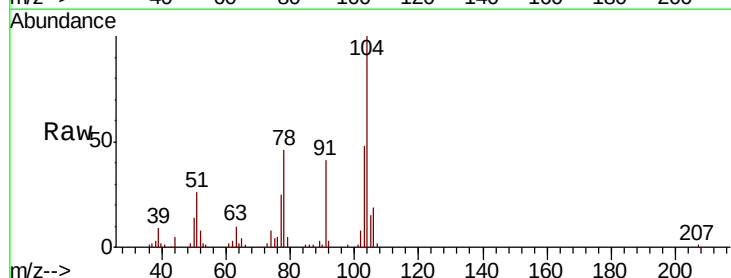
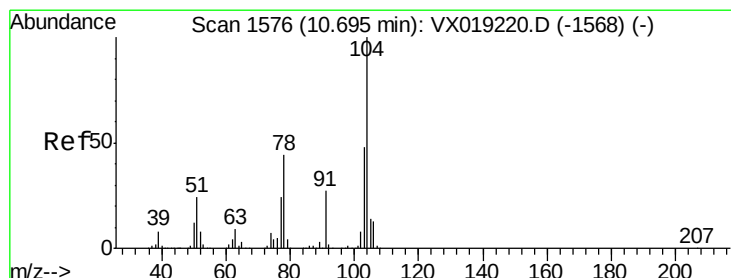
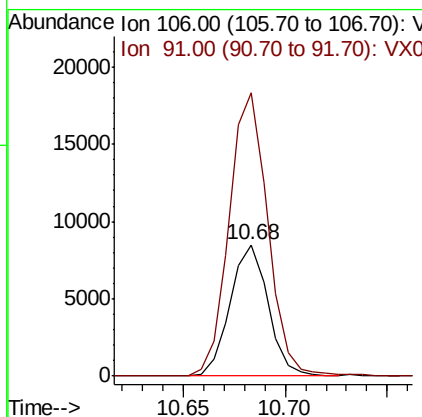
#54
o-Xylene
Concen: 2.197 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tot Ion:106 Resp: 10945
Ion Ratio Lower Upper
106 100
91 216.0 153.3 284.7

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

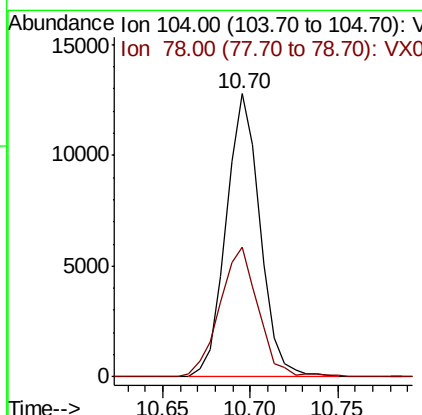
Manual Integrations
APPROVED

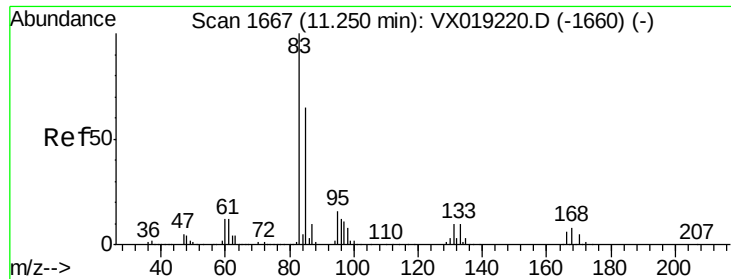
MMDadoda
11/5/2020 10:35:40 AM



#55
Styrene
Concen: 2.057 ug/L
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion:104 Resp: 17285
Ion Ratio Lower Upper
104 100
78 46.0 30.9 57.5





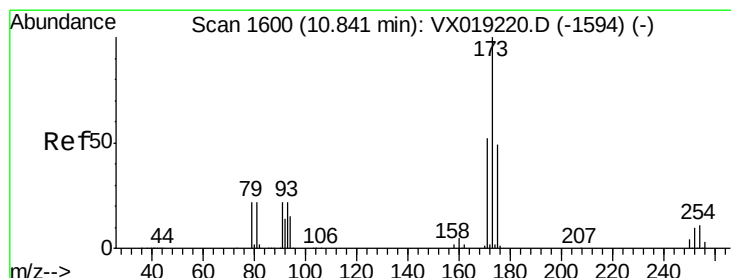
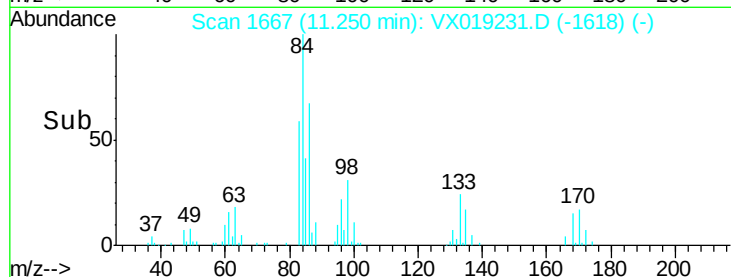
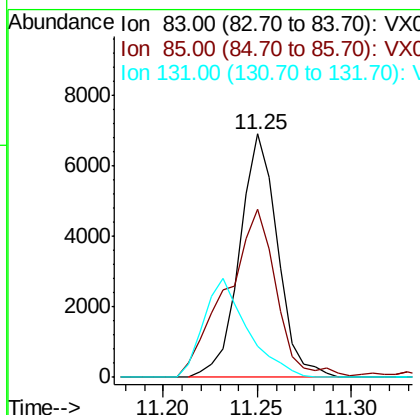
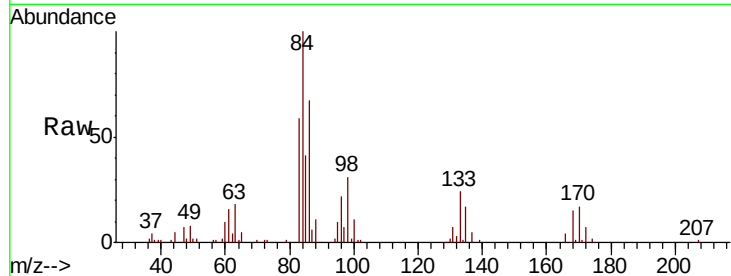
#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.485 ug/L
 RT: 11.25 min Scan# 1667
 Delta R.T. 0.00 min
 Lab File: VX019231.D
 Acq: 03 Nov 2020 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
83	100		
85	69.2	45.9	85.3
131	12.8	7.7	11.5

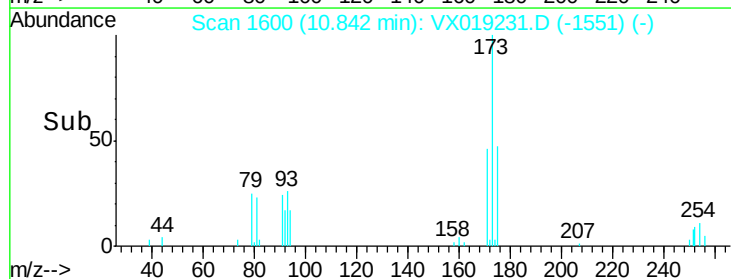
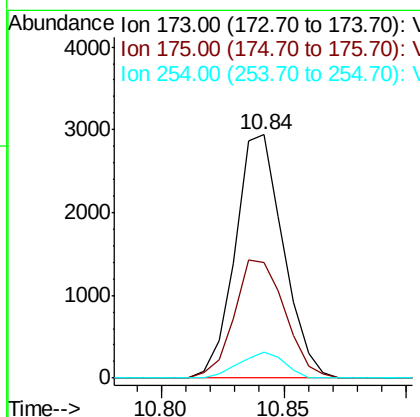
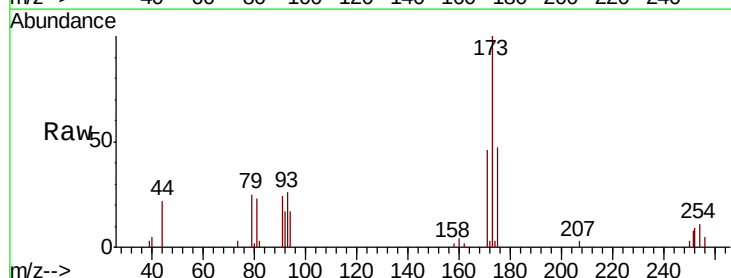
Manual Integrations
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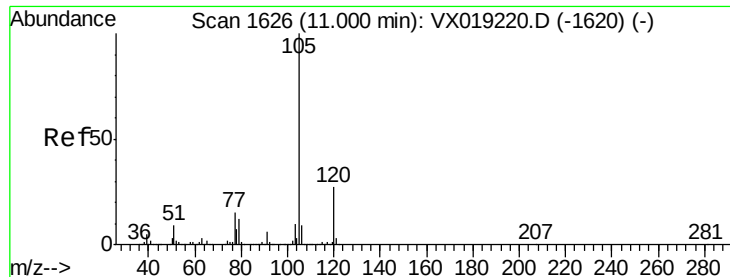
MMDadoda
 11/5/2020 10:35:40 AM



#59
 Bromoform
 Concen: 2.051 ug/L
 RT: 10.84 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VX019231.D
 Acq: 03 Nov 2020 13:47

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.9	39.7	59.5
254	9.8	8.2	12.4





#60

Isopropylbenzene

Concen: 2.385 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

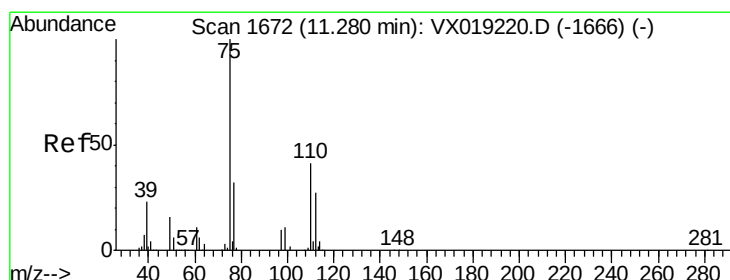
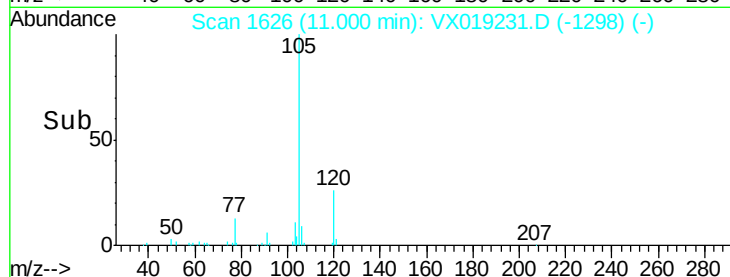
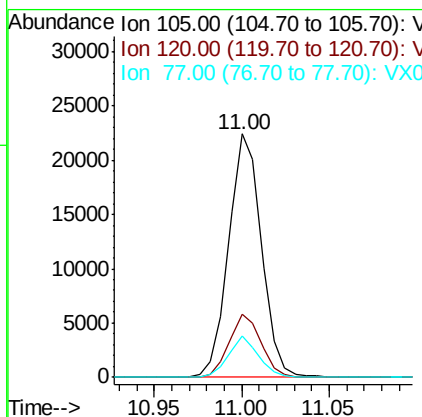
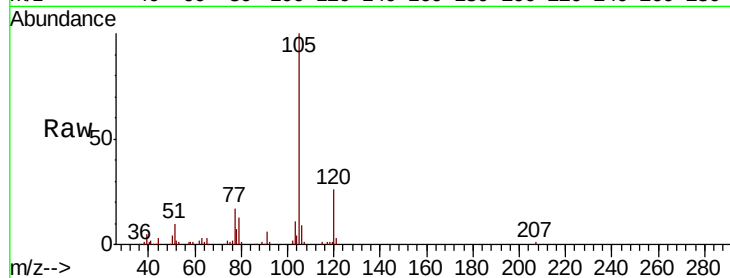
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	105	Resp:	29222
Ion Ratio	Lower	Upper	
105	100		
120	25.3	21.1	31.7
77	15.5	12.6	19.0

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#61

1,2,3-Trichloropropane

Concen: 2.578 ug/L

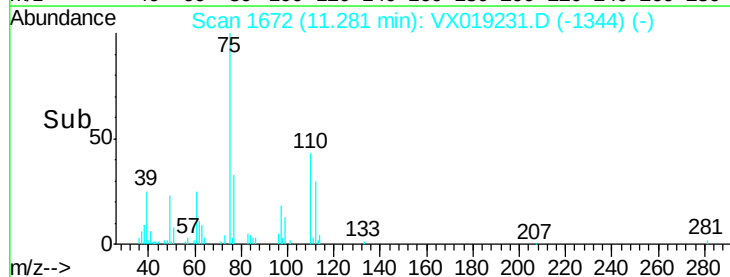
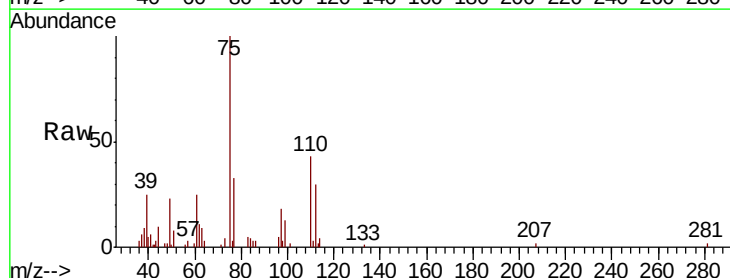
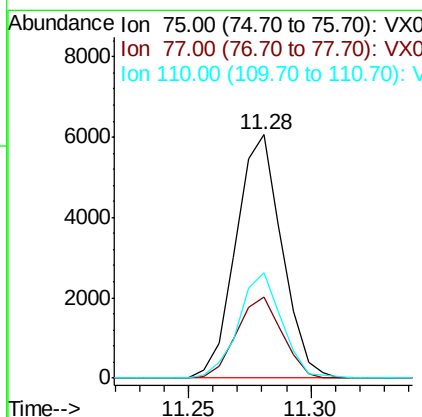
RT: 11.28 min Scan# 1672

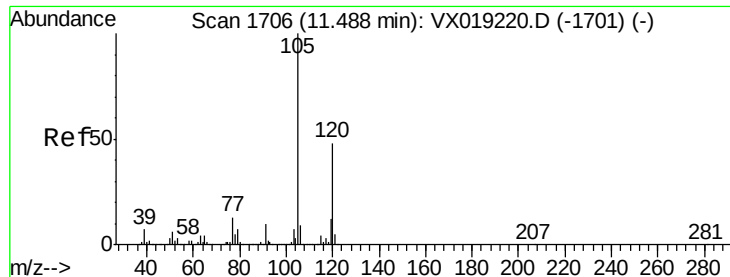
Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Tgt Ion:	75	Resp:	7926
Ion Ratio	Lower	Upper	
75	100		
77	32.8	25.4	38.0
110	40.5	32.2	48.2





#62

1,3,5-Trimethylbenzene

Concen: 2.249 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:105 Resp: 22662

Ion Ratio Lower Upper

105 100

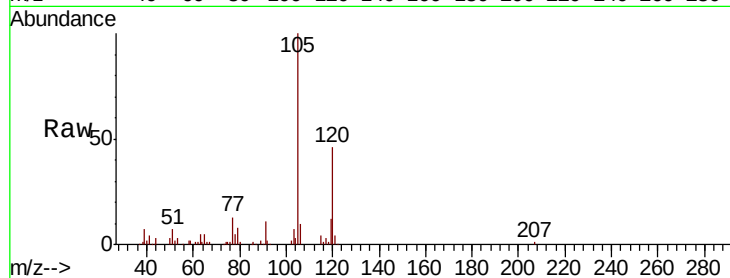
120 46.0 38.8 58.2

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.49

20000

15000

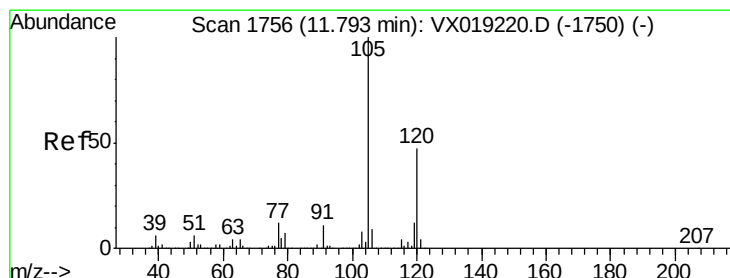
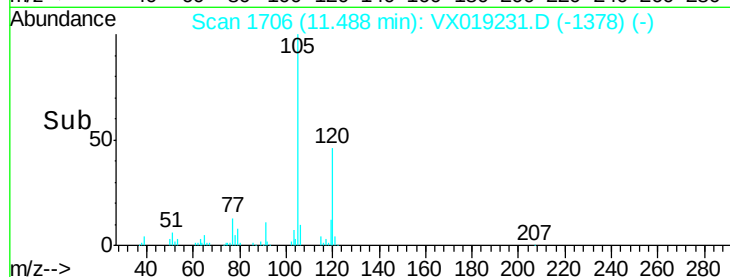
10000

5000

0

11.45 11.50 11.55

Time-->



#63

1,2,4-Trimethylbenzene

Concen: 2.304 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX019231.D

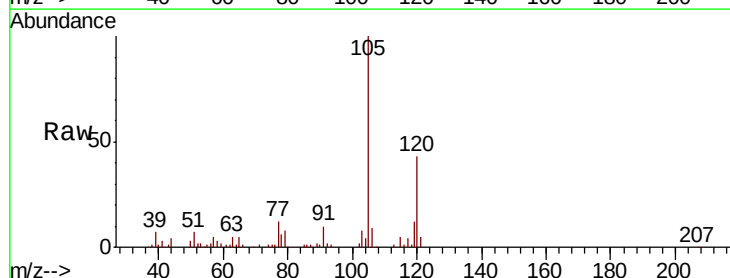
Acq: 03 Nov 2020 13:47

Tgt Ion:105 Resp: 21967

Ion Ratio Lower Upper

105 100

120 43.5 36.0 54.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.79

20000

15000

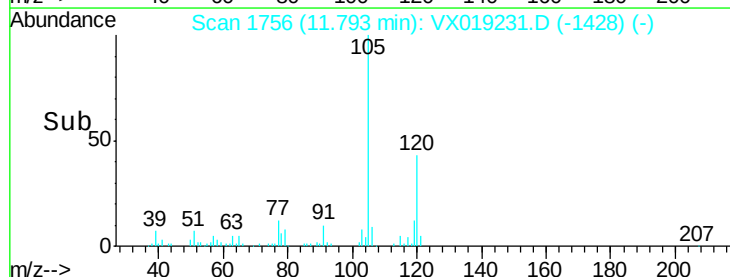
10000

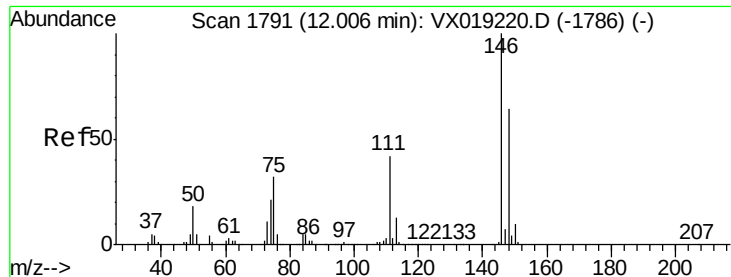
5000

0

11.75 11.80 11.85

Time-->





#64

1,3-Dichlorobenzene

Concen: 2.314 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

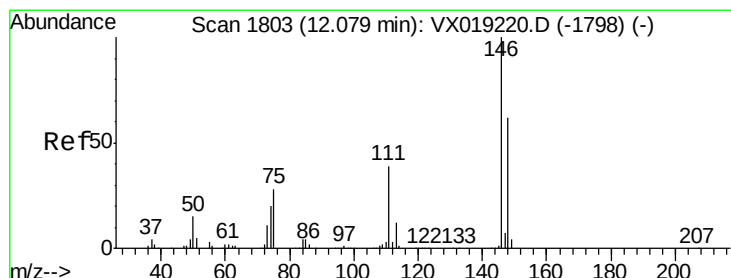
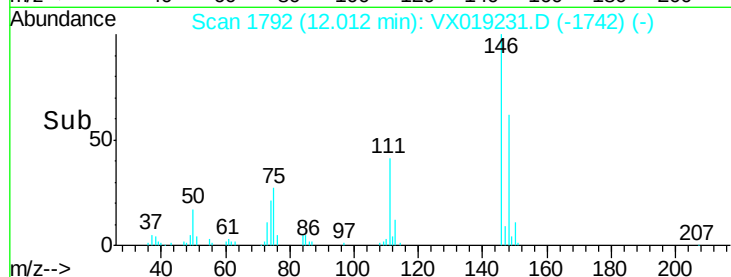
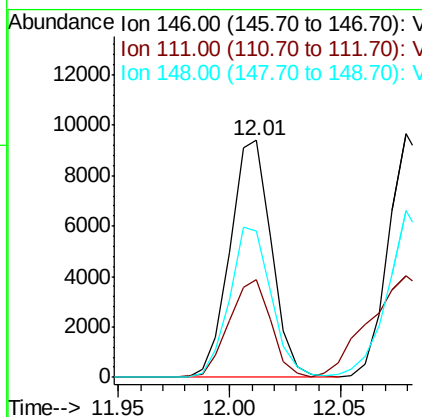
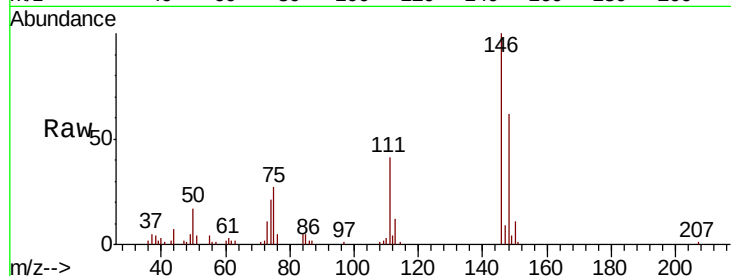
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	146	Resp:	12241
Ion Ratio	Lower	Upper	
146	100		
111	41.2	29.7	55.1
148	61.9	44.5	82.7

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#65

1,4-Dichlorobenzene

Concen: 2.317 ug/L

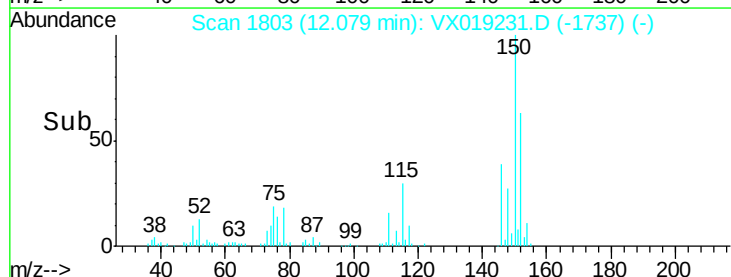
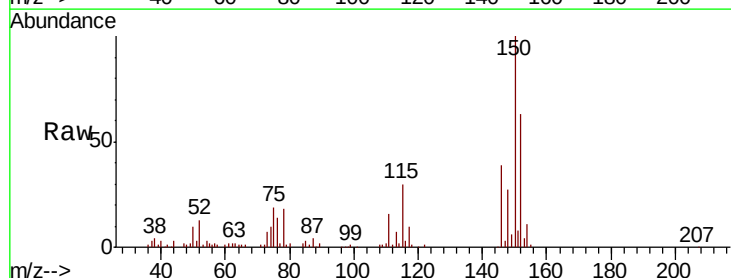
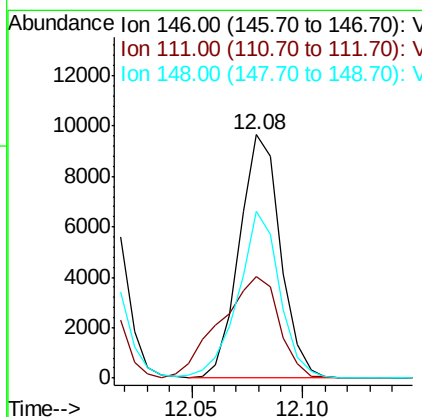
RT: 12.08 min Scan# 1803

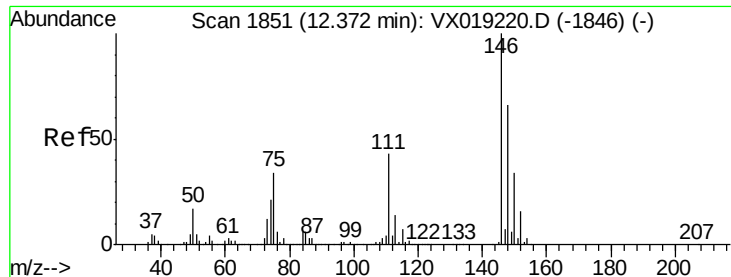
Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Tgt Ion:	146	Resp:	12435
Ion Ratio	Lower	Upper	
146	100		
111	41.8	28.1	52.3
148	68.7	43.8	81.4





#67

1,2-Dichlorobenzene

Concen: 2.401 ug/L

RT: 12.37 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Instrument :

MSVOA_X

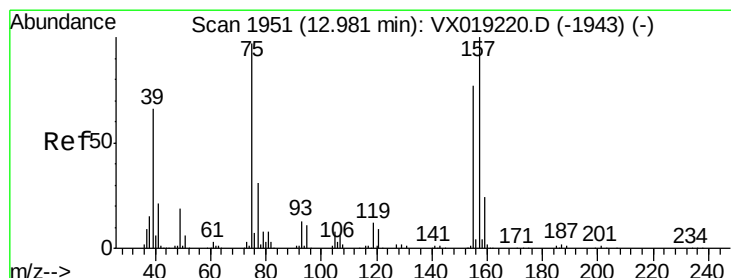
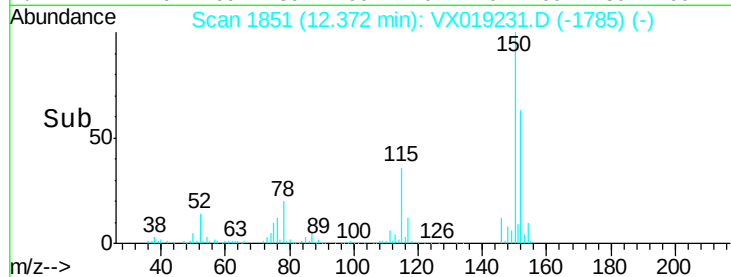
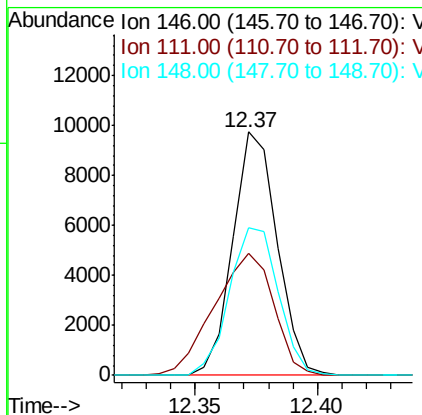
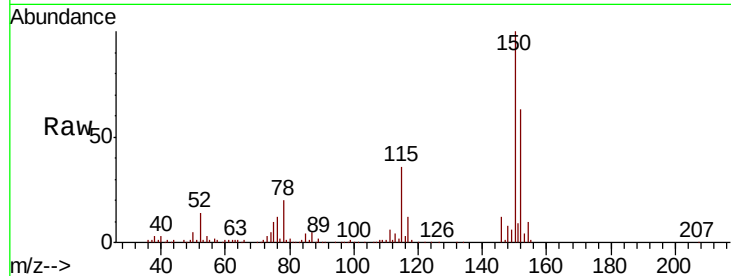
ClientSampleId :

MDL-ME-SOIL-04

Tot Ion:	146	Resp:	12296
Ion Ratio	Lower	Upper	
146	100		
111	50.0	35.9	53.9
148	60.9	52.2	78.4

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#68

1,2-Dibromo-3-chloropropane

Concen: 2.119 ug/L

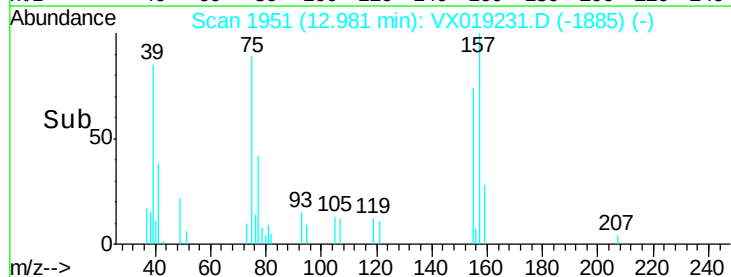
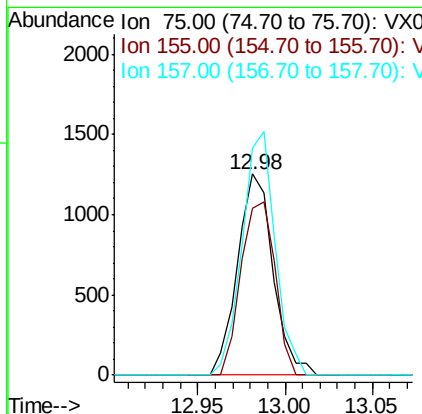
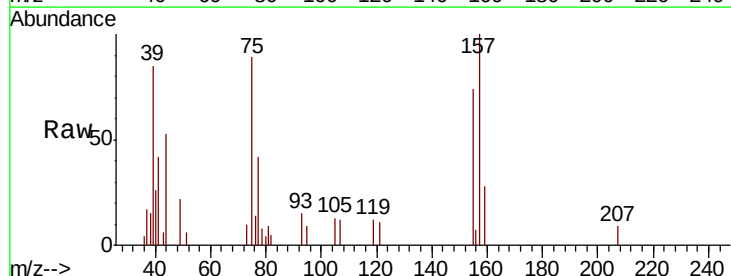
RT: 12.98 min Scan# 1951

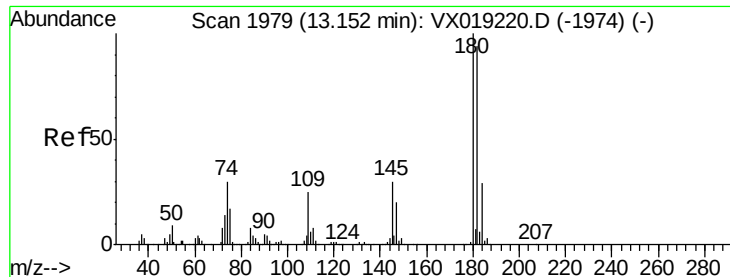
Delta R.T. 0.00 min

Lab File: VX019231.D

Acq: 03 Nov 2020 13:47

Tgt Ion:	75	Resp:	1774
Ion Ratio	Lower	Upper	
75	100		
155	83.3	65.8	98.8
157	112.9	82.6	123.8





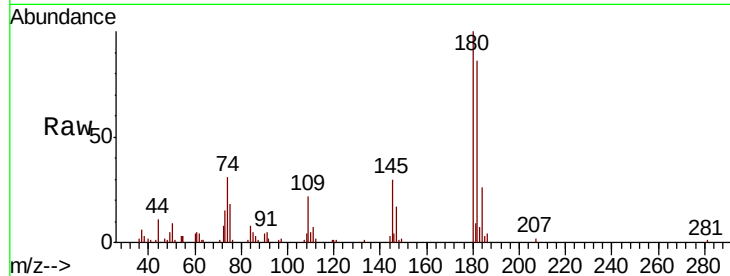
#69
 1,3,5-Trichlorobenzene
 Concen: 2.250 ug/L
 RT: 13.15 min Scan# 1979
 Delta R.T. 0.00 min
 Lab File: VX019231.D
 Acq: 03 Nov 2020 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.8	78.8	118.2
184	28.6	25.2	37.8
145	31.6	25.8	38.6

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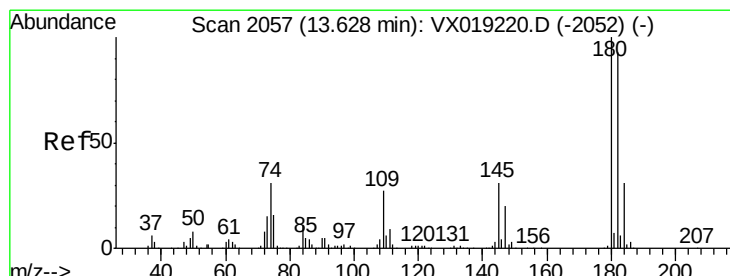
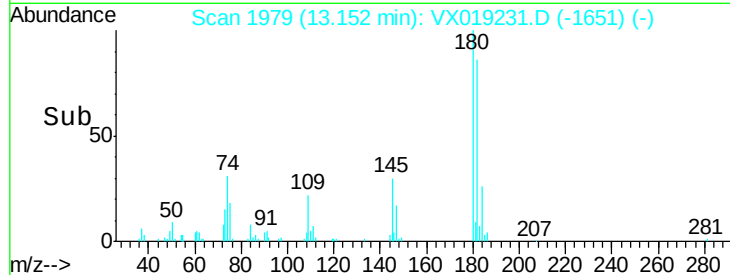
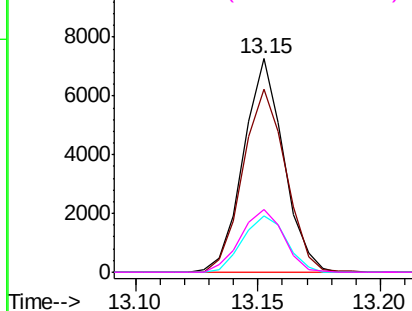
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

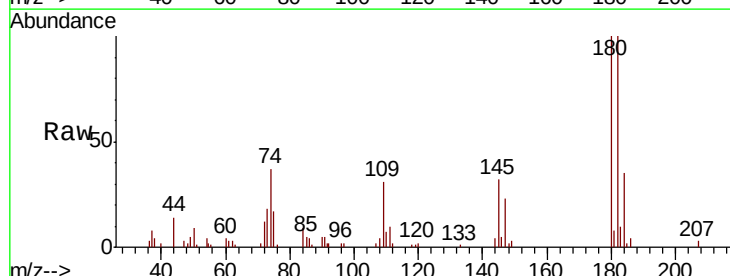
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 2.194 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX019231.D
 Acq: 03 Nov 2020 13:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	74.6	111.8
145	31.1	25.4	38.0

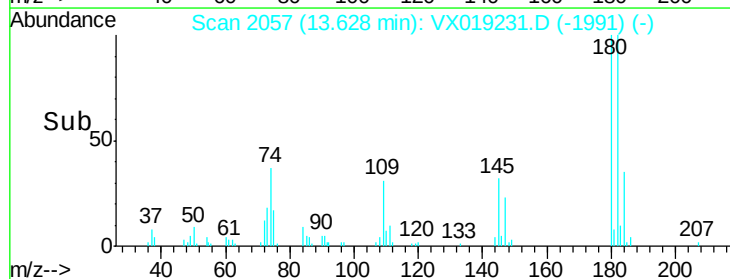
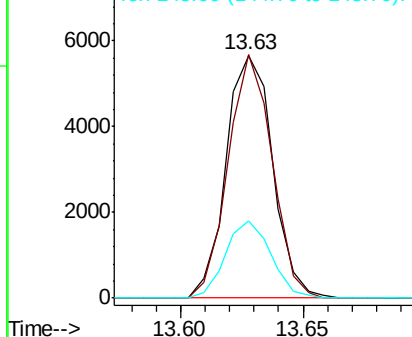


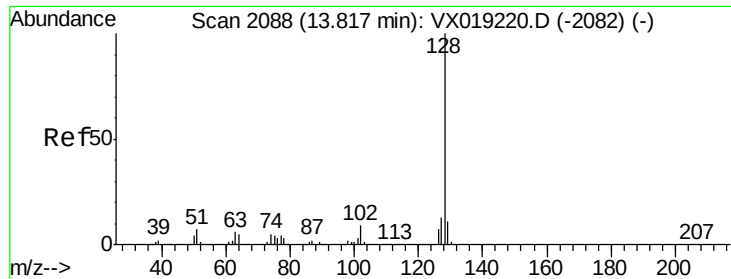
Abundance

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





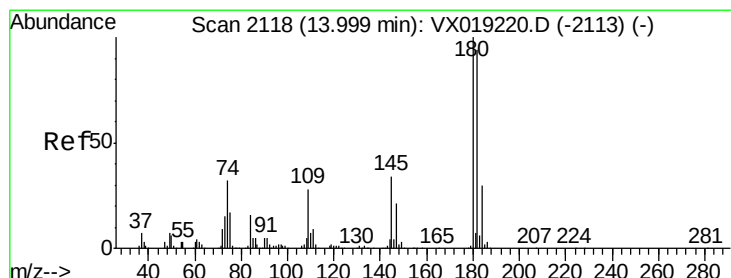
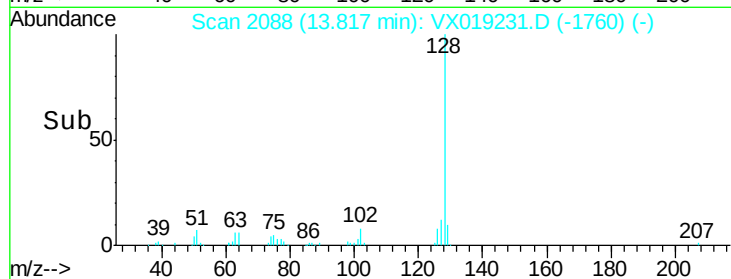
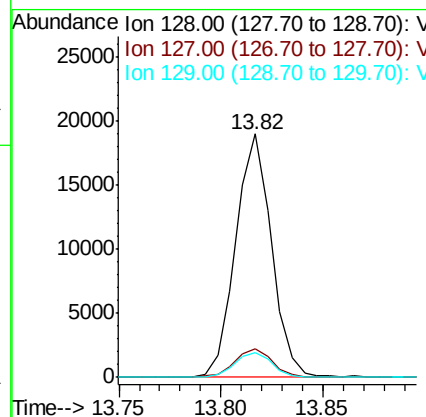
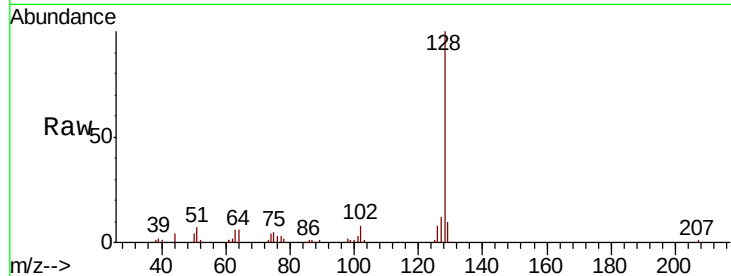
#71
Naphthalene
Concen: 2.088 ug/L
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Instrument :
MSVOA_X
ClientSampleId :
MDL-ME-SOIL-04

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.1	15.1
129	10.5	8.5	12.7

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#72
1,2,3-Trichlorobenzene
Concen: 2.236 ug/L
RT: 14.00 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VX019231.D
Acq: 03 Nov 2020 13:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.3	112.9
145	32.9	27.1	40.7

